



**Hewlett Packard
Enterprise**

HPE Networking product portfolio

HPE is changing the rules of networking with a full portfolio of standards-based products, integrated solutions and services developed specifically to solve the complexities of the extended enterprise, while enabling the digital workplace.



HPE FlexFabric 12908E
Switch Chassis



HPE Altoline
6960 Switch



Aruba 3810 Switch



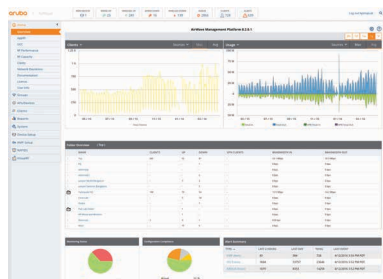
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1920-24G-PoE+



Aruba 5400R Switch



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Aruba AirWave

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HPE Networking Warranty

HPE Networking Warranty

Services for HPE networking products

HPE Network Services





Our end-to-end product portfolio spans the access layer and the data center. Based on a history of innovation, this portfolio redefines the concepts of networking away from the fixed, static client-server model of the past decade, to a software-based approach that enables seamless and secure access to cloud-based apps from mobile devices. The portfolio provides the scale and flexibility for the most demanding data centers, the intelligence and context-aware attributes needed for the digital workplace, with the simplicity and ease of operations purpose designed for the smallest of businesses. The results are dramatically improved productivity and lower operational costs.

Data Center Networking

HPE FlexFabric

Our data center networking products take advantage of and are fully interoperable with open industry standards, and offer reliable and automated connectivity. They serve traditional data center environments while meeting the demands of web-scale data centers with open and software-defined infrastructures.

Modular Core, aggregation switches		Height (RU)	Module slots (max)	10/100/1000 ports (max)	1/10GbE ports (max)	40GbE ports (max)	100GbE ports (max)	Switching capacity
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HPE FlexFabric 12900 Switch Series								
 	HPE FlexFabric 12916 Switch AC Chassis (JG632A)	23	16	768	768/1536*	384	128	30.7 Tbps
	HPE FlexFabric 12910 Switch AC Chassis (JG619A)	21	10	480	480/960*	240	80	19.2 Tbps
	HPE FlexFabric 12916E Switch Chassis (JH103A)	21	16	768	768/2304*	576	128	46 Tbps
	HPE FlexFabric 12908E Switch Chassis (JH255A)	12	8	384	384/1152*	288	64	23 Tbps
	HPE FlexFabric 12904E Switch Chassis (JH262A)	6	4	192	192/576*	144	32	11.5 Tbps

HPE FlexFabric 12900 Switch Series at a glance

Next-generation modular data center core switches designed to support virtualized data centers and the evolving needs of private and public cloud deployments. Delivers unprecedented levels of performance, buffering, scale, and availability with high-density 10, 40, and 100GbE connectivity. Software-defined networking (SDN) enabled with OpenFlow 1.3, full Layer 2 and 3 features, including advanced features such as Virtual Extensible LAN (VXLAN), Transparent Interconnection of Lots of Links (TRILL), and Intelligent Resilient Framework (IRF) that provide the ability to build large, resilient switching fabrics. Also supports fully redundant and hot-swappable components to complement its other enterprise-class capabilities.

* Using 40GbE to 10GbE splitter cables

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 12900 Switch Series

Modules

- HPE FlexFabric 12900 48-port GbE SFP FX Module (JH241A)
- HPE FlexFabric 12900 48-port 10/100/1000BASE-T FX Module (JH242A)
- HPE FlexFabric 12916 Main Processing Unit (JG634A)
- HPE FlexFabric 12910 Main Processing Unit (JG621A)
- HPE FlexFabric 12900E Main Processing Unit (JH104A)
- HPE FlexFabric 12904E Main Processing Unit (JH263A)
- HPE FlexFabric 12916E 10.0Tbps Type F Fabric Module (JH252A)
- HPE FlexFabric 12908E 5.0Tbps Type F Fabric Module (JH257A)
- HPE FlexFabric 12904E 2.5Tbps Type F Fabric Module (JH264A)
- HPE FlexFabric 12916 6.14Tbps Type B Fabric Module (JG636A)
- HPE FlexFabric 12916 2.56Tbps Type S Fabric Module (JG854A)
- HPE FlexFabric 12910 3.84Tbps Type B Fabric Module (JG623A)
- HPE FlexFabric 12910 1.92Tbps Type A Fabric Module (JG622A)
- HPE FlexFabric 12900 4-port 100GbE CFP EC Module (JG858A)
- HPE FlexFabric 12900 8-port 100GbE CXP FX Module (JH006A)
- HPE FlexFabric 12900 12-port 40GbE QSFP+ FX Module (JH005A)

- HPE FlexFabric 12900 12-port 40GbE QSFP+ EC Module (JG857A)
- HPE FlexFabric 12900 16-port 40GbE QSFP+ EA Module (JG625A)
- HPE FlexFabric 12900 24-port 40GbE QSFP+ FX Module (JG889B)
- HPE FlexFabric 12900 24-port 40GbE QSFP+ FE Module (JH250A)
- HPE FlexFabric 12900 36-port 40GbE QSFP+ FX Module (JH045A)
- HPE FlexFabric 12900 48-port 1/10GbE SFP+ FE Module (JH249A)
- HPE FlexFabric 12900 48-port 1/10GbE SFP+ FX Module (JG888B)
- HPE FlexFabric 12900 48-port 1/10GBASE-T FX Module (JH007A)
- HPE FlexFabric 12900 48-port 1/10GbE SFP+ EC Module (JG626A)
- HPE FlexFabric 12900 48-port GbE SFP EB Module (JG855A)
- HPE FlexFabric 12900 48-port 10/100/1000BASE-T EB Module (JG856A)
- HPE FlexFabric 12900 48-port 10GbE SFP+ EA Module (JG624A)

Power supply

- HPE 12500 2000W AC Power Supply (JF429A)
- HPE FlexFabric 12900E 2400W AC Power Supply Unit (JH108A)

Mounting kit

- HPE X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)

Fan trays

- HPE FlexFabric 12916 Spare Top Fan Tray Assembly (JG637A)

- HPE FlexFabric 12916 Spare Bottom Fan Tray Assembly (JG638A)
- HPE FlexFabric 12916E Fan Tray Assembly (JH106A)
- HPE FlexFabric 12908E Fan Tray Assembly (JH258A)
- HPE FlexFabric 12904E Fan Tray Assembly (JH265A)
- HPE FlexFabric 12916 Optional Air Filter (JG877A)
- HPE FlexFabric 12910 Spare Fan Assembly (JG631A)
- HPE FlexFabric 12910 Optional Air Filter (JG876A)

Adapter

- HPE FlexFabric 12900E LPU Adapter (JH107A)

Transceivers and cables


- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexFabric 12900 Switch Series. For details, refer to the [HPE FlexFabric 12900 TAA-compliant Switch Series data sheet](#)

Data Center Networking

HPE FlexFabric

Modular Core, aggregation switches (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	SFP (1000BASE-X) (max)	10GbE ports (max)	40GbE ports (max)	100GbE ports (max)	Switching capacity
HPE FlexFabric 12500 Switch Series								
 HPE FlexFabric 12518 AC Switch Chassis (JF430C)	38	18	864	864	864/1152*	288	72	13.32 Tbps
HPE FlexFabric 12518 DC Switch Chassis (JC653A)	38	18	864	864	864/1152*	288	72	13.32 Tbps
HPE FlexFabric k 12508 AC Switch Chassis (JF431C)	22	8	384	384	384/512*	128	32	6.12 Tbps
HPE FlexFabric k 12508 DC Switch Chassis (JC652A)	22	8	384	384	384/512*	128	32	6.12 Tbps
HPE FlexFabric 12504 AC Switch Chassis (JC654A)	10	4	192	192	192/256*	64	16	3.24 Tbps
HPE FlexFabric 12504 DC Switch Chassis (JC655A)	10	4	192	192	192/256*	64	16	3.24 Tbps
HPE FlexFabric 12518E AC Switch Chassis (JG784A)	38	18	864	864	864	288	72	24.3 Tbps
HPE FlexFabric 12518E DC Switch Chassis (JG785A)	38	18	864	864	864	288	72	24.3 Tbps
HPE FlexFabric 12508E AC Switch Chassis (JG782A)	22	8	384	384	384	128	32	10.8 Tbps
HPE FlexFabric 12508E DC Switch Chassis (JG783A)	22	8	384	384	384	128	32	10.8 Tbps



HPE FlexFabric 12500 Switch Series at a glance

Designed for high performance with non-blocking and distributed CLOS architecture, these switches deliver up to 24.3 Tbps switching capacity and 10.8 Bpps throughput with up to 400 Gbps per line card slot. Also support energy-efficiency features that drive down operational expenses and are ideal for organizations contemplating large-scale data center consolidations, business continuity and disaster recovery sites, metropolitan area network deployments, and other applications requiring a robust, reliable, and highly available switching platform.

*Using 40GbE to 10GbE splitter cables

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 12500 Switch Series

Modules

- HPE FlexFabric 12500 Type A Main Processing Unit with Comware v7 Operating System (JG497A)
- HPE FlexFabric 12500E Main Processing Unit (JG802A)
- HPE FlexFabric 12500 Main Processing Unit (JC072B)
- HPE FlexFabric 12518 G2 Fabric Module (JC657A)
- HPE FlexFabric 12518 Fabric Module (JC066A)
- HPE FlexFabric 12518E Fabric Module (JG800A)
- HPE FlexFabric 1250x G2 Fabric Module (JC658A)
- HPE FlexFabric 12508 Fabric Module (JC067B)
- HPE FlexFabric 12508E Fabric Module (JG798A)
- HPE FlexFabric 12500 4-port 100GbE CFP FD Module (JG786A)
- HPE FlexFabric 12500 4-port 100GbE CFP FG Module (JG788A)
- HPE FlexFabric 12500 8-port 10GbE XFP LEB Module (JC073B)
- HPE FlexFabric 12500 8-port 10GbE XFP LEC Module (JC068B)
- HPE FlexFabric 12500 8-port 10GbE SFP+ LEB Module (JC780A)
- HPE FlexFabric 12500 8-port 10GbE SFP+ LEC Module (JC781A)
- HPE FlexFabric 12500 8-port 10GbE SFP+ LEB Module (JC659A)
- HPE FlexFabric 12500 16-port 10GbE SFP+ LEB Module (JC782A)
- HPE FlexFabric 12500 16-port 10GbE SFP+ LEC Module (JC783A)
- HPE FlexFabric 12500 16-port 40GbE QSFP+ FD Module (JG790A)
- HPE FlexFabric 12500 32-port 10GbE SFP+ REB Module (JC064B)
- HPE FlexFabric 12500 32-port 10GbE SFP+ REC Module (JC476B)
- HPE FlexFabric 12500 40-port 1/10GbE SFP+ FD Module (JG792A)
- HPE FlexFabric 12500 40-port 1/10GbE SFP+ FG Module (JG794A)
- HPE FlexFabric 12500 48-port 1/10GbE SFP+ FD Module (JG796A)
- HPE FlexFabric 12500 48-port Gig-T LEB Module (JC074B)
- HPE FlexFabric 12500 48-port Gig-T LEC Module (JC065B)
- HPE FlexFabric 12500 48-port GbE SFP LEB Module (JC075B)
- HPE FlexFabric 12500 48-port GbE SFP LEC Module (JC069B)

- HPE FlexFabric 12500 48-port GbE SFP LEB Module (JC660A)
- HPE FlexFabric 12500 Power Monitor Module (JC502A)
- HPE FlexFabric 12500E Spare Power Monitor Module (JG804A)

Appliance

- HPE FlexFabric 12500 20Gbps VPN Firewall Module (JG371A)

AC power supplies

- HPE FlexFabric 12500 AC Power Entry Module (JF426A)
- HPE FlexFabric 12500 2000W AC Power Supply (JF429A)

DC power supplies

- HPE FlexFabric X210 10-meter JG Connector to Bare 6AWG 37800 Watt 72V DC Power Cable (JG280A)
- HPE FlexFabric 12500 1800W DC Power Supply (JC651A)
- HPE FlexFabric 12508 Top and Bottom Cable Guides for DC Powered Switch (JC787A)

Fan trays

- HPE FlexFabric 12518 Fan Assembly (JC080A)
- HPE FlexFabric 12518 Optional Air Filter (JC083A)
- HPE FlexFabric 12518E Optional Air Filter (JG809A)
- HPE FlexFabric 12508 Fan Assembly (JC081A)
- HPE FlexFabric 12508 Optional Air Filter (JC082A)
- HPE FlexFabric 12500E Fan Tray Assembly (JG805A)
- HPE FlexFabric 12508E Optional Air Filter (JG808A)
- HPE FlexFabric 12504 Fan Assembly (JC664A)

Memory

- HPE FlexFabric 4GB Compact Flash Card (JG806A)
- HPE FlexFabric 4GB DDR3 SDRAM (JG807A)
- HPE FlexFabric 2GB Registered DDR2 SDRAM Memory (JC609A)
- HPE FlexFabric X600 1G Compact Flash Card (JC684A)
- HPE FlexFabric 12500 additional 1 GB SDRAM DDR2 (JC071A)

Mounting kit

- HPE FlexFabric X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)
- HPE FlexFabric 12518 Top and Bottom Cable Guides for AC Powered Switch (JC786A)
- HPE FlexFabric 12518 Top and Bottom Cable Guides for DC Powered Switch (JC788A)
- HPE FlexFabric 12518E Optional Extended Cable Guide for AC Powered Switch (JG831A)
- HPE FlexFabric 12518E Optional Extended Cable Guide for DC Powered Switch (JG833A)
- HPE FlexFabric 12508 Top and Bottom Cable Guides for AC Powered Switch (JC785A)
- HPE FlexFabric 12508 Top and Bottom Cable Guides for DC Powered Switch (JC787A)
- HPE FlexFabric 12508E Optional Extended Cable Guide for AC Powered Switch (JG830A)
- HPE FlexFabric 12508E Optional Extended Cable Guide for DC Powered Switch (JG832A)
- HPE FlexFabric 12500 Side Cable Management Guide (JC084A)

Monitor Module

- HPE FlexFabric 12500E Spare Power Monitor Module (JG804A)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexFabric 12500 Switch Series. For details, refer to **[HPE FlexFabric 12500 TAA-compliant Switch Series data sheet](#)**

Data Center Networking

HPE FlexFabric

Modular Core, aggregation switches (continued)		Height (RU)	Module slots (max)	1/10GBASE-T ports (max)	SFP (1000BASE-X) (max)	10GBASE-X (max)	QSFP+ 40GbE ports (max)	100GbE ports (max)	Switching capacity
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HPE FlexFabric 11900 Switch Series



HPE FlexFabric 11908-V Switch Chassis (JG608A)	20	8	192	384	384	64	16	7.7 Tbps
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HPE FlexFabric 11900 Switch Series at a glance
 High-performance data center aggregation switch that provides line-rate, high-density 10GbE and 40GbE connectivity designed for cost-effective end-of-row (EoR) and small core deployments. Latency as low as 3 µs and ready for software-defined networking (SDN), support for full Layer 2 and 3 features, including advanced features like TRILL and IRF, which provides the ability to build large, resilient switching fabrics. Supports fully redundant and hot-swappable components to complement its other enterprise-class capabilities.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 12900 Switch Series

- Modules**
- HPE FlexFabric 11900 Main Processing Unit (JG609A)
 - HPE FlexFabric 11908 1.92Tbps Type D Fabric Module (JG610A)
 - HPE FlexFabric 11900 2-port 100GbE CFP SE Module (JG918A)
 - HPE FlexFabric 11900 4-port 40GbE QSFP+ SF Module (JG613A)
 - HPE FlexFabric 11900 8-port 40GbE QSFP+ SF Module (JG614A)
 - HPE FlexFabric 11900 24-port 1/10GBASE-T SF Module (JG615A)
 - HPE FlexFabric 11900 32-port 10GbE SFP+ SF Module (JG611A)
 - HPE FlexFabric 11900 48-port 10GbE SFP+ SF Module (JG612A)

- Power supplies**
- HPE FlexFabric 11900 2500W AC Power Supply (JG616A)
 - HPE FlexFabric 11900 2400W DC Power Supply (JG617A)
- Fan options**
- HPE FlexFabric 11908-V Spare Fan Assembly (JG618A)
- Mounting kit**
- HPE X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)

- Power cords**
- HPE 10500 -48V 3m DC Power Supply Cable (JG390A)
 - HPE 10500 -48V 15m DC Power Supply Cable (JG391A)
- Transceivers**
- See pages 83–89 for the Networking Transceiver Matrix.

Height (RU)	Module slots (max)	1/10GbE SFP+ ports (max)	10GbE SFP+ ports	QSFP+ 40GbE ports (max)	100GbE ports (max)	Switching capacity
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HPE FlexFabric 7900 Switch Series



HPE FlexFabric 7904 Switch Chassis (JG882A)	2	4	96	96/192*	48	8	3.8 Tbps
HPE FlexFabric 7910 Switch Chassis (JG841A)	5	10	240	240/480*	120	20	9.6 Tbps

HPE FlexFabric 7900 Switch Series at a glance
 A next-generation compact modular data center core switch designed to support virtualized data centers and the evolutionary needs of private and public cloud deployments. Delivers unprecedented levels of performance, buffering, scale, and availability with high-density 10GbE and 40GbE interfaces using only a fraction of the footprint used by traditional chassis. Support for full Layer 2 and 3 features, along with advanced data center features.

* Using 40GbE to 10GbE splitter cables

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 7900 Switch Series

- Modules**
- HPE FlexFabric 7910 7.2Tbps Fabric/Main Processing Unit (JG842A)
 - HPE FlexFabric 7910 2.4Tbps Fabric/Main Processing Unit (JH001A)
 - HPE FlexFabric 7900 2p 100GbE CXP/6p 40GbE QSFP+/4p 10GbE SFP+ FX Module (JH002A)
 - HPE FlexFabric 7900 12-port 40GbE QSFP+ FX Module (JG683B)
 - HPE FlexFabric 7900 24-port 1/10GbE SFP+ FX Module (JG845A)

- Power supply**
- HPE FlexFabric 7900 1800w AC Front (Port Side) to Back (Power Side) Airflow Power Supply Unit (JG840A)
- Fan trays**
- HPE FlexFabric 7904 front (Port side) to back (Power side) airflow Fan Tray (JG684A)
 - HPE FlexFabric 7910 Front (Port Side) to Back (Power Side) Airflow Fan Tray (JG843A)
 - HPE FlexFabric 7904 Back (Power Side) to Front (Port Side) Fan Tray (JG839A)

- Mounting and cable management**
- HPE X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)
 - HPE FlexFabric 7910 Bottom-Support Rails (JH042A)
 - HPE FlexFabric 7910 Cable Management Frame (JH041A)
- Transceivers**
- See pages 83–89 for the Networking Transceiver Matrix.

Data Center Networking

HPE FlexFabric

Top-of-rack network access switches

	Height (RU)	Module slots (max)	10GBASE-T ports (max)	10GbE or 4/8Gb FC ports (max)	1/10GbE SFP+ (max)	QSFP+ 40GbE ports (max)	Switching capacity
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HPE FlexFabric 5930 Switch Series



HPE FlexFabric 5930-32QSFP+ Switch (JG726A)	1	0	0	0	0	32	2.56 Tbps
HPE FlexFabric 5930-2 Slot+2QSFP+ Switch (JH178A)	1	2	48	48	48	18	1.44 Tbps
HPE FlexFabric 5930-4 Slot Switch (JH179A)	2	4	96	96	96	32	2.56 Tbps

HPE FlexFabric 5930 Switch Series at a glance
 The HPE FlexFabric 5930 Switch Series is a family of high performance and ultra-low-latency 10GbE and 40GbE top-of-rack (ToR) data center switches. Delivers hardware support for VXLAN, MACSec, TRILL, SPB, IPv4/IPv6, MPLS; ideal for network virtualization and multi-tenancy cloud environments. Choose from 5 different modules that include 24 x 1/10GbE SFP+ ports with 2 x 40GbE ports, 24 x 1/10GbE SFP+ MACSec ports with 2 x 40GbE ports, 100MbE/1GbE/10GbE Copper ports with 2 x 40GbE ports, 8 x 40GbE ports, and a 1/10GbE or 4/8Gbps Fibre Channel converged ports with 2 x 40GbE ports module.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

- | | | |
|---|--|---|
| <p>HPE FlexFabric 5930 Switch Series</p> <p>Modules</p> <ul style="list-style-type: none"> • HPE FlexFabric 5930 24p SFP+ and 2p QSFP+ Module (JH180A) • HPE FlexFabric 5930 24p SFP+ and 2p QSFP+ Module with MACSec (JH181A) • HPE FlexFabric 5930 24p 10GBase-T and 2p QSFP+ Module (JH182A) • HPE FlexFabric 5930 8-port OSFP+ Module (JH183A) • HPE FlexFabric 5930 24p CP and 2p QSFP+ Module (JH184A) | <p>Power supplies</p> <ul style="list-style-type: none"> • HPE FlexFabric 58x0AF 650W AC Power Supply (JC680A) • HPE FlexFabric 58x0AF 650W DC Power Supply (JC681A) <p>Fan trays</p> <ul style="list-style-type: none"> • HPE X711 Front (port side) to Back (power side) Airflow High Volume Fan Tray (JG552A) • HPE X712 Back (power side) to Front (port side) Airflow High Volume Fan Tray (JG553A) • HPE FlexFabric 5930-4Slt bck(pwr)-frt(prt) Fan Tray (JH185A) • HPE FlexFabric 5930-4Slt frt(prt)-bck(pwr) Fan Tray (JH186A) | <p>Transceivers and cables</p> <ul style="list-style-type: none"> • See pages 83–89 for the Networking Transceiver Matrix. <p>Note: TAA-compliant SKUs are available for the HPE FlexFabric 5930 Switch Series. For details, refer to the HPE FlexFabric 5930 TAA-compliant Switch Series data sheet.</p> |
|---|--|---|

	Height (RU)	Module slots (max)	10GBASE-T ports (max)	10GbE or 4/8Gb FC ports (max)	1/10GbE SFP+ (max)	QSFP+ 40GbE ports (max)	Switching capacity
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HPE FlexFabric 5920 Switch Series



HPE FlexFabric 5920AF-24XG Switch (JG296A)	1	0	0	0	24	0	480 Gbps
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HPE FlexFabric 5920 Switch Series at a glance
 High-performance 10GbE with large packet buffers top-of-rack (ToR) switch, dual internal AC or DC power supply, front-to-back or back-to-front airflow, full Layer 2 and Layer 3, IPv4/IPv6 dual-stack switch.



Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)



- | | | |
|---|--|--|
| <p>HPE FlexFabric 5920 Switch Series</p> <p>Power supplies</p> <ul style="list-style-type: none"> • HPE FlexFabric 58x0AF 650W AC Power Supply (JC680A) • HPE FlexFabric 58x0AF 650W DC Power Supply (JC681A) | <p>Fan trays</p> <ul style="list-style-type: none"> • HPE FlexFabric 5920AF-24XG Back (power side) to Front (port side) Airflow Fan Tray (JG297A) • HPE FlexFabric 5920AF-24XG Front (port side) to Back (power side) Airflow Fan Tray (JG298A) | <p>Transceivers and cables</p> <ul style="list-style-type: none"> • See pages 83–89 for the Networking Transceiver Matrix. |
|---|--|--|



Data Center Networking

HPE FlexFabric

Top-of-rack network access switches (continued)

	Height (RU)	10/100/1000 ports (max)	10GBASE-T ports (max)	10GbE or 4/8GbFC ports (max)	1/10GbE SFP+ (max)	QSFP+ 40GbE ports (max)	Switching capacity	
HPE FlexFabric 5900 Switch Series								
 	HPE FlexFabric 5900AF-48XG-4QSFP+ Switch (JC772A)	1	0	0	0	48	4	1.28 Tbps
	HPE FlexFabric 5900AF-48G-4XG-2QSFP+ Switch (JG510A)	1	48	0	0	4	2	336 Gbps
	HPE FlexFabric 5900AF-48XGT-4QSFP+ Switch (JG336A)	1	0	48	0	0	4	1.28 Tbps
HPE FlexFabric 5900 Switch Series at a glance High-density 10GbE with 40GbE uplink and ultra-low-latency Data Center Bridging (DCB)-enabled top-of-rack (ToR) switches, dual internal AC or DC power supply, front-to-back or back-to-front airflow, full Layer 2 and Layer 3, IPv4/IPv6 dual-stack switches.								

HPE FlexFabric 5900CP Switch Series								
 	HPE FlexFabric 5900CP-48XG-4QSFP+ Switch (JG838A)	1	0	0	48	48	4	1.28 Tbps
	HPE FlexFabric 5900CP Switch Series at a glance Provides a converged, top-of-rack, data center switch architecture that offers wire once for FCoE converged environments. Delivers versatile convergence for connecting FC, iSCSI and FC SANs with 48 converged ports that support 1/10GbE and 4/8 fiber channel.							

HPE FlexFabric 5900v Virtual Switch Series								
 	HPE FlexFabric Virtual Switch 5900v for VMware ESX 5.x E-LTU (JG814AAE)	0	0	0	0	0	0	0
	HPE FlexFabric 5900v Virtual Switch Series at a glance Allows IEEE 802.1Qbg-compliant HPE FlexFabric devices to apply orchestrated network policies defined by IMC VAN Connection Manager to a VMware ESXi environment.							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

- HPE FlexFabric 5900, 5900CP and 5900v Switch Series**
- AC power supplies**
- HPE FlexFabric 58x0AF 650W AC Power Supply (JC680A)
 - HPE FlexFabric 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply (JG900A) (5900CP only)
- DC power supplies**
- HPE FlexFabric 58x0AF 650W DC Power Supply (JC681A)
 - HPE 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply (JG901A) (5900CP only)

- Fan trays**
- HPE FlexFabric 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
 - HPE FlexFabric 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)
 - HPE X711 Front (port side) to Back (power side) Airflow High Volume Fan Tray (JG552A) (5900CP only)
 - HPE X712 Back (power side) to Front (port side) Airflow High Volume Fan Tray (JG553A) (5900CP only)

- Licenses**
- HPE FlexFabric Virtual Switch 5900v for VMware® ESX 5.x E-LTU (JG814AAE)
 - HPE FlexFabric Virtual Switch Orchestration Software for 5900v VMware ESX E-LTU (JG815AAE)
- Transceivers and cables**
- See pages 83–89 for the Networking Transceiver Matrix.
- Note:** TAA-compliant SKUs are available for the HPE FlexFabric 5900AF and 5900CP Switch Series. For details, refer to the **[HPE FlexFabric 5900CP TAA-compliant Switch Series data sheet](#)**
- [HPE FlexFabric 5900 TAA-compliant Switch Series data sheet.](#)**

Data Center Networking

HPE FlexFabric

Top-of-rack network access switches (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	Dual-personality ports (max)	1/10GbE SFP+ ports (max)	Switching capacity
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HPE FlexFabric 5830 Switch Series



HPE FlexFabric 5830AF-96G Switch (JC694A)	2	0	96	0	10	392 Gbps
HPE FlexFabric 5830AF-48G Switch with 1 Interface Slot (JC691A)	1	1	48	2	2	160 Gbps

HPE FlexFabric 5830 Switch Series at a glance
 High-performance Gigabit Ethernet data center top-of-rack switches. Ultra-deep buffer for IDC, dual internal AC/DC power supply, front-to-back or back-to-front airflow, full Layer 2 and Layer 3, IPv4/IPv6 dual-stack switch.

* Dual-personality ports can be used as either an RJ-45 10/100/1000Base-T port or as an SFP port

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 5830 Switch Series

Power supplies

- HPE FlexFabric 58x0AF 650W AC Power Supply (JC680A)
- HPE FlexFabric 58x0AF 650W DC Power Supply (JC681A)

HPE 5830AF-48G Switch with 1 Interface Slot (JC691A)

- HPE FlexFabric 5500/5120 2-port 10GbE SFP+ Module (JD368B)
- HPE FlexFabric 5830AF-48G Back (power side) to Front (port side) Airflow Fan Tray (JC692A)

- HPE FlexFabric 5830AF-48G Front (port side) to Back (power side) Airflow Fan Tray (JC693A)

HPE FlexFabric 5830AF-96G Switch (JC694A)

- HPE FlexFabric 5830AF-96G Back (power side) to Front (port side) Airflow Fan Tray (JC695A)
- HPE FlexFabric 5830AF-96G Front (port side) to Back (power side) Airflow Fan Tray (JC696A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexFabric 5830 Switch Series. For details, refer to the **[HPE FlexFabric 5830 TAA-compliant Switch Series data sheet](#)**

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	8/4/2 Gbps Fibre Channel SFP+ ports (max)	1/10GbE SFP+ ports (max)	10GbE SFP+ ports (max)	Switching capacity
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HPE FlexFabric 5820 Switch Series



HPE FlexFabric 5820AF-24XG Switch (JG219B)	1	0	2	0	24	0	484 Gbps
HPE FlexFabric 5820-24XG-SFP+ Switch (JC102B)	1	0	4	0	0	24	488 Gbps
HPE FlexFabric 5820-14XG-SFP+ Switch with 2 Interface Slots and 1 OAA Slot (JC106B)	2	2+1x OAA	4	0/8*	0	14/22*	488 Gbps

HPE FlexFabric 5820 Switch Series at a glance
 High-performance 10GbE flex chassis switches. High-availability architecture with full Layer 2/3 dual-stack IPv4/IPv6, and line-rate, low-latency performance on all ports.

* Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 5820 Switch Series

Power supplies

- HPE RPS1600 Redundant Power System (JG136A)
- HPE RPS1600 1600W AC Power Supply (JG137A)

HPE 5820-14XG-SFP+ Switch with 2 Interface Slots & 1 OAA Slot (JC106B)

- HPE 5800 4-port 10GbE SFP+ Module (JC091A)
- HPE 5800 2-port 10GbE SFP+ Module (JC092B)
- HPE 5820 VPN Firewall Module (JD255A)
- HPE 5800 300W AC Power Supply (JC087A)
- HPE 5800 300W DC Power Supply (JC090A)
- HPE 5800 2RU Spare Fan Assembly (JC096A)

HPE 5820-24XG-SFP+ Switch (JC102B)

- HPE 5800 300W AC Power Supply (JC087A)
- HPE 5800 300W DC Power Supply (JC090A)
- HPE 5800 1RU Spare Fan Assembly (JC098A)

HPE 5820AF-24XG Switch (JG219B)

- HPE 58x0AF 650W AC Power Supply (JC680A)
- HPE 58x0AF 650W DC Power Supply (JC681A)
- HPE 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
- HPE 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)

Transceivers and cables



- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexFabric 5820 Switch Series. For details, refer to the **[HPE FlexFabric 5820 TAA-compliant Switch Series data sheet](#)**

Data Center Networking

HPE FlexFabric

Top-of-rack network access switches (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X) (max)	10GBASE-X SFP+ (max)	Switching capacity
HPE FlexFabric 5800 Switch Series							
	HPE FlexFabric 5800-48G-PoE+ Switch with 2 Interface Slots (JC101B)	2	2+1x OAA	48/80*	48	4/32*	284 Gbps
	HPE FlexFabric 5800-48G-PoE+ Switch with 1 Interface Slot (JC104B)	1	1	48/64*	48	0/16*	256 Gbps
	HPE FlexFabric 5800-48G Switch with 1 Interface Slot (JC105B)	1	1	48/64*	0	0/16*	256 Gbps
	HPE FlexFabric 5800AF-48G Switch (JG225B)	1	0	48	0	0	216 Gbps
	HPE FlexFabric 5800-24G-SFP Switch with 1 Interface Slot (JC103B)	1	1	0/16*	0	24/40*	208 Gbps
	HPE FlexFabric 5800-24G-PoE+ Switch (JC099B)	1	1	24/40*	24	0/16*	208 Gbps
	HPE FlexFabric 5800-24G Switch (JC100B)	1	1	24/40*	0	0/16*	208 Gbps
<p>HPE FlexFabric 5800 Switch Series at a glance</p> <p>Advanced Gigabit Ethernet and 10-Gigabit Ethernet chassis switches. L2/L3/L4, RIP/OSPF/BGP, MPLS, and VPLS support. Available in PoE and non-PoE models as well as 1 RU and 2 RU form-factor configurations. Built on open standards and include an open application architecture (OAA) module slot that enables flexible deployment options for new services.</p>							

*Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 5800 Switch Series

Modules

- HPE FlexFabric 5800 2-port 10GbE SFP+ Module (JC092B)
- HPE FlexFabric 5800 4-port 10GbE SFP+ Module (JC091A)
- HPE FlexFabric 5800 16-port Gig-T Module (JC094A)
- HPE FlexFabric 5800 16-port SFP Module (JC095A)

Appliance

- HPE FlexFabric 5820 VPN Firewall Module (JD255A)

EPS/RPS

- HPE FlexFabric 5800 PoE Module (JC097B)

AC power supplies

- HPE FlexFabric 5800/5500 150W AC Power Supply (JD362A)
- HPE FlexFabric 5800 300W AC Power Supply (JC087A)
- HPE FlexFabric 5800 750W AC Power Supply (JC089A)
- HPE FlexFabric RPS1600 1600W AC Power Supply (JG137A)
- HPE FlexFabric 58x0AF 650W AC Power Supply (JC680A)

DC power supplies

- HPE 5800/5500 150W DC Power Supply (JD366A)
- HPE 5800 300W DC Power Supply (JC090A)
- HPE RPS 800 Redundant Power Supply (JD183A)
- HPE RPS1600 Redundant Power System (JG136A)
- HPE 58x0AF 650W DC Power Supply (JC681A)

Fan trays

- HPE 5800 2RU Spare Fan Assembly (JC096A)
- HPE 5800 1RU Spare Fan Assembly (JC098A)
- HPE 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
- HPE 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)

Transceivers and cables



- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexFabric 5800 Switch Series. For details, refer to the [HPE FlexFabric 5800 TAA-compliant Switch Series data sheet](#).

Data Center Networking

HPE FlexFabric

Top-of-rack network access switches (continued)

	Height (RU)	10/100/1000 ports (max)	1/10GbE SFP+ ports (max)	10GbASE-T ports (max)	40GbE QSFP+ ports (max)	Switching capacity	
HPE FlexFabric 5700 Switch Series							
 	HPE FlexFabric 5700-32XGT-8XG-2QSFP+ Switch (JG898A)	1	0	8	32	2	960 Gbps
	HPE FlexFabric 5700-40XG-2QSFP+ Switch (JG896A)	1	0	40	0	2	960 Gbps
	HPE FlexFabric 5700-48G-4XG-2QSFP+ Switch (JG894A)	1	48	4	0	2	336 Gbps

HPE FlexFabric 5700 Switch Series at a glance
 A family of Layer 2 switches with light L3 features, designed for deployment in the data center access layer as L2 switches or as port expansion devices. Supports enhanced IRF features for spine/leaf configurations to simplify network management and expand server connectivity.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexFabric 5700 Switch Series

AC power supply

- HPE FlexFabric 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply (JG900A)
- HPE FlexFabric A58x0AF 650W AC power supply (JC680A)

DC power supply

- HPE FlexFabric 58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply (JG901A)
- HPE FlexFabric A58x0AF 650W DC power supply (JC681A)

Fan trays


- HPE FlexFabric 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)
- HPE FlexFabric 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)
- HPE X711 Front (port side) to Back (power side) Airflow High Volume Fan Tray (JG552A)
- HPE X712 Back (power side) to Front (port side) Airflow High Volume Fan Tray (JG553A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.
- Note:** TAA-compliant SKUs are available for the HPE FlexFabric 5700 Switch Series. For details, refer to the **HPE FlexFabric 5700 TAA-compliant Switch Series data sheet**.

HPE Altoline

HPE Altoline Switch Series

	Height (RU)	Power supplies (max)—included	Fan trays (max)—included	QSFP+ 40GbE ports (max)	QSFP+ 100GbE ports (max)	Switching capacity (Tbps)	
HPE Altoline 6960 Switch Series							
	HPE Altoline 6960 32QSFP28 x86 ONIE AC Front-to-Back Switch (JL279A)	1	2	5	0	32	3.2
	HPE Altoline 6960 32QSFP28 x86 ONIE AC Back-to-Front Switch (JL280A)	1	2	5	32	0	3.2

HPE Altoline 6960 Switch Series at a glance
 Top-of-rack (ToR) or spine switches for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across up to 32 x QSFP28 ports, supporting 25GbE server connections as a ToR switch, or 100GbE spine interconnects as a spine switch. It is a bare-metal switch loaded with ONIE, which supports the installation of compatible independent switch OS offerings.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Altoline 6960 Switch Series Mounting Kit


- HPE AL Gen2 Rackmount Kit (JL198A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Data Center Networking

HPE Altoline

Altoline Switch Series (continued)		Height (RU)	Power supplies (max)—included	Fan trays (max)—included	QSFP+ 40GbE ports (max)	Switching capacity (Gbps)
HPE Altoline 6940 Switch Series						
	HPE Altoline 6940 32QSFP+ x86 ONIE AC Front-to-Back Switch (JL165A)	1	2	5	32	2,560
	HPE Altoline 6940 32QSFP+ x86 ONIE AC Back-to-Front Switch (JL166A)	1	2	5	32	2,560
<p>HPE Altoline 6940 Switch Series at a glance</p> <p>An x86-based open-networking, disaggregated family of low-latency 40GbE data center switches in a 1U package. Perfect for deployment in web-scale environments as 10GbE server access or as 40GbE spine switches. Optimized for data center hot/cold isles deployments with reversible airflow. Hardware support for VXLAN is ideal for deployment in multi-tenancy and overlay environments. ONIE boot loader to deploy a choice of network operating systems with the freedom to select the management and orchestration tools.</p>						


Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Altoline 6940 Switch Series Mounting Kit

- HPE AL Gen2 Rackmount Kit (JL198A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

		Height (RU)	Power supplies (max)—included	Fan trays (max)—included	SFP+ 1/10GbE ports (max)	QSFP+ 40GbE ports (max)	Switching capacity (Gbps)
HPE Altoline 6920 Switch Series							
	HPE Altoline 6920 48XG 6QSFP+ x86 ONIE AC Front-to-Back Switch (JL167A)	1	2	5	48	6	1,440
	HPE Altoline 6920 48XG 6QSFP+ x86 ONIE AC Back-to-Front Switch (JL168A)	1	2	5	48	6	1,440
<p>HPE Altoline 6920 Switch Series at a glance</p> <p>A bare-metal switch loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible independent switch network operating system (NOS) offerings. Can be deployed as a leaf leaf top-of-rack (ToR) switch supporting 10GbE server connections.</p>							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Altoline 6920 Switch Series Mounting Kit



- HPE AL Gen2 Rackmount Kit (JL198A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Data Center Networking

Blade switches and Virtual Connect

Blade switch and Virtual Connect		Height (RU)	1Gb downlink ports (max)	1Gb/10Gb downlink ports (max)	1Gb RJ-45 uplink ports (max)	1Gb SFP uplink ports (max)	10Gb SFP+ uplink ports (max)	QSFP+ 40GbE uplink ports (max)	10Gb cross connect (max)	Port bandwidth (uplink/downlink)
HPE 6100 Switch Series										
 	HPE 6127XLG Ethernet Blade Switch (787635-B21)	Single bay	0	16*	0	8	4	4	1	240/320 Gbps
	HPE 6125G Ethernet Blade Switch (658247-B21)	Single bay	16	0	4	4	0	0	1	26/16 Gbps
	HPE 6125G/XG Ethernet Blade Switch (658250-B21)	Single bay	16	0	4	0	4	0	1	44/16 Gbps
	HPE 6125XLG Ethernet Blade Switch (711307-B21)	Single bay	0	16	0	0	8	4	4	240/160 Gbps

HPE 6100 Switch Series at a glance

A high performance 20/40G switch with advanced support for VXLAN/NGVRE, integrated management via OneView, and designed for the HPE BladeSystem c-Class enclosure. All units have 10GbE internal cross-connect for connectivity or IRF. Supports L2/L3/L4, RIP/OSPF/BGP, IRF, IPv4/IPv6.

* 20G Downlink

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE 6100 Switch Series


Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

Data Center Networking

Blade switches and Virtual Connect

Blade switch and Virtual Connect (continued)

	Height (RU)	10GbE downlink ports to servers (max)	10/20GbE downlink ports to server (max)	10GbE cross connect (max)	20GbE cross connect (max)	10GbE SFP+ (Ethernet) uplink ports (max)	10GbE SFP+ (Ethernet or FC) uplink ports (max)	QSFP+ 40GbE uplink ports (max)	Bridging fabric capacity	
HPE Virtual Connect modules										
	HPE Virtual Connect FlexFabric 20/40 F8 Module (691367-B21)	Single bay	0	16	0	2	0	8	4	1.2 Tbps
	HPE Virtual Connect FlexFabric 10Gb/24-port Module (571956-B21)	Single bay	16	0	4	0	4	4	0	480 Gbps
	HPE Virtual Connect Flex-10/10D Module (638526-B21)	Single bay	16	0	4	0	10	0	0	600 Gbps

HPE Virtual Connect modules at a glance
 The standards-based HPE Virtual Connect Fibre Channel Module interoperates with other SAN switch products. NPIV allows for scale, gaining immediate benefits without having to add domain IDs. Consider a blade server environment, such as an HPE BladeSystem c7000 chassis that has Fibre Channel switches in the back of the chassis.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Virtual Connect FlexFabric Transceivers and cables

- HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver (455883-B21)
- HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver (455886-B21)
- HPE BladeSystem c-Class 10Gb SFP+ LRM Transceiver (455889-B21)
- HPE BladeSystem c-Class 40Gb QSFP+ LC LR4 Transceiver (720190-B21)
- HPE BladeSystem c-Class 40Gb QSFP+ MPO SR4 100m Transceiver (720187-B21)
- HPE BladeSystem c-Class 40Gb QSFP+ MPO SR4 300m Transceiver (747698-B21)
- HPE BladeSystem c-Class QSFP+ to SFP+ Adapter (720193-B21)
- HPE BladeSystem c-Class Small Form-Factor Pluggable .5m 10GbE Copper Cable (487649-B21)
- HPE BladeSystem c-Class Small Form-Factor Pluggable 1m 10GbE Copper Cable (487652-B21)
- HPE BladeSystem c-Class Small Form-Factor Pluggable 3m 10GbE Copper Cable (487655-B21)
- HPE BladeSystem c-Class Small Form-Factor Pluggable 5m 10GbE Copper Cable (537963-B21)
- HPE BladeSystem c-Class Small Form-Factor Pluggable 7m 10GbE Copper Cable (487658-B21)
- HPE B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable (AP818A)
- HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable (AP819A)
- HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable (AP820A)
- HPE C-series SFP+ to SFP+ Active Copper 7.0m Direct Attach Cable (OK701A)
- HPE C-series SFP+ to SFP+ Active Copper 10.0m Direct Attach Cable (OK702A)
- HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable (AJ833A)
- HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable (AJ834A)

- HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable (AJ835A)
- HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable (AJ836A)
- HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable (AJ837A)
- HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable (AJ838A)
- HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable (AJ839A)

HPE Virtual Connect FlexFabric 10Gb/24-port Module (571956-B21)

- HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver (453151-B21)
- HPE BladeSystem c-Class Virtual Connect 1G SFP RJ-45 Transceiver (453154-B21)
- HPE 4Gb SW B-Series FC SFP (AJ715A)
- HPE 8Gb Shortwave B-series Fibre Channel 1 Pack SFP+ Transceiver (AJ716B)
- HPE 4Gb LW B-Series 35km FC SFP 1 Pack (AN211A)
- HPE 8Gb Long Wave B-series 10km Fibre Channel 1 Pack SFP+ Transceiver (AJ717A)
- HPE 8Gb Short Wave Fibre Channel SFP+ 1 Pack (AJ718A)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable (721064-B21) (Supported at 10G end)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable (721067-B21) (Not supported ports X1-X4)

HPE Virtual Connect Flex-10/10D Module (638526-B21)

- HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver (453151-B21)
- HPE BladeSystem c-Class Virtual Connect 1G SFP RJ-45 Transceiver (453154-B21)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable (721064-B21) (Supported at 10G end)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable (721067-B21) (Supported at 10G end)

HPE Virtual Connect FlexFabric 20/40 F8 Module (691367-B21)

- HPE 4Gb SW B-Series FC SFP (AJ715A)
- HPE 8Gb Shortwave B-series Fibre Channel 1 Pack SFP+ Transceiver (AJ716B)
- HPE 4Gb LW B-Series 35km FC SFP 1 Pack (AN211A)
- HPE 8Gb Long Wave B-series 10km Fibre Channel 1 Pack SFP+ Transceiver (AJ717A)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable (721064-B21)
- HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable (721067-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ .35m Direct Attach Copper Cable (730907-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (720196-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (720199-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (720202-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 7m Active Optical Cable (720205-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 10m Active Optical Cable (720208-B21)
- HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 15m Active Optical Cable (720211-B21)
- HPE Premier Flex MPO/MPO OM4 12f 10m Cable (QK729A)
- HPE Premier Flex MPO/MPO OM4 12f 50m Cable (QK731A)
- HPE Premier Flex MPO/MPO OM4 12f 100m Cable (H6Z30A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

HPE FlexNetwork

Core/Distribution	Height (RU)	Module slots (max)	10/100/1000 ports (max)	1/10GbE-T ports (max)	SFP (1000BASE-X) (max)	10GbE-X (max)	40GbE ports (max)	100GbE ports (max)	Switching capacity (max)*
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HPE FlexNetwork 10500 Switch Series



HPE FlexNetwork 10512 Switch Chassis (JC748A)	18	12	576	288	576	576	96	24	13.8 Tbps
HPE FlexNetwork 10508-V Switch Chassis (JC611A)	20	8	384	192	384	384	64	16	9.3 Tbps
HPE FlexNetwork 10508 Switch Chassis (JC612A)	14	8	384	192	384	384	64	16	9.3 Tbps
HPE FlexNetwork 10504 Switch Chassis (JC613A)	8	4	192	96	192	192	32	8	4.8 Tbps

HPE FlexNetwork 10500 Switch Series at a glance

Enterprise campus core switch designed to enable a cloud-connected and rich-media-capable infrastructure. It sets the benchmark for performance, reliability, and scalability with 3-microsecond latency, ultra-high 1/10/40GbE port density, 100GbE support, and 4 chassis IRF stacking.

*Switching capacity depends upon switch fabric installed. Maximum capacity is listed.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 10500 Switch Series

Modules

- HPE FlexNetwork 10500 Type D with Comware v7 Operating System Main Processing Unit (JH198A)
- HPE FlexNetwork 10504 880Gbps Type B Fabric Module (JC751A)
- HPE FlexNetwork 10504 1.2Tbps Type D Fabric Module (JC752A)
- HPE FlexNetwork 10508/10508-V 1.04Tbps Type B Fabric Module (JC753A)
- HPE FlexNetwork 10508/10508-V 2.32Tbps Type D Fabric Module (JC754A)
- HPE FlexNetwork 10508/10508-V 1.04Tbps Type B Fabric Module (JC753A)
- HPE FlexNetwork 10508/10508-V 2.32Tbps Type D Fabric Module (JC754A)
- HPE FlexNetwork 10512 1.52Tbps Type B Fabric Module (JC749A)
- HPE FlexNetwork 10512 3.44Tbps Type D Fabric Module (JC750A)
- HPE FlexNetwork 10500 2-Port 100GbE CFP SE Module (JG916A)
- HPE FlexNetwork 10500 2-port 100GbE CFP EC Module (JH196A)
- HPE FlexNetwork 10500 6-port 40GbE QSFP+ EC Module (JH195A)
- HPE FlexNetwork 10500 8-port 40GbE QSFP+ SF Module (JG392A)
- HPE FlexNetwork 10500 16-port 1/10GbE SFP+ SF Module (JH193A)

- HPE FlexNetwork 10500 24-port 1/10GbE-T SF Module (JG394A)
- HPE FlexNetwork 10500 24-port 1/10GbE SFP+ EC Module (JH194A)
- HPE FlexNetwork 10500 32-port 10GbE SFP+ SF Module (JC755A)
- HPE FlexNetwork 10500 44-port GbE SFP/4-port 10GbE SFP+ SE Module (JH191A)
- HPE FlexNetwork 10500 48-port 10GbE SFP+ SF Module (JC756A)
- HPE FlexNetwork 10500 48-port 1000BASE-T SE Module (JH192A)
- HPE FlexNetwork 10500 48-port 1/10GbE SFP+ SG Module (JH197A)

Appliances

- HPE FlexNetwork 10500/11900/7500 20Gbps VPN Firewall Module (JG372A)

Power supplies

- HPE FlexNetwork 10500 -48V 3m DC Power Supply Cable (JG390A)
- HPE FlexNetwork 10500 -48V 15m DC Power Supply Cable (JG391A)
- HPE FlexNetwork 10500 2500W AC Power Supply (JC610A)
- HPE FlexNetwork 10500 2400W DC Power Supply (JC747A)

Fan options

- HPE FlexNetwork 10508 Spare Fan Assembly (JC633A)
- HPE FlexNetwork 10508-V Spare Fan Assembly (JC634A)
- HPE FlexNetwork 10512 Spare Top Fan Tray Assembly (JC758A)
- HPE FlexNetwork 10512 Spare Bottom Fan Tray Assembly (JC773A)

Mounting kit

- HPE X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)

Licenses

- HPE FlexNetwork 10500/7500 SSL VPN 1000-user License (JD257A)
- HPE FlexNetwork 10500/7500 SSL VPN Module with 500-user License (JD253A)

Transceivers


- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexNetwork 10500 Switch Series. For details, refer to the [HPE FlexNetwork 10500 TAA-compliant Switch Series data sheet](#).

Campus Switching

HPE FlexNetwork

Core/Distribution (continued)

	Height (RU)	Module slots (max)	10/100 ports (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (100BASE-FX) (max)	SFP (1000BASE-X) (max)	10GBASE-X (max)	40GbE ports (max)	Switching capacity
HPE FlexNetwork 7500 Switch Series										
	HPE FlexNetwork 7510 Switch Chassis (JD238B)	16	10+2	480	480	480	480	84	10	1.15 Tbps
	HPE FlexNetwork 7506 Switch Chassis (JD239B)	13	6+2	288	288	288	288	52	24	768 Gbps
	HPE FlexNetwork 7503 Switch Chassis (JD240B)	10	3+2	144	144	144	144	28	12	480 Gbps
	HPE FlexNetwork 7502 Switch Chassis (JD242B)	4	2+2	96	96	96	96	16	8	192 Gbps
	HPE FlexNetwork 7503 Switch with 48-port Gig-T PoE+ Module and 384Gbps MPU with 2 XFP ports (JG507A)	10	3+2	144	144	144	144	28	0	480 Gbps
	HPE FlexNetwork 7506 Switch with 2 48-port Gig-T PoE+ Modules and 384Gbps MPU with 2 XFP ports (JG508A)	13	6+2	288	288	288	288	52	0	768 Gbps
	HPE FlexNetwork 7510 Switch with 2 48-port Gig-T PoE+ Modules and 768Gbps MPU (JG509A)	16	10+2	480	480	480	480	84	0	1.15 Tbps
HPE FlexNetwork 7500 Switch Series at a glance										
Versatile modular switch designed for integrated services networks. It offers 40GbE connectivity, cost-effective wire-speed 10GbE ports, high-density PoE/PoE+, advanced functionality with service modules, and 4 chassis IRF stacking.										

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 7500 Switch Series

Modules

- HPE FlexNetwork 7500 768Gbps Fabric Module (JD220A) [7510 models only]
- HPE FlexNetwork 7500 384Gbps Fabric Module with 2 XFP Ports (JD193B)
- HPE FlexNetwork 7500 384Gbps Fabric Module (JD194B)
- HPE FlexNetwork 7500 384Gbps Advanced Fabric Module (JD195A)
- HPE FlexNetwork 7502 Fabric Module (JD196A)
- HPE FlexNetwork 7500 2-port 10GbE XFP Module (JD201A)
- HPE FlexNetwork 7500 2-port 10GbE XFP Enhanced Module (JD233A)
- HPE FlexNetwork 7500 2-port 10GbE XFP Extended Module (JD236A)
- HPE FlexNetwork 7500 4-port 10GbE XFP Extended Module (JD235A)
- HPE FlexNetwork 7500 4-port 10GbE XFP Enhanced Module (JD232A)
- HPE FlexNetwork 7500 4-port 40GbE QSFP+ SC Module (JC792A)
- HPE FlexNetwork 7500 4-port 40GbE CFP SC Module (JG373A)
- HPE FlexNetwork 7500 8-port 10GbE XFP Extended Module (JD191A)
- HPE FlexNetwork 7500 8-port 10G SFP+ Module (JF290A)
- HPE FlexNetwork 7500 12-port GbE SFP Module (JD207A)
- HPE FlexNetwork 7500 20-port Gig-T/4-port GbE Combo PoE-upgradable SC Module (JC669A)
- HPE FlexNetwork 7500 24-port GbE SFP/2-port 10GbE XFP Extended Module (JD230A)
- HPE FlexNetwork 7500 24-port GbE SFP Extended Module (JD234A)

- HPE FlexNetwork 7500 24-port GbE SFP Enhanced Module (JD231A)
 - HPE FlexNetwork 7500 24-port GbE SFP Module (JD203B)
 - HPE FlexNetwork 7500 24-port Gig-T Module (JD204B)
 - HPE FlexNetwork 7500 24-port GbE SFP/2-port 10GbE XFP Module (JD205A)
 - HPE FlexNetwork 7500 24-port Gig-T/2-port 10GbE XFP Module (JD206A)
 - HPE FlexNetwork 7500 24-port GbE SFP Module with 8 Combo Ports (JD223A)
 - HPE FlexNetwork 7500 40-port Gig-T/8-port SFP PoE-ready Module (JD228B)
 - HPE FlexNetwork 7500 48-port 100BASE-FX Module (JD197B)
 - HPE FlexNetwork 7500 48-port 10/100BASE-T Module (JD198B)
 - HPE FlexNetwork 7500 48-port 1000BASE-T PoE+ SC Module (JG663A)
 - HPE FlexNetwork 7500 48-port Gig-T Module (JD210A)
 - HPE FlexNetwork 7500 48-port GbE SFP Module (JD211B)
 - HPE FlexNetwork 7500 48-port Gig-T PoE+ Extended Module (JD229B)
 - HPE FlexNetwork 7500 48-port GbE SFP Extended Module (JD237A)
 - HPE FlexNetwork 7500 48-port GbE SFP Enhanced Module (JD221A)
- Appliances**
- HPE FlexNetwork 10500/11900/7500 20Gbps VPN Firewall Module (JG372A)
 - HPE FlexNetwork 10500/7500 NetStream Monitoring Module (JD254A)

Power supplies

- HPE FlexNetwork 7500 1400W DC Power Supply (JD208A)
- HPE FlexNetwork 7500 1400W AC Power Supply (JD218A)
- HPE FlexNetwork 7500 2800W AC Power Supply (JD219A)
- HPE FlexNetwork 7500 6000W AC Power Supply (JD227A)
- HPE FlexNetwork 7500 650W AC Power Supply (JD217A)
- HPE FlexNetwork 7500 650W DC Power Supply (JD209A)
- HPE FlexNetwork 7502 300W AC Power Supply (JD226A)
- HPE FlexNetwork RPS 800 Redundant Power Supply (JD183A)

Fan options

- HPE FlexNetwork 7510 Spare Fan Assembly (JD216A)
- HPE FlexNetwork 7506 Spare Fan Assembly (JD214A)
- HPE FlexNetwork 7503 Spare Fan Assembly (JD212A)
- HPE FlexNetwork 7502 Spare Fan Assembly (JD213A)

Memory

- HPE FlexNetwork 7500 PoE DIMM Module (JD192B)
- HPE FlexNetwork 7500 24-port PoE DIMM (JC671A)
- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)

Licenses

- HPE FlexNetwork 10500/7500 SSL VPN 1000-user License (JD257A)
- HPE FlexNetwork 10500/7500 SSL VPN Module with 500-user License (JD253A)



Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

HPE FlexNetwork

Access

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (100GBASE-X) (max)	Dual personality ports (max)	SFP+ 10GbE ports (max)	1/10GBASE-T ports(max)	QSFP+ 40GbE ports (max)	Switching capacity (Gbps)	
HPE FlexNetwork 5510 HI Switch Series											
 	HPE FlexNetwork 5510 24G 4SFP+ HI 1-slot Switch (JH145A)	1	1	24	0	0	0	4/6*	2*	2*	288
	HPE FlexNetwork 5510 48G 4SFP+ HI 1-slot Switch (JH146A)	1	1	48	0	0	0	4/6*	2*	2*	336
	HPE FlexNetwork 5510 24G PoE+ 4SFP+ HI 1-slot Switch (JH147A)	1	1	0	24	0	0	4/6*	2*	2*	288
	HPE FlexNetwork 5510 48G PoE+ 4SFP+ HI 1-slot Switch (JH148A)	1	1	0	48	0	0	4/6*	2*	2*	336
	HPE FlexNetwork 5510 24G SFP 4SFP+ HI 1-slot Switch (JH149A)	1	1	0	0	16	8	4/6*	2*	2*	288

HPE FlexNetwork 5510 HI Switch Series at a glance
 Advanced Layer 3 switch delivers resiliency, security, and multiservice support to large campus and branch networks. Supports up to 1440W PoE+, fixed and modular 10GbE, 9 Chassis IRF Stacking, Static & RIP routing, OAM, OSPF, MPLS/VPLS, Multilevel QoS and QSFP+ support.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port
 *Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 5510 HI Switch Series

Modules

- HPE FlexNetwork 5510 2-port QSFP+ Module JH155A
- HPE FlexNetwork 5130/5510 10GBASE-T 2p Module JH156A
- HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module JH157A

Power supplies

- HPE FlexNetwork 5800/5500 150W AC Power Supply (JD362A)
- HPE FlexNetwork 5800/5500 150W DC Power Supply (JD366A)
- HPE X362 720W AC PoE Power Supply (JG544A)
- HPE X362 1110W AC PoE Power Supply (JG545A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix

Campus Switching

HPE FlexNetwork

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (100/10000 max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X) (max)	XFP 10GbE (max)	SFP+ 10GbE ports (max)	10GBASE-T ports (max)	Switching capacity (Gbps)
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HPE FlexNetwork 5500 HI Switch Series



HPE FlexNetwork 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)	1	2	48/70*	0	18*	4*	2/6*	4*	224
HPE FlexNetwork 5500-24G-4SFP HI Switch with 2 Interface Slots (JG511A)	1	2	24/46*	0	18*	4*	2/6*	4*	176
HPE FlexNetwork 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)	1	2	0/18*	24	18*	4*	2/6*	4*	176
HPE FlexNetwork 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)	1	2	0/18*	48	18*	4*	2/6*	4*	224
HPE FlexNetwork 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)	1	2	8/26*	0	16/34*	4*	2/6*	4*	176

HPE FlexNetwork 5500 HI Switch Series at a glance
 Advanced Layer 3 switch delivers resiliency, security, and multiservice support to large campus and branch networks. Supports up to 1440W PoE+, fixed and modular 10GbE, 9 chassis IRF stacking, static & RIP routing, OAM, OSPF, MPLS/VPLS, ACLs, multilevel QoS and 9 chassis IRF stacking.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port
 *Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 5500 HI Switch Series

Modules

- HPE 5500 2-port 10GbE XFP Module (JD359B)
- HPE 5500 2-port 10GbE Local Connect Module (JD360B)
- HPE 5500 1-port 10GbE XFP Module (JD361B)
- HPE 5500/4800 2-port GbE SFP Module (JD367A)
- HPE 5500/5120 2-port 10GbE SFP+ Module (JD368B)
- HPE 5500 HI 8-port Gig-T Module (JG313A)
- HPE 5500 HI 8-port SFP Module (JG314A)
- HPE 5500/5120 2-port 10GBASE-T Module (JG535A)

Power supplies

- HPE FlexNetwork 5800/5500 150W AC Power Supply (JD362A)
- HPE FlexNetwork 5800/5500 150W DC Power Supply (JD366A)
- HPE X362 720W AC PoE Power Supply (JG544A)
- HPE X362 1110W AC PoE Power Supply (JG545A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexNetwork 5500 HI Switch Series. For details, refer to the [HPE FlexNetwork 5500 HI TAA-compliant Switch Series data sheet](#).

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (100BASE-FX) (max)	SFP+ (1000BASE-X) (max)	10GBASE-X (max)	Switching capacity
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HPE FlexNetwork 5500 EI Switch Series



HPE FlexNetwork 5500-48G-PoE+ EI Switch with 2 Interface Slots (JG240A)	1	2	0	48	0	4/8*	0/4*	192 Gbps
HPE FlexNetwork 5500-48G EI Switch with 2 Interface Slots (JD375A)	1	2	48	0	0	4/8*	0/4*	192 Gbps
HPE FlexNetwork 5500-24G-PoE+ EI Switch with 2 Interface Slots (JG241A)	1	2	0	24	0	4/8*	0/4*	144 Gbps
HPE FlexNetwork 5500-24G-SFP EI Switch with 2 Interface Slots (JD374A)	1	2	0	0	0	24/28*	0/4*	144 Gbps
HPE FlexNetwork 5500-24G EI Switch with 2 Interface Slots (JD377A)	1	2	24	0	0	4/8*	0/4*	144 Gbps

HPE FlexNetwork 5500 EI Switch Series at a glance
 Scalable Layer 3 switch delivers resiliency, security, and multiservice support to large campus and branch networks. Supports PoE+, fixed and modular 10GbE, Static & RIP Routing, OAM, OSPF, IS-IS, ACLs, and 9 chassis IRF stacking.

*Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 5500 EI Switch Series

Modules

- HPE FlexNetwork 5500 1-port 10GbE XFP Module (JD361B)
- HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module (JG535A)
- HPE FlexNetwork 5500 2-port 10GbE XFP Module (JD359B)
- HPE FlexNetwork 5500 2-port 10GbE Local Connect Module (JD360B)
- HPE FlexNetwork 5500/4800 2-port GbE SFP Module (JD367A)
- HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module (JD368B)

Power supplies

- HPE FlexNetwork 5800/5500 150W AC Power Supply (JD362A)
- HPE FlexNetwork 5800/5500 150W DC Power Supply (JD366A)
- HPE RPS 800 Redundant Power Supply (JD183A)
- HPE RPS1600 Redundant Power System (JG136A)
- HPE RPS1600 1600W AC Power Supply (JG137A)

Power cords

- HPE X290 1000 A JD5 2m RPS Cable (JD187A)
- HPE X290 1000 A JD5 Non-PoE 2m RPS Cable (JD188A)

- HPE X290 1000 B JD5 2m RPS Cable (JD189A)
- HPE X290 500/800 1m RPS Cable (JD190A)
- HPE X290 500 U 1m RPS Cable (JD185A)

Transceivers and cables



- See pages 83–89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexNetwork 5500 EI Switch Series. For details, refer to the [HPE FlexNetwork 5500 EI TAA-compliant Switch Series data sheet](#).

Campus Switching

HPE FlexNetwork

Access (continued)

	Height (RU)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (100/1000 Mbps) ports (max)	1/10GBASET ports (max)	SFP+ (1/10GbE) ports (max)	Switching capacity	
HPE FlexNetwork 5130 EI Switch Series								
 	HPE FlexNetwork 5130-24G-4SFP+ EI Switch (JG932A)	1	24	0	0	0	4	128 Gbps
	HPE FlexNetwork 5130-24G-PoE+-4SFP+ (370W) EI Switch (JG936A)	1	0	24	0	0	4	128 Gbps
	HPE FlexNetwork 5130-24G-SFP-4SFP+ EI Switch (JG933A)	1	0	0	24	0	4	128 Gbps
	HPE FlexNetwork 5130-48G-4SFP+ EI Switch (JG934A)	1	48	0	0	0	4	176 Gbps
	HPE FlexNetwork 5130-48G-PoE+-4SFP+ (370W) EI Switch (JG937A)	1	0	48	0	0	4	176 Gbps
	HPE FlexNetwork 5130-24G-4SFP+ EI Brazil Switch (JG975A)*	1	24	0	0	0	4	128 Gbps
	HPE FlexNetwork 5130-24G-PoE+-4SFP+ (370W) EI Brazil Switch (JG977A)*	1	0	24	0	0	4	128 Gbps
	HPE FlexNetwork FlexNetwork 5130-48G-4SFP+ EI Brazil Switch (JG976A)*	1	48	0	0	0	4	176 Gbps
	HPE FlexNetwork 5130-48G-PoE+-4SFP+ (370W) EI Brazil Switch (JG978A)*	1	0	48	0	0	4	176 Gbps
	HPE FlexNetwork 5130-24G-2SFP+-2XGT EI Switch (JG938A)	1	24	0	0	2	2	128 Gbps
	HPE FlexNetwork 5130-48G-2SFP+-2XGT EI Switch (JG939A)	1	48	0	0	2	2	176 Gbps
	HPE FlexNetwork 5130-24G-PoE+-2SFP+-2XGT (370W) EI Switch (JG940A)	1	0	24	0	2	2	128 Gbps
	HPE FlexNetwork 5130-48G-PoE+-2SFP+-2XGT (370W) EI Switch (JG941A)	1	0	48	0	2	2	176 Gbps

HPE FlexNetwork 5130 EI Switch Series at a glance
 Flexible and scalable basic Layer 3 switch for the access layer of medium and large enterprise campus networks. It offers enterprise class QoS and security, static Layer 3 routing and RIP, convenient fixed 10GbE uplink ports (SFP+ and 10GBASE-T), PoE+, ACLs, IPv6 and delivers energy savings with Energy Efficient Ethernet and supports 9 chassis IRF stacking.

*Brazil switches are available for sale only in Brazil.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 5130 EI Switch Series

Power supplies

- HPE FlexNetwork 5500 150WAC Power Supply (JD362A)
- HPE FlexNetwork 5500 150WDC Power Supply (JD366A)
- HPE RPS 800 Redundant Power Supply (JD183A)
- HPE RPS1600 Redundant Power System (JG136A)
- HPE RPS1600 1600W AC Power Supply (JG137A)

Power cords

- HPE X290 500 V 1m RPS Cable (JD186A)
- HPE X290 1000 A JD5 Non-PoE 2m RPS Cable (JD188A)
- HPE X290 1000 A JD5 2m RPS Cable (JD187A)



Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

HPE FlexNetwork

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X) (max)	1/10GBASE-T (max)	Switching capacity	
HPE FlexNetwork 5130 HI Switch Series								
 	HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch (JH323A)	1	1	24	0	4/6*	2*	154 Gbps
	HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch (JH324A)	1	1	48	0	4/6*	2*	190 Gbps
	HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch (JH325A)	1	1	0	24	4/6*	2*	154 Gbps
	HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch (JH326A)	1	1	0	48	4/6*	2*	190 Gbps

HPE FlexNetwork 5130 HI Switch Series at a glance
 Flexible and scalable basic Layer 3 switches or the access layer of the medium and large enterprise and campus network. It offers enterprise class QoS and security, static and RIP routing, Convenient fixed and modular 10GbE Uplinks (SFP+ and 10GBASET), PoE+, ACLs, IPV6, and delivers energy savings with Energy Efficient Ethernet. It supports 9 chassis IRF Stacking. These switches support dual power supplies, for up to 1440W of PoE+ power or redundancy.
 *Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 5130 HI Switch Series

Modules

- HPE FlexNetwork 5130/5510 10GBASE-T 2p Module JH156A
- HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module JH157A

Power supplies

- HPE FlexNetwork 5800/5500 150W AC Power Supply (JD362A)
- HPE FlexNetwork 5800/5500 150W DC Power Supply (JD366A)
- HPE X362 720W AC PoE Power Supply (JG544A)
- HPE X362 1110W AC PoE Power Supply (JG545A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

HPE FlexNetwork

Access (continued)

	Height (RU)	10/100 ports (max)	10/100 PoE+ ports (max)	SFP 100BASE-X (max)	SFP 1000BASE-X (max)	Dual Personality ports (max)	Switching capacity
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HPE FlexNetwork 3600 EI Switch Series



HPE FlexNetwork 3600-48-PoE+ v2 EI Switch (JG302C)	1	0	48	0	4	2	17.6 Gbps
HPE FlexNetwork 3600-48 v2 EI Switch (JG300B)	1	48	0	0	4	2	17.6 Gbps
HPE FlexNetwork 3600-24-PoE+ v2 EI Switch (JG301C)	1	0	24	0	4	2	12.8 Gbps
HPE FlexNetwork 3600-24-SFP v2 EI Switch (JG303B)	1	0	0	24	4	2	12.8 Gbps
HPE FlexNetwork 3600-24 v2 EI Switch (JG299B)	1	24	0	0	4	2	12.8 Gbps

HPE FlexNetwork 3600 EI Switch Series at a glance
 Advanced Layer 3 Fast Ethernet switch delivers resiliency, security, and reliability with support for advanced Layer 3 and multicast routing. It has a robust feature set, Static & RIP Routing, OSPF, BGP, IS-IS, PoE+, ACLs, and IPv6 and 9 chassis IRF stacking.

Note: Dual-personality ports can be used as either an RJ-45 1000Mbps port or as an SFP port

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 3600 EI Switch Series

Cable

- HPE FlexNetwork 3600 Switch SFP Stacking Kit (JD324B)

Power supplies

- HPE RPS 800 Redundant Power Supply (JD183A)
- HPE RPS1600 Redundant Power System (JG136A)
- HPE RPS1600 1600W AC Power Supply (JG137A)

Power cords

- HPE X290 500 V 1m RPS Cable (JD186A)
- HPE X290 1000 A JD5 2m RPS Cable (JD187A)
- HPE X290 1000 A JD5 Non-PoE 2m RPS Cable (JD188A)
- HPE X290 1000 B JD5 2m RPS Cable (JD189A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	10/100 ports (max)	10/100 PoE+ ports (max)	SFP 100BASE-X (max)	SFP 1000BASE-X (max)	Dual Personality ports (max)	Switching capacity
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HPE FlexNetwork 3600 SI Switch Series



HPE FlexNetwork 3600-48-PoE+ v2 SI Switch (JG307C)	1	0	48	0	4	2	17.6 Gbps
HPE FlexNetwork 3600-24-PoE+ v2 SI Switch (JG306C)	1	0	24	0	4	2	12.8 Gbps
HPE FlexNetwork 3600-48 v2 SI Switch (JG305B)	1	48	0	0	4	2	17.6 Gbps
HPE FlexNetwork 3600-24 v2 SI Switch (JG304B)	1	24	0	0	4	2	12.8 Gbps

HPE FlexNetwork 3600 SI Switch Series at a glance
 Multi-layer switches that fulfill the enterprise requirement for a unified, highly resilient network. 48 or 24 10/100 ports, Gigabit Ethernet uplinks, PoE and non-PoE configurations, AC or DC power, IEEE 802.1X access control, and MAC authentication. Supports RIP routing, IRF, Distributed Device Management (DDM), and Dynamic Link Aggregation (DLA); IPv6 Layer 3 routing (for V2 SKUs), IPv6/IPv4 dual stack (for V2 SKUs).

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 3600 SI Switch Series

Cable

- HPE FlexNetwork 3600 Switch SFP Stacking Kit (JD324B)

Power supplies

- HPE RPS1600 Redundant Power System (JG136A)
- HPE RPS1600 1600W AC Power Supply (JG137A)

Power cord

- HPE X290 1000 A JD5 2m RPS Cable (JD187A)


Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

HPE FlexNetwork

Access (continued)

	Height (RU)	Module slots (max)	10/100 ports (max)	10/100 PoE ports (max)	SFP (1000BASE-X) (max)	Dual personality ports (max)	Switching capacity	
HPE FlexNetwork 3100 EI Switch Series								
	HPE FlexNetwork 3100-48 V2 Switch (JG315B)	1	0	48	0	4	2	17.6 Gbps
	HPE FlexNetwork 3100-24-PoE V2 EI Switch (JD313B)	1	0	0	24	0	2	8.8 Gbps
	HPE FlexNetwork 3100-24 V2 EI Switch (JD320B)	1	0	24	0	0	2	8.8 Gbps
	HPE FlexNetwork 3100-8 V2 EI Switch (JD318B)	1	0	8	0	0	1	3.6 Gbps
	HPE FlexNetwork 3100-16 V2 EI Switch (JD319B)	1	0	16	0	0	2	7.2 Gbps

HPE FlexNetwork 3100 EI Switch Series at a glance
 Fully managed Fast Ethernet Layer 2 switches ideal for the access layer of medium and large enterprises. Features include enterprise class quality of service and security features including rate limiting, QinQ, ACLs, a 24-port PoE model, and improved reliability with backup redundancy.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.


Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 3100 EI Switch Series

- Cable**
- HPE FlexNetwork 3600 Switch SFP Stacking Kit (JD324B)
- Power supplies**
- HPE RPS 800 Redundant Power Supply (JD183A)
 - HPE RPS1600 Redundant Power System (JG136A)
 - HPE RPS1600 1600W AC Power Supply (JG137A)

- Power cords**
- HPE X290 500 C 1m RPS Cable (JD184A)
 - HPE X290 1000 A JD5 2m RPS Cable (JD187A)
- Mounting kits**
- HPE FlexNetwork 3100/4210-16 Rack Mount Kit (JD321A)
 - HPE FlexNetwork 3100/4210-9 Rack Mount Kit (JD322A)
 - HPE FlexNetwork 3100/4210-16/-8 PoE Rack Mount Kit (JD323A)

- Transceivers and cables**
- See pages 83–89 for the Networking Transceiver Matrix

	Height (RU)	Module slots (max)	10/100 ports (max)	10/100 PoE ports (max)	SFP (1000BASE-X) (max)	Dual personality ports (max)	Switching capacity	
HPE FlexNetwork 3100 SI Switch Series								
	HPE FlexNetwork 3100-24 V2 SI Switch (JG223A)	1	0	24	0	0	2	8.8 Gbps
	HPE FlexNetwork 3100-16 V2 SI Switch (JG222A)	1	0	16	0	0	2	7.2 Gbps
	HPE FlexNetwork 3100-8 V2 SI Switch (JG221A)	1	0	8	0	0	1	3.6 Gbps

HPE FlexNetwork 3100 SI Switch Series at a glance
 Cost-effective, fully managed Fast Ethernet Layer 2 switches for the access layer of medium and large enterprises. Includes 1GbE uplinks for reliable connectivity, easy installation with quiet, fanless models and enterprise class quality of service and security features.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 3100 SI Switch Series



- Mounting kit**
- HPE FlexNetwork 3100/4210-9 Rack Mount Kit (JD322A)
 - HPE FlexNetwork 3100/4210-16 Rack Mount Kit (JD321A)

- Transceivers and cables**
- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

The integration of the HPE and Aruba access portfolios is a key ingredient in our mobile-first approach. Although a highly mobile workforce means that the majority of users will connect via wireless, the surge in IoT devices and the increasing use of Wi-Fi bandwidth means that the wired infrastructure is critical, too. HPE Smart Rate technology incorporated into the Aruba 3810 and 5400R switches, allows you to raise the data rates to 2.5Gbps, 5Gbps and even 10Gbps. With multi-gig capability on all of its ports, the 3810 series enables IT departments to futureproof their network infrastructure as new, higher capacity wireless technologies emerge.

Access		Height (RU)	Module slots (max)	10/100 PoE ports (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (1000BASE-X) (max)	Smart Rate multi-gigabit (max)	10GBASE-X (max)	40GbE ports (max)	Switching capacity (v3 modules) (Gbps)
Aruba 5400R z12 Switch Series											
 	Aruba 5406R z12 Switch (J9821A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R-44G-PoE+/2SFP+ (No PSU) v2 z12 Switch (J9823A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R-44G-PoE+/4SFP (No PSU) v2 z12 Switch (J9824A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R-8XGT/8SFP+ (No PSU) v2 z12 Switch (J9868A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+/8-port SFP+ (No PSU) v3 z12 Switch (JL002A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R 44GT PoE+/4SFP+ (No PSU) v3 z12 Switch (JL003A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5406R 16-port SFP+ (No PSU) v3 z12 Switch (JL095A)	4	6	144	144	144	144	48	48	12	960
	Aruba 5412R 92GT PoE+/4SFP+ (No PSU) v3 z12 Switch (JL001A)	7	12	288	288	288	288	96	96	24	1920
	Aruba 5412R z12 Switch (J9822A)	7	12	288	288	288	288	96	96	24	1920
	Aruba 5412R-92G-PoE+/2SFP+ (No PSU) v2 z12 Switch (J9825A)	7	12	288	288	288	288	96	96	24	1920
Aruba 5412R-92G-PoE+/4SFP (No PSU) v2 z12 Switch (J9826A)	7	12	288	288	288	288	96	96	24	1920	
Aruba 5400R z12 Switch Series at a glance Advanced intelligent switches with resiliency and redundant management in the Aruba modular chassis product line, which includes 6-slot and 12-slot chassis and associated modules and bundles. The foundation for the switch series is a purpose-built, programmable 6th Generation Aruba OS ASIC that allows the most demanding networking features, such as Quality of Service (QoS), advanced SDN functionality, and MACsec ready hardware. With HPE Smart Rate multi-gigabit, gigabit, 10 gigabit and 40 gigabit Ethernet interfaces; choice of PoE+ and non-PoE, integrated Layer 3 features, and HPE AllianceOne solutions, the 5400R z12 switch series offers excellent investment protection, flexibility and scalability, as well as ease of deployment, operation and maintenance.											

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

- Aruba 5400R z12 Switch Series**
- v2 modules**
- Aruba 5400R z12 Management Module (J9827A)
 - Aruba Advanced Services v2 z12 Module with HDD (J9857A)
 - Aruba Advanced Services v2 z12 Module with SSD (J9858A)
 - Aruba 8-port 10GBASE-T v2 z12 Module (J9546A)
 - Aruba 8-port 10GbE SFP+ v2 z12 Module (J9538A)
 - Aruba 12-port Gig-T PoE+/12-port SFP v2 z12 Module (J9637A)
 - Aruba 20-port Gig-T PoE+/2-port 10GbE SFP+ v2 z12 Module (J9536A)
 - Aruba 20-port Gig-T PoE+/4-port SFP v2 z12 Module (J9535A)
 - Aruba 20-port Gig-T/4-port SFP v2 z12 Module (J9549A)
 - Aruba 20-port Gig-T/2-port 10GbE SFP+ v2 z12 Module (J9548A)
 - Aruba 24-port SFP v2 z12 Module (J9537A)
 - Aruba 24-port Gig-T PoE+ v2 z12 Module (J9534A)
 - Aruba 24-port 10/100 PoE+ v2 z12 Module (J9547A)
 - Aruba 24-port Gig-T v2 z12 Module (J9550A)


- v3 modules**
- Aruba 2-port 40GbE QSFP+ v3 z12 Module (J9996A)
 - Aruba 8-port 1G/10GbE SFP+ MACsec v3 z12 Module (J9993A)
 - Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 z12 Module (J9995A)
 - Aruba 12-port 10/100/1000BASE-T PoE+/12-port 1GbE SFP MACsec v3 z12 Module (J9989A)
 - Aruba 20-port 10/100/1000BASE-T PoE+/4-port 1G/10GbE SFP+ MACsec v3 z12 Module (J9990A)
 - Aruba 20-port 10/100/1000BASE-T PoE+/4p 1/2.5/5/10GBASE-T PoE+ MACsec v3 z12 Module (J9991A)
 - Aruba 20-port 10/100/1000BASE-T PoE+ MACsec/1-port 40GbE QSFP+ v3 z12 Module (J9992A)
 - Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 z12 Module (J9986A)
 - Aruba 24-port 10/100/1000BASE-T MACsec v3 z12 Module (J9987A)
 - Aruba 24-port 1GbE SFP MACsec v3 z12 Module (J9988A)

- Power supplies**
- Aruba 5400R 700W PoE+ z12 Power Supply (J9828A)
 - Aruba 5400R 1100W PoE+ z12 Power Supply (J9829A)
 - Aruba 5400R 2750W PoE+ z12 Power Supply (J9830A)
- Fan trays**
- Aruba 5406R z12 Switch Fan Tray (J9831A)
 - Aruba 5412R z12 Switch Fan Tray (J9832A)
- Mounting kit**
- HPE X450 4U/7U Universal 4-Post Rack Mounting Kit (J9852A)
- Transceivers and cables**
- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100 ports (max)	10/100 PoE ports (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (100BASE-FX) (max)	SFP (1000BASE-X) (max)	10GBASE-X (max)	Switching capacity (Gbps)	Switching capacity/with v2 modules (Gbps)	
Aruba 5400 zl Switch Series												
	Aruba 5412-92G-PoE+/4G-SFP v2 zl Switch with Premium Software (J9540A)	7	12	288	288	288	288	288	96	645.6	758.4	
	Aruba 5412-92G-PoE+/2XG-SFP+ v2 zl Switch with Premium Software (J9532A)	7	12	288	288	288	288	288	96	645.6	758.4	
	Aruba 5412 zl Switch with Premium Software (J9643A)	7	12	288	288	288	288	288	96	645.6	758.4	
	Aruba 5406-44G-PoE+/4G-SFP v2 zl Switch with Premium Software (J9539A)	4	6	144	144	144	144	144	48	322.8	379.2	
	Aruba 5406-44G-PoE+/2XG-SFP+ v2 zl Switch with Premium Software (J9533A)	4	6	144	144	144	144	144	48	322.8	379.2	
	Aruba 5406 zl Switch with Premium Software (J9642A)	4	6	144	144	144	144	144	48	322.8	379.2	
	Aruba 5406 8p 10GBASE-T 8p 10GbE SFP+ v2 zl Switch with Premium Software (J9866A)	4	6	144	144	144	144	144	48	322.8	379.2	

Aruba 5400 zl Switch Series at a glance
 Modular switches designed for campus edge and SMB and branch office core deployments. It offers flexible connectivity of 1GbE, 10GbE and PoE+ and has an advanced Layer 2/3 feature set including IPv6, IPv4 BGP, policy-based routing, OSPF and robust QoS.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 5400 zl Switch Series

Modules

- Aruba 4-port 10GbE CX4 zl Module (J8708A)
- Aruba 4-port 10GbE X2 zl Module (J8707A)
- Aruba 4-port 10GbE SFP+ zl Module (J9309A)
- Aruba 8-port 10GbE SFP+ v2 zl Module (J9538A)
- Aruba 8-port 10GBASE-T v2 zl Module (J9546A)
- Aruba 12-port Gig-T PoE+/12-port SFP v2 zl Module (J9637A)
- Aruba 20-port Gig-T PoE+/2-port 10GbE SFP+ v2 zl Module (J9536A)
- Aruba 20-port Gig-T PoE+/4-port SFP v2 zl Module (J9535A)
- Aruba 20-port 10/100/1000 PoE+/4-port Mini-GBIC zl Module (J9308A)
- Aruba 20-port Gig-T/4-port Mini-GBIC zl Module (J8705A)

- Aruba 20-port Gig-T/4-port SFP v2 zl Module (J9549A)
- Aruba 20-port Gig-T/2-port 10GbE SFP+ v2 zl Module (J9548A)
- Aruba 24-port SFP v2 zl Module (J9537A)
- Aruba 24-port 10/100/1000 PoE zl Module (J8702A)
- Aruba 24-port Mini-GBIC zl Module (J8706A)
- Aruba 24-port 10/100/1000 PoE+ zl Module (J9307A)
- Aruba 24-port Gig-T PoE+ v2 zl Module (J9534A)
- Aruba 24-port 10/100 PoE+ zl Module (J9478A)
- Aruba 24-port 10/100 PoE+ v2 zl Module (J9547A)
- Aruba 24-port Gig-T v2 zl Module (J9550A)

Network services modules

- Aruba Advanced Services v2 zl Module with HDD (J9857A)
- Aruba Advanced Services v2 zl Module with SSD (J9858A)

Power supplies

- Aruba 1500W PoE+ zl Power Supply (J9306A)
- Aruba 1500W zl Power Supply (J8713A)
- Aruba 875W zl Power Supply (J8712A)

EPS/RPS

- Aruba zl Power Supply Shelf (J8714A)

License

- Aruba 5400 zl Premium License (J8994A)


Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	Smart Rate multi-Gigabit (max)	SFP+ (1/10GbE) ports (max)	40GbE ports (max)—with module	Switching capacity (Gbps)
Aruba 3810 Switch Series								
	Aruba 3810M 24G 1-slot Switch (JL071A)	1	1	24	0	0	4	160
	Aruba 3810M 48G 1-slot Switch (JL072A)	1	1	48	0	0	4	320
	Aruba 3810M 24G PoE+ 1-slot Switch (JL073A)	1	1	0	24	0	4	160
	Aruba 3810M 48G PoE+ 1-slot Switch (JL074A)	1	1	0	48	0	4	320
	Aruba 3810M 16SFP+ 2-slot Switch (JL075A)	1	2	0	0	0	24	480
	Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch (JL076A)	1	1	0	40	8	4	2

Aruba 3810 Switch Series at a glance
 Rightsize deployment and back haul capacity with modular 10GbE and 40GbE uplinks. Dual, redundant, hot-swappable power supplies and innovative backplane stacking technology delivers resiliency and scalability in a convenient 1U form factor. Advanced Layer 2 and 3 feature set with HPE Smart Rate, OSPF, IPv6, IPv4 BGP, robust QoS and policy-based routing are included with no software licensing.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 3810 Switch Series

Module

- Aruba 3810M 4-port Stacking Module (JL084A)
- Aruba 3810M 4SFP+ Module (JL083A)
- Aruba 3810M 1QSFP+ 40GbE Module (JL078A)
- Aruba 3810M 2QSFP+ 40GbE Module (JL079A)

Fan tray

- Aruba 3810 Switch Fan Tray (JL088A)

Power supplies

- Aruba X371 12VDC 250W 100-240VAC Power Supply (JL085A)
- Aruba X372 54VDC 680W 100-240VAC Power Supply (JL086A)
- Aruba X372 54VDC 1050W 110-240VAC Power Supply (JL087A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)


Transceivers and cables

- Aruba 3800/3810M 0.5m Stacking Cable (J9578A)
- Aruba 3800/3810M 1m Stacking Cable (J9665A)
- Aruba 3800/3810M 3m Stacking Cable (J9579A)
- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (1000BASE-X) (max)	10GBASE-X (max)	Switching capacity	
Aruba 3800 Switch Series								
	Aruba 3800-48G-PoE+-4SFP+ Switch (J9574A)	1	1	0	48	0	4	176 Gbps
	Aruba 3800-48G-PoE+-4XG Switch (J9588A)	1	1	0	48	0	4	176 Gbps
	Aruba 3800-48G-4SFP+ Switch (J9576A)	1	1	48	0	0	4	176 Gbps
	Aruba 3800-48G-4XG Switch (J9586A)	1	1	48	0	0	4	176 Gbps
	Aruba 3800-24G-PoE+-2SFP+ Switch (J9573A)	1	1	0	24	0	2	88 Gbps
	Aruba 3800-24G-PoE+-2XG Switch (J9587A)	1	1	0	24	0	2	88 Gbps
	Aruba 3800-24G-2SFP+ Switch (J9575A)	1	1	24	0	0	2	88 Gbps
	Aruba 3800-24G-2XG Switch (J9585A)	1	1	24	0	0	2	88 Gbps
	Aruba 3800-24SFP-2SFP+ Switch (J9584A)	1	1	0	0	24	2	88 Gbps

Aruba 3800 Switch Series at a glance
 High performance and resilient Layer 3 switch delivers low latency, increased packet buffering, and adaptive power consumption for campus and branch deployments. Offers built-in 10GbE uplinks, PoE+, a robust Layer 3 feature set with IPv6, IPv4 BGP, policy-based routing, and OSPF. Ring stacking up to 10 switches and mesh stacking of up to five switches for chassis-like resiliency.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 3800 Switch Series

Module

- Aruba 3800 4-port Stacking Module (J9577A)

Power supplies

- Aruba X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
- Aruba X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
- Aruba X311 400W 100-240VAC to 12VDC Power Supply (J9581A)
- Aruba X311 400W 100-240VAC to 12VDC Power Supply (J9581A)

- Aruba X311 400W 100-240VAC to 12VDC Power Supply (J9581A)
- Aruba X311 400W 100-240VAC to 12VDC Power Supply (J9581A)
- Aruba X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
- Aruba X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
- Aruba X311 400W 100-240VAC to 12VDC Power Supply (J9581A)

Fan tray

- Aruba 3800 Switch Fan Tray (J9582A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)



Transceivers and cables

- Aruba 3800 0.5m Stacking Cable (J9578A)
- Aruba 3800 1m Stacking Cable (J9665A)
- Aruba 3800 3m Stacking Cable (J9579A)
- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	Dual personality ports (max)	10GbE-X (max)	Switching capacity
Aruba 3500 yl Switch Series							
 	1	1	0	44 (48)	4	0/4*	149.8 Gbps
	1	1	0	20 (24)	4	0/4*	101.8 Gbps

Aruba 3500 yl Switch Series at a glance
 Robust Layer 3 switch with PoE+ delivers performance and ease of use for enterprise edge and branch office deployments. It offers low latency with increased packet buffering and conveniently has two built-in 10GbE ports and an optional module for two additional 10GbE ports. Features include IPv4 BGP, policy based routing, and IPv4/IPv6 OSPF.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

*Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 3500 yl Switch Series

Modules

- Aruba 10GbE 2-port X2/2-port CX4 yl Module (J8694A)
- Aruba 10GbE 2-port SFP+/2-port CX4 yl Module (J9312A)

EPS/RPS

- Aruba 620 Redundant/External Power Supply (J8696A)
- Aruba 630 Redundant and/or External Power Supply (J9443A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)

License

- Aruba 3500 yl Premium License (J8993A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	Dual personality ports (max)	10GBASE-X (max)	Switching capacity
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Aruba 2920 Switch Series



Aruba 2920-24G Switch (J9726A)	1	3	20 (24)	0	4	0/4*	128 Gbps
Aruba 2920-24G-PoE+ Switch (J9727A)	1	3	0	20 (24)	4	0/4*	128 Gbps
Aruba 2920-48G Switch (J9728A)	1	3	44 (48)	0	4	0/4*	176 Gbps
Aruba 2920-48G-PoE+ Switch (J9729A)	1	3	0	44 (48)	4	0/4*	176 Gbps
Aruba 2920-48G-PoE+ 740W Switch (J9836A)	1	3	0	44 (48)	4	0/4*	176 Gbps

Aruba 2920 Switch Series at a glance

Flexible, scalable, and future-proof Gigabit Ethernet switch for campus edge, branch offices, and SMB. A powerful HPE Networking ASIC delivers low latency, more packet buffering, and adaptive power consumption to this robust Basic Layer 3 switch that supports modular stacking (up to 4), modular 10GbE uplinks, static and RIP routing, PoE+, replaceable and upgradeable power supplies, ACLs, sFlow®, and OpenFlow for support of the latest SDN apps.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.
* Denotes the maximum number of ports supported when using module(s)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 2920 Switch Series

Modules

- Aruba 2920 2-Port 10GbE SFP+ Module (J9731A)
- Aruba 2920 2-port 10GBASE-T Module (J9732A)
- Aruba 2920 2-Port Stacking Module (J9733A)

Cables

- Aruba 2920 0.5m Stacking Cable (J9734A)
- Aruba 2920 1.0m Stacking Cable (J9735A)
- Aruba 2920 3.0m Stacking Cable (J9736A)
- Aruba 640 EPS/RPS 1m Cable (J9806A)

Power supply

- Aruba 640 External/Redundant Power Supply Shelf (J9805A)
- Aruba X331 165W 100-240VAC to 12VDC Modular Power Supply (J9739A)
- Aruba X332 575W 100-240VAC to 54VDC Modular Power Supply (J9738A)
- Aruba X332 1050W 110-240VAC/54VDC Modular Power Supply (J9737A)
- Aruba X332 1050W 110-240VAC to 54VDC Modular Power Supply (J9837A)
- Aruba X331 165W 100-240VAC to 12VDC Modular Power Supply (J9739A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	Module slots (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	Dual personality ports (max)	10GBASE-X (max)	Switching capacity
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Aruba 2915 Switch Series



Aruba 2915-8-PoE Switch (J9562A)	1	0	0	8	2	0	20 Gbps
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Aruba 2915 Switch Series at a glance

Compact and quiet 8-port fully managed basic Layer 3 Gigabit Ethernet switch with PoE is ideal for deployment in open areas, offices and environments. It has a robust Basic Layer 3 feature set includes support for static and RIP routing, sFlow, ACLs, rate limiting, IPv6 and PoE.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 2915-8G-PoE Switch

Power supply

- Aruba X520 1U Power Adapter Shelf (J9701A)

Mounting kit

- Aruba X510 1U Cable Guard (J9700A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

	Height (RU)	Module slots (max)	10/100 ports (max)	10/100 PoE+ ports (max)	10/100/1000 ports (max)	SFP (1000BASE-X) (max)	Switching capacity
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Aruba 2620 Switch Series



Aruba 2620-48-PoE+ Switch (J9627A)	1	0	0	48	2	2	17.6 Gbps
Aruba 2620-48 Switch (J9626A)	1	0	48	0	2	2	17.6 Gbps
Aruba 2620-24-PoE+ Switch (J9624A)	1	0	12	12	2	2	12.8 Gbps
Aruba 2620-24-PoE+ Switch (J9625A)	1	0	0	24	2	2	12.8 Gbps
Aruba 2620-24 Switch (J9623A)	1	0	24	0	2	2	12.8 Gbps

Aruba 2620 Switch Series at a glance
 Flexible and cost-effective Fast Ethernet switch series has a robust basic Layer 3 features set with static and RIP routing, PoE+, ACLs, sFlow, IPv6, and requires no software licensing.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 2620 Switch Series

Power supplies

- Aruba 630 Redundant and/or External Power Supply (J9443A)
- Aruba 620 Redundant/External Power Supply (J8696A)
- Aruba 600 Redundant and External Power Supply (J8168A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	Module slots (max)	10/100 PoE ports (max)	10/100/1000 ports (max)	SFP (1000BASE-X) (max)	Switching capacity
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Aruba 2615 Switch Series



Aruba 2615-8-PoE Switch (J9565A)	1	0	8	0	2	5.6 Gbps
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Aruba 2615 Switch Series at a glance
 Compact and quiet 8 port fully managed Basic Layer 3 Fast Ethernet switch with PoE is ideal for deployment in open areas, offices and environments. It has a robust Basic Layer 3 feature set includes support for static and RIP routing, sFlow, ACLs, rate limiting, IPv6, and PoE.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 2615 Switch Series

Mounting kit

- Aruba X510 1U Cable Guard (J9700A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Campus Switching

Aruba

Access (continued)

Height (RU)	Module slots (max)	10/100 ports (max)	10/100 PoE+ ports (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	Dual personality ports (max)	SFP (1000BASE-X) (max)	10GBASE-X (max)	Switching capacity
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Aruba 2530 Switch Series



Aruba 2530-48G-PoE+ Switch (J9772A)	1	0	0	0	0	48	0	4	0	104 Gbps
Aruba 2530-24G-PoE+ Switch (J9773A)	1	0	0	0	0	24	0	4	0	56 Gbps
Aruba 2530-8G-PoE+ Switch (J9774A)	1	0	0	0	0	8	2	0	0	20 Gbps
Aruba 2530-48G Switch (J9775A)	1	0	0	0	48	0	0	4	0	104 Gbps
Aruba 2530-24G Switch (J9776A)	1	0	0	0	24	0	0	4	0	56 Gbps
Aruba 2530-8G Switch (J9777A)	1	0	0	0	8	0	2	0	0	20 Gbps
Aruba 2530-48-PoE+ Switch (J9778A)	1	0	0	48	2	0	0	2	0	17.6 Gbps
Aruba 2530-24-PoE+ Switch (J9779A)	1	0	0	24	2	0	0	2	0	12.8 Gbps
Aruba 2530-8-PoE+ Switch (J9780A)	1	0	0	8	0	0	2	0	0	5.6 Gbps
Aruba 2530-48 Switch (J9781A)	1	0	48	0	2	0	0	2	0	17.6 Gbps
Aruba 2530-24 Switch (J9782A)	1	0	24	0	2	0	0	2	0	12.8 Gbps
Aruba 2530-8 Switch (J9783A)	1	0	8	0	0	0	2	0	0	5.6 Gbps
Aruba 2530-24G-2SFP+ Switch (J9856A)	1	0	0	0	24	0	0	0	2	88 Gbps
Aruba 2530-24G-PoE+-2SFP+ Switch (J9854A)	1	0	0	0	0	24	0	0	2	88 Gbps
Aruba 2530-48G-2SFP+ Switch (J9855A)	1	0	0	0	48	0	0	0	2	136 Gbps
Aruba 2530-48G-PoE+-2SFP+ Switch (J9853A)	1	0	0	0	0	48	0	0	2	136 Gbps
Aruba 2530-8-PoE+ Internal PS Switch (JL070A)	1	0	0	8	0	0	2	0	0	5.6 Gbps

Aruba 2530 Switch Series at a glance

Fully managed Layer 2 switch deliver security, reliability, and ease of use for enterprise edge, branch office, and SMB deployments. Right size switches deliver full Layer 2 capabilities with optional PoE+, 10GbE uplinks, quiet fanless models, Energy Efficient Ethernet, enhanced access security, traffic prioritization, sFlow, and IPv6 host support.

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 2530 Switch Series

Power supply

- Aruba X510 1U Cable Guard (J9700A)
- Aruba 2530 8-port Switch Power Adapter Shelf (J9820A)

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Wireless LAN

Aruba

Aruba Controller Series

	Height (RU)	Dual-personality/media ports (max)	SFP+ (10GbE) ports (max)	SFP+ 10GbE ports (max)	APs managed (max)	Concurrent devices supported (max)	Support for IEEE 802.11ac APs	IPv4 and IPv6 Layer3 services	Policy enforcement firewall
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Aruba 7200 Series Mobility Controllers



Aruba 7240XM Mobility Controller	1	2	4	0	2,048	32,768	Y	Y	Y
Aruba 7240 Mobility Controller	1	2	4	0	2,048	32,768	Y	Y	Y
Aruba 7220 Mobility Controller (Japan only)	1	0	0	4	1,024	24,576	Y	Y	Y
Aruba 7210 Mobility Controller	1	2	0	4	512	16,384	Y	Y	Y
Aruba 7205 Mobility Controller	1	0	2	0	256	8,192	Y	Y	Y

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port

Aruba 7200 Series Mobility Controllers at a glance

With a new central processor that employs up to eight cores with four threads each, it's like having a total of 32 virtual CPUs. As a result, this controller series supports up to 32,000 mobile devices and performs stateful firewall policy enforcement at 40 Gbps—plenty of capacity and speed for BYOD and 802.11ac devices.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 7200 Series Mobility Controllers

Power supplies

- PSU-350-AC
- PSU-350-DC

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	10/100/1000 ports (max)	Dual-personality/media ports (max)	SFP (100BASE-X) (max)	SFP+ 10GbE ports (max)	APs managed (max)	Concurrent devices supported (max)	Support for IEEE 802.11ac APs	Policy enforcement firewall
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Aruba 7000 Series Cloud Services Controllers



Aruba 7030 Cloud Services Controller	1	0	8	0	0	64	4,096	Y	Y
Aruba 7024 Cloud Services Controller (Japan only)	1	24 PoE+	0	0	2	32	2,048	Y	Y
Aruba 7010 Cloud Services Controller	1	4+12 PoE+	0	2	0	32	2,048	Y	Y
Aruba 7005 Cloud Services Controller	Compact	4	0	0	0	16	1,024	Y	Y

Note: Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port

Aruba 7000 Series Cloud Services Controllers at a glance

Cloud Services Controllers combine wireless, wired, and hybrid WAN services, support up to 64 APs and 24 Ethernet ports, and feature integrated WAN compression, health checks, zero-touch configuration, and policy-based routing. This series also unifies policy management with third-party security services, making it simpler and more secure to create an all-wireless workplace.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba 7000 Series Cloud Services Controllers

Power adapter

- AP-AC-12v24UN (7005 only)

Mounting kits

- SPR-RK3-MNT (7005 & 7024)
- 7005-MNT-19
- 7010-MNT-19
- 7030-MNT-19

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

Wireless LAN

Aruba

Wireless access points

Aruba 802.11ac wireless access points deliver superb Wi-Fi performance—they can be deployed as controller-managed or controllerless Aruba Instant APs depending on the design, scope and scale of your wireless network. And our Wave 2 APs come with multi-user MIMO aware ClientMatch to boost network efficiency.

Aruba 330 Series

- Multi-gigabit 11ac Wave 2 with HPE Smart Rate
 - Data sheet: arubanetworks.com/assets/ds/DS_AP330Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-330Series.pdf

Aruba 320 Series

- 802.11ac Wave 2-capable AP
 - Data sheet: arubanetworks.com/assets/ds/DS_AP320Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-320Series.pdf

Aruba 310 Series

- High performance 802.11ac Wave 2
 - Data sheet: arubanetworks.com/assets/ds/DS_AP310Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-310Series.pdf

Aruba 220 Series

- High-performance AP
 - Data sheet: arubanetworks.com/assets/ds/DS_AP220Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-220.pdf

Aruba AP-228 Series

- 802.11ac for harsh, weather-protected areas
 - Data sheet: arubanetworks.com/assets/ds/DS_AP228.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-228.pdf

Aruba 210 Series

- High-performance, cost-effective gigabit Wi-Fi for the enterprise
 - Data sheet: arubanetworks.com/products/networking/access-points/210-series/
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-210Series.pdf

Aruba 205H Series

- Cost effective dual radio AP with three local Gigabit ports
 - Data sheet: arubanetworks.com/assets/ds/DS_AP205H.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-205H.pdf

Aruba 200 series



- Our most affordable APs let you deliver gigabit Wi-Fi to everyone
 - Data sheet: arubanetworks.com/assets/ds/DS_AP200Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-200Series.pdf

Aruba 103 Series

- Low-density 802.11n
 - Data sheet: arubanetworks.com/assets/ds/DS_AP103Series.pdf
 - Ordering guide: arubanetworks.com/assets/og/OG_AP-103Series.pdf

WAN

Routers

Routers		Height (RU)	Module slots	SDRAM (included/available)	Compact Flash slot	Hardware hot-swap	Routing performance (PPS)	Routing/Switching capacity	Routing table size
HPE 8800 Router Series									
 	HPE 8812 Router Chassis (JC150B)	17	12 + 2 slots	2/4 GB	1	Yes	864 million	1.44 Tbps	3 million entries
	HPE 8808 Router Chassis (JC149B)	21	8 + 2 slots	2/4 GB	1	Yes	576 million	960 Gbps	3 million entries
	HPE 8805 Router Chassis (JC148B)	11	5 + 2 slots	2/4 GB	1	Yes	360 million	600 Gbps	3 million entries
	HPE 8800 Router Series at a glance High-end enterprise WAN routers that operate at the WAN edge and core layers of campus and data center locations. Enables high-performance WAN routing with up to 864 Mpps forwarding and up to 1.44 Tbps switching capacity; and provides carrier-class H-QoS, dynamic routing, MPLS, IPv4/IPv6, multicast, security, and availability.								

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE 8800 Router Series

Router modules

- HPE 8800 Single Fabric Main Processing Unit (JC597A)
- HPE 8800 Dual Fabric Main Processing Unit (JC596A)
- HPE 8800 Single Service Processing Engine Module (JC139A)
- HPE 8800 Dual Service Processing Engine Module (JC142A)
- HPE 8800 Single Service Processing Engine Enhanced Module (JC130A)
- HPE 8800 Dual Service Processing Engine Enhanced Module (JC133A)
- HPE 8800 1-port 10GbE XFP Module (JC129A)
- HPE 8800 1-port OC-3/STM-1 (E1/T1) CPOS/8-port GbE SFP Module (JC477A)
- HPE 8800 1-port OC-12/STM-4 (E3/T3) CPOS/4-port GbE SFP Module (JC480A)
- HPE 8800 1-port OC-48/STM-16 (OC-3) CPOS SFP Module (JC481A)
- HPE 8800 1-port OC-192c/STM-64c POS XFP Module (JC487A)
- HPE 8800 1-port OC-192c/STM-64c RPR XFP Module (JC489A)
- HPE 8800 1-port OC-12c/STM-4c ATM SFP Module (JC491A)
- HPE 8800 2-port OC-3/STM-1 (E1/T1) CPOS/8-port GbE SFP Module (JC478A)
- HPE 8800 2-port OC-3c/STM-1c POS SFP/6-port GbE SFP Module (JC483A)
- HPE 8800 2-port OC-12c/STM-4c POS SFP/6-port GbE SFP Module (JC484A)
- HPE 8800 2-port OC-48c/STM-16c POS SFP/4-port GbE SFP Module (JC485A)
- HPE 8800 2-port OC-48c/STM-16c RPR SFP Module (JC488A)
- HPE 8800 2-port 10GbE XFP Service Processing Module (JC605A)
- HPE 8800 4-port OC-3/STM-1 (E3/T3) CPOS/4-port GbE SFP

Module (JC479A)

- HPE 8800 4-port OC-48c/STM-16c POS SFP Module (JC486A)
- HPE 8800 4-port OC-3c/STM-1c ATM SFP Module (JC490A)
- HPE 8800 4-port 10GbE XFP Service Processing Module (JC602A)
- HPE 8800 8-port E1/T1/8-port SFP Module (JC134A)
- HPE 8800 8-port OC-3c/OC-12c POS/GbE SFP Module (JC482A)
- HPE 8800 10-port GbE SFP Module (JC131A)
- HPE 8800 16-port GbE SFP/8-port GbE Combo Service Processing Module (JC606A)
- HPE 8800 20-port 1000BASE-X Module (JC132B)
- HPE 8800 20-port 10/100/1000 Ethernet Electrical Interface Module (JC135B)
- HPE 8800 32-port E1/T1/2-port GbE SFP Module (JC145A)
- HPE 8800 48-port GbE SFP Service Processing Module (JC604A)
- HPE 8800 48-port Gig-T Service Processing Module (JC603A)
- HPE 8800 Net Analysis Service Processing Module (JC143A)
- HPE 8800 NAT Processing Module (JC144A)
- HPE 8800 Single Processor Service Engine Module (JC598A)
- HPE 8800 Dual Processor Service Engine Module (JC599A)
- HPE 8800 Network Address Translation Service Module (JC607A)
- HPE 8800 Enhanced Dual Processor Service Engine Module (JC601A)
- HPE 8800 Network Analysis Service Module (JC608A)
- HPE 8800 Enhanced Single Processor Service Engine Module (JC600A)

Memory

- HPE 8800 1GB SDRAM (JC136A)
- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)

- HPE 2GB Registered DDR2 SDRAM Memory (JC609A)

Mounting kit

- HPE X421 Chassis Universal 4-post Rack Mounting Kit (JC665A)

License

- HPE 8800 Router Software License (JC157A)

AC power supplies

- HPE 9500 3500W AC Power Frame (JC111A)
- HPE 9500/8800 1800W AC Power Supply (JC110B)

DC power supply



- HPE 9500/8800 3500W DC Power Supply (JC473A)
- HPE 9500/8800 2000W 36-75V DC Power Supply (JC029B)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)		Height (U)	Module slots	Memory size (default/max)	Compact Flash (include + external)	Hardware hot-swap	Routing performance (MPPS)	Routing table size (entries)
HPE FlexNetwork HSR6800 Router Series								
 	HPE FlexNetwork HSR6802 Router Chassis (JG361A)	5	2 SAP® or 4 HIM, or 8 MIM + 2 MPU	4G/4G	1+1	Yes	120	4 million
	HPE FlexNetwork HSR6804 Router Chassis (JG362A)	7	4 SAP or 8 HIM, or 16 MIM + 2 MPU	4G/4G	1+1	Yes	240	4 million
	HPE FlexNetwork HSR6808 Router Chassis (JG363A)	20	1 SF; 8 SAP or 16 HIM, or 32 MIM + 2 MPU	4G/4G	1+1	Yes	420	4 million
HPE FlexNetwork HSR6800 Router Series at a glance High performance WAN services routers designed for large-scale data center and high-end campus WAN deployments. Built on a multicore distributed processing architecture, the routers scale up to 420 Mpps in IP forwarding and up to 2 Tbps in switching capacity, delivering robust routing (MPLS, IPv4, IPv6, dynamic routing, and nested QoS), security (stateful firewall, IPsec/Dynamic VPN, DoS protection, and NAT), full Layer 2 switching, and traffic analysis capabilities.								

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork HSR6800 Router Series

Router modules

- HPE FlexNetwork HSR6800 RSE-X2 Router Main Processing Unit (JG364A)
- HPE FlexNetwork HSR6800 FIP-600 Flexible Interface Platform Router Module (JG360A)
- HPE FlexNetwork HSR6800 FIP-310 Flexible Interface Platform Module (JG672A)
- HPE FlexNetwork HSR6800 FIP-300 Flexible Interface Platform Module (JG671A)
- HPE FlexNetwork 6600 FIP-210 Flexible Interface Platform Module (JC167B)
- HPE FlexNetwork 6600 FIP-110 Flexible Interface Platform Module (JC166B)
- HPE FlexNetwork HSR6808 SFE-X1 Switch Fabric Engine Router Module (JG365A)
- HPE FlexNetwork 6600 1-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC161A)
- HPE FlexNetwork 6600 1-port 10GbE XFP HIM Module (JC168A)
- HPE FlexNetwork 6600 1-port OC-3/STM-1 (E3/T3) CPOS SFP HIM Module (JC170A)
- HPE FlexNetwork 6600 1-port OC-3c/STM-1c ATM SFP HIM Module (JC175A)
- HPE FlexNetwork 6600 1-port OC-48c/STM-16c POS/CPOS SFP HIM Module (JC494A)
- HPE FlexNetwork MSR 1-port T3/CT3/FT3 MIM Module (JD628A)
- HPE FlexNetwork MSR 1-port FE3/CE3 MIM Module (JD630A)
- HPE FlexNetwork 6600 2-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC162A)
- HPE FlexNetwork 6600 2-port OC-3/STM-1 (E3/T3) CPOS SFP HIM Module (JC169A)

- HPE FlexNetwork 6600 2-port OC-3c/STM-1c or 1-port OC-12c/STM-4c POS SFP HIM Module (JC173A)
- HPE FlexNetwork 6600 2-port OC-48c/STM-16c RPR SFP HIM Module (JC576A)
- HPE FlexNetwork 6600 2-port OC-3c/STM-1c ATM SFP HIM Module (JC495A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial MIM Module (JD540A)
- HPE FlexNetwork HSR6800 4-port 10GbE SFP+ Service Aggregation Platform (SAP) Router Module (JG366A)
- HPE FlexNetwork 6600 4-port Gig-T HIM Module (JC163A)
- HPE FlexNetwork 6600 4-port GbE SFP HIM Module (JC171A)
- HPE FlexNetwork 6600 4-port OC-3c/STM-1c or 2-port OC-12c/STM-4c POS SFP HIM Module (JC172A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial MIM Module (JD541A)
- HPE FlexNetwork 6600 8-port GbE SFP HIM Module (JC174A)
- HPE FlexNetwork 6600 8-port 10/100Base-T HIM Module (JC575A)
- HPE FlexNetwork MSR 8-port T1/Fractional T1 MIM Module (JC159A)
- HPE FlexNetwork MSR 8-port T1/CT1/PRI MIM Module (JC160A)
- HPE FlexNetwork MSR 8-port Enhanced Sync/Async Serial MIM Module (JD552A)
- HPE FlexNetwork MSR 8-port E1/CE1/PRI (75ohm) MIM Module (JD563A)
- HPE FlexNetwork MSR 8-port E1/Fractional E1 (75ohm) MIM Module (JF255A)
- HPE FlexNetwork 6600 8-port OC-3c/OC-12c POS/GbE SFP HIM Module (JG673A)
- HPE FlexNetwork 6600 8-port Gig-T HIM Module (JC164A)

- HPE FlexNetwork 6600 24-port GbE SFP Service Aggregation Platform Module (JC568A)
- HPE FlexNetwork 6600 48-port GbE SFP Service Aggregation Platform Module (JG556A)
- HPE FlexNetwork 6600 48-port Gig-T Service Aggregation Platform Module (JC567A)

Security module

- HPE FlexNetwork 6600 VPN Firewall Module (JC639A)

Power supplies

- HPE FlexNetwork 6600 650W AC Power Supply (JC492A)
- HPE FlexNetwork 6600 650W DC Power Supply (JC493A)
- HPE FlexNetwork HSR6800 1200W DC Power Supply (JG334A)
- HPE FlexNetwork HSR6800 1200W AC Power Supply (JG335A)

Fan options

- HPE FlexNetwork HSR6802 Router Spare Fan Assembly (JG367A)
- HPE FlexNetwork HSR6804 Router Spare Fan Assembly (JG368A)
- HPE FlexNetwork HSR6808 Router Spare Fan Assembly (JG369A)

Memory


- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X610 1GB DDR2 SDRAM Memory (JC071A)
- HPE 2GB DDR2 SDRAM Memory (JG205A)
- HPE X610 2G VLP DDR3 SDRAM Memory (JG482A)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

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Routers

Routers (continued)		Height (U)	Module slots	Memory size (default/max)	Compact Flash (include + external)	Hardware hot-swap	Routing performance (MPPS)	Routing table size (entries)
HPE FlexNetwork HSR6600 Router Series								
	HPE FlexNetwork HSR6602-G Router (JG353A)	2 RU	1 FIP or 2 HIM, or 4 MIM	2G/2G	1+1	Yes	9	1 million (IPv4/IPv6)
	HPE FlexNetwork HSR6602-XG Router (JG354A)	2 RU	1 FIP or 2 HIM, or 4 MIM	4G/4G	1+1	Yes	15	4 million (IPv4), 2 million (IPv6)

HPE FlexNetwork HSR6600 Router Series at a glance

High performance WAN routers ideal for small-to-medium campus WAN edge/aggregation and high-end branch deployments. Built on a multicore centralized processing architecture, the series delivers robust routing, security, full Layer 2 switching, and modular WAN and LAN interface options in a small 2RU form factor. Additionally, the series offers carrier-class reliability to reduce disruption from network or system failures.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork HSR6600 Router Series

Router modules

- HPE FlexNetwork 6600 FIP-10 Flexible Interface Platform Router Module (JG357A)
- HPE FlexNetwork 6600 FIP-20 Flexible Interface Platform Router Module (JG358A)
- HPE FlexNetwork 6600 1-port 10GbE XFP HIM Module (JC168A)
- HPE FlexNetwork 6600 1-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC161A)
- HPE FlexNetwork 6600 1-port OC-3c/STM-1c ATM SFP HIM Module (JC175A)
- HPE FlexNetwork 6600 1-port OC-48c/STM-16c POS/CPOS SFP HIM Module (JC494A)
- HPE FlexNetwork MSR 1-port T3/CT3/FT3 MIM Module (JD628A)
- HPE FlexNetwork MSR 1-port FE3/CE3 MIM Module (JD630A)
- HPE FlexNetwork 6600 2-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC162A)
- HPE FlexNetwork 6600 2-port OC-3c/STM-1c or 1-port OC-12c/STM-4c POS SFP HIM Module (JC173A)

- HPE FlexNetwork 6600 2-port OC-3c/STM-1c ATM SFP HIM Module (JC495A)
- HPE FlexNetwork 6600 2-port OC-48c/STM-16c RPR SFP HIM Module (JC576A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial MIM Module (JD540A)
- HPE FlexNetwork 6600 4-port GbE SFP HIM Module (JC171A)
- HPE FlexNetwork 6600 4-port Gig-T HIM Module (JC163A)
- HPE FlexNetwork 6600 4-port OC-3c/STM-1c or 2-port OC-12c/STM-4c POS SFP HIM Module (JC172A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial MIM Module (JD541A)
- HPE FlexNetwork 6600 8-port Gig-T HIM Module (JC164A)
- HPE FlexNetwork 6600 8-port 10/100Base-T HIM Module (JC575A)
- HPE FlexNetwork 6600 8-port GbE SFP HIM Module (JC174A)
- HPE FlexNetwork MSR 8-port T1/Fractional T1 MIM Module (JC159A)
- HPE FlexNetwork MSR 8-port T1/CT1/PRI MIM Module (JC160A)

- HPE FlexNetwork MSR 8-port Enhanced Sync/Async Serial MIM Module (JD552A)
- HPE FlexNetwork MSR 8-port E1/Fractional E1 (75ohm) MIM Module (JF255A)

Power supplies

- HPE FlexNetwork 5800 300W AC Power Supply (JC087A)
- HPE FlexNetwork 5800 300W DC Power Supply (JC090A)

Fan tray

- HPE FlexNetwork HSR6602 Router Spare Fan Assembly (JG359A)

Memory


- HPE X610 2G VLP DDR3 SDRAM Memory (JG482A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)		Height (U)	Module slots	Compact Flash slot	Hardware hot-swap	Routing performance (MPPS)	Routing table size (entries)
HPE FlexNetwork 6600 Router Series							
	HPE FlexNetwork 6616 Router Chassis (JC496A)	20	16 HIM or 8 SAP + 2 MPU	1	Yes	Up to 252	2 million
	HPE FlexNetwork 6608 Router Chassis (JC177B)	7	8 HIM or 4 SAP + 2 MPU	1	Yes	Up to 108	2 million (IPv4), 5 million (IPv6)
	HPE FlexNetwork 6604 Router Chassis (JC178B)	5	4 HIM or 2 SAP + 2 MPU	1	Yes	Up to 36	2 million (IPv4), 5 million (IPv6)
	HPE FlexNetwork 6602 Router (JC176A)	1	2 HIM	1	Yes	up to 4.5	1 million (IPv4), 3 million (IPv6)
HPE FlexNetwork 6600 Router Series at a glance Series of 16-, 8-, 4-, and 2-HIM-slot routers with a complete portfolio of LAN and WAN interface modules and a hardware-based encryption engine. Fully distributed architecture (6604/6608/6616) of the series eliminates single points of failure.							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork 6600 Router Series

Router modules

- HPE FlexNetwork 6600 RPE-X1 Main Processing Unit (JC165A)
- HPE FlexNetwork 6600 RSE-X1 Main Processing Unit (JC566A)
- HPE FlexNetwork 6600 FIP-110 Flexible Interface Platform Module (JC166B)
- HPE FlexNetwork 6600 FIP-210 Flexible Interface Platform Module (JC167B)
- HPE FlexNetwork 6600 1-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC161A)
- HPE FlexNetwork 6600 1-port 10GbE XFP HIM Module (JC168A)
- HPE FlexNetwork 6600 1-port OC-3/STM-1 (E3/T3) CPOS SFP HIM Module (JC170A)
- HPE FlexNetwork 6600 1-port OC-48c/STM-16c POS/CPOS SFP HIM Module (JC494A)
- HPE FlexNetwork 6600 1-port OC-3c/STM-1c ATM SFP HIM Module (JC175A)
- HPE FlexNetwork 6600 2-port OC-3c/STM-1c or 1-port OC-12c/STM-4c POS SFP HIM Module (JC173A)
- HPE FlexNetwork 6600 2-port OC-3/STM-1 (E1/T1) CPOS SFP HIM Module (JC162A)
- HPE FlexNetwork 6600 2-port OC-3/STM-1 (E3/T3) CPOS SFP HIM Module (JC169A)
- HPE FlexNetwork 6600 2-port OC-3c/STM-1c ATM SFP HIM Module (JC495A)
- HPE FlexNetwork 6600 2-port OC-48c/STM-16c RPR SFP HIM Module (JC576A)
- HPE FlexNetwork 6600 4-port OC-3c/STM-1c or 2-port OC-12c/STM-4c POS SFP HIM Module (JC172A)
- HPE FlexNetwork 6600 4-port GbE SFP HIM Module (JC171A)
- HPE FlexNetwork 6600 4-port Gig-T HIM Module (JC163A)
- HPE FlexNetwork 6600 8-port GbE SFP HIM Module (JC174A)
- HPE FlexNetwork 6600 8-port OC-3c/OC-12c POS/GbE SFP HIM

Module (JG673A)

- HPE FlexNetwork 6600 8-port Gig-T HIM Module (JC164A)
- HPE FlexNetwork 6600 8-port 10/100BASE-T HIM Module (JC575A)
- HPE FlexNetwork 6600 24-port GbE SFP Service Aggregation Platform Module (JC568A)
- HPE FlexNetwork 6600 48-port GbE SFP Service Aggregation Platform Module (JG556A)
- HPE FlexNetwork 6600 48-port Gig-T Service Aggregation Platform Module (JC567A)
- HPE FlexNetwork MSR 1-port FE3/CE3 MIM Module (JD630A)
- HPE FlexNetwork MSR 1-port T3/CT3/FT3 MIM Module (JD628A)
- HPE FlexNetwork MSR 1-port T3/CT3/FT3 HMIM Module (JG435A)
- HPE FlexNetwork MSR 1-port E3/CE3/FE3 HMIM Module (JG436A)
- HPE FlexNetwork MSR 2-port E1/CE1/PRI HMIM Module (JG450A)
- HPE FlexNetwork MSR 2-port Gig-T MIM Module (JD548A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial MIM Module (JD541A)
- HPE FlexNetwork MSR 4-port E1/CE1/PRI HMIM Module (JG451A)
- HPE FlexNetwork MSR 8-port Enhanced Sync/Async Serial MIM Module (JD552A)
- HPE FlexNetwork MSR 8-port E1/CE1/PRI (75ohm) MIM Module (JD563A)
- HPE FlexNetwork MSR 8-port E1/Fractional E1 (75ohm) MIM Module (JF255A)
- HPE FlexNetwork MSR 8-port T1/CT1/PRI MIM Module (JC160A)
- HPE FlexNetwork MSR 8-port T1/Fractional T1 MIM Module (JC159A)
- HPE FlexNetwork MSR 8-port E1/CE1/PRI (75ohm) HMIM Module (JG452A)

Memory

- HPE FlexNetwork 6600 1GB SDRAM (JC179A)

Power supplies

- HPE FlexNetwork 7500 650W AC Power Supply (JD217A)
- HPE FlexNetwork 6600 650W AC Power Supply (JC492A)
- HPE FlexNetwork 6600 650W DC Power Supply (JC493A)
- HPE FlexNetwork 7500 650W DC Power Supply (JD209A)
- HPE RPS 800 Redundant Power Supply (JD183A)

Fan options

- HPE FlexNetwork 6608 Spare Fan Assembly (JC570A)
- HPE FlexNetwork 6604 Spare Fan Assembly (JC569A)
- HPE FlexNetwork 6616 Spare Fan Assembly (JC571A)

Networking frames

- HPE FlexNetwork 6616 Dustproof Frame (JC574A)
- HPE FlexNetwork 6608 Dustproof Frame (JC573A)
- HPE FlexNetwork 6604 Dustproof Frame (JC572A)

License

- HPE FlexNetwork 6600 Router Software License (JC180A)

Transceivers

- See pages 83-89 for the Networking Transceiver Matrix.

Note: TAA-compliant SKUs are available for the HPE FlexNetwork 6600 Router Series. For details, refer to the **HPE FlexNetwork 6600 TAA-compliant Router**.

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Routers

Routers (continued)											
		Height (RU)	Module slots	Included ports	USB ports	SDRAM (Included/ Available)	Compact Flash (Internal fixed)	Compact Flash slot	Power supply slots	Routing performance (PPS)	IPsec throughput (bps)
HPE FlexNetwork MSR4000 Router Series											
	HPE FlexNetwork MSR4080 Router Chassis (JG402A)	5	2 main processing unit (MPU) slots 1 service processing unit (SPU) slot 8 HMIM slots	0	0	0	0	0	4	SPU-100: 10Mpps SPU-200: 20Mpps SPU-300: 36Mpps	SPU-100: 3.8 Gbps SPU-200: 8 Gbps SPU-300: 28 Gbps
	HPE FlexNetwork MSR4060 Router Chassis (JG403A)	4	2 main processing unit (MPU) slots 1 service processing unit (SPU) slot 6 HMIM slots	0	0	0	0	0	4	SPU-100: 10Mpps SPU-200: 20Mpps SPU-300: 36Mpps	SPU-100: 3.8 Gbps SPU-200: 8 Gbps SPU-300: 28 Gbps
	HPE FlexNetwork MSR4000 MPU-100 Main Processing Unit (JG412A)	1	0	1 GE management port	1	2 GB/ 4 GB	512 MB	1	0	0	0
	HPE FlexNetwork MSR4000 SPU-100 Service Processing Unit (JG413A)	1	0	4 GE (Combo)	2	2 GB	0	0	0	10 M	3.8 G
	HPE FlexNetwork MSR4000 SPU-200 Service Processing Unit (JG414A)	1	0	4 GE (Combo), (1) 10 GE SFP+	2	2 GB	0	0	0	20 M	8 G
	HPE FlexNetwork MSR4000 SPU-300 Service Processing Unit (JG670A)	1	0	4 GE (Combo), (1) 10 GE SFP+	2	2 GB	0	0	0	36 M	28 G
HPE FlexNetwork MSR4000 Router Series at a glance Features a modular design that delivers unmatched application services for extra-large branch offices, headquarters, and campuses while reducing complexity, and simplifying configuration, deployment, and management. Provides a full-featured, resilient routing platform, including IPv6 and MPLS, up to 36 Mpps forwarding capacity, and 28 Gbps of IPsec VPN encrypted throughput.											

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork MSR4000 Router Series

Router modules

- HPE FlexNetwork MSR4000 MPU-100 Main Processing Unit (41E FlexNetwork2A)
- HPE FlexNetwork MSR4000 SPU-100 Service Processing Unit (JG413A)
- HPE FlexNetwork MSR4000 SPU-200 Service Processing Unit (JG414A)
- HPE FlexNetwork MSR4000 SPU-300 Service Processing Unit (JG670A)
- HPE FlexNetwork MSR G2 128-channel Voice Processing Module (JG417A)
- HPE FlexNetwork MSR Open Application Platform (OAP) with VMware vSphere MIM Module (JG532A)
- HPE FlexNetwork MSR Medium Survivable Branch Communication MIM Module powered by Skype for Business® (JG588A)
- HPE FlexNetwork MSR 0.5U HMIM Adapter Module (JG415A)
- HPE FlexNetwork MSR 1U HMIM Adapter Module (JG416A)
- HPE FlexNetwork MSR Open Application Platform (OAP) with VMware vSphere MIM Module (JG532A)
- HPE FlexNetwork MSR 1-port E1 Voice HMIM Module (JG429A)
- HPE FlexNetwork MSR 1-port OC-3/STM-1 CPOS HMIM Module (JG428A)
- HPE FlexNetwork MSR 1-port T1 Voice HMIM Module (JG430A)
- HPE FlexNetwork MSR 2-port E1 Voice HMIM Module (JG431A)
- HPE FlexNetwork MSR 4-port FXS HMIM Module (JG446A)
- HPE MSR 4-port FXO HMIM Module (JG447A)

- HPE MSR 4-port E and M HMIM Module (JG448A)
- HPE MSR 4-port Enhanced Sync/Async Serial HMIM Module (JG442A)
- HPE MSR 8-port Enhanced Sync/Async Serial HMIM Module (JG443A)
- HPE MSR 2-port E1/CE1/PRI HMIM Module (JG450A)
- HPE MSR 4-port E1/CE1/PRI HMIM Module (JG451A)
- HPE MSR 4-port E1/Fractional E1 HMIM Module (JG453A)
- HPE MSR 8-port E1/CE1/PRI (75ohm) HMIM Module (JG452A)
- HPE MSR 2-port T1/CT1/PRI HMIM Module (JG456A)
- HPE MSR 4-port T1/Fractional T1 HMIM Module (JG457A)
- HPE MSR 1-port E3/CE3/FE3 HMIM Module (JG436A)
- HPE MSR 1-port T3/CT3/FT3 HMIM Module (JG435A)
- HPE MSR 1-port OC-3c/STM-1c POS HMIM Module (JG438A)
- HPE FlexNetwork MSR 2-port Gig-T HMIM Module (JG420A)
- HPE FlexNetwork MSR 4-port Gig-T HMIM Module (JG421A)
- HPE FlexNetwork MSR 8-port Gig-T HMIM Module (JG422A)
- HPE FlexNetwork MSR 2-port 1000BASE-X HMIM Module (JG423A)
- HPE FlexNetwork MSR 4-port 1000BASE-X HMIM Module (JG424A)
- HPE FlexNetwork MSR 8-port 1000BASE-X HMIM Module (JG425A)
- HPE FlexNetwork MSR 24-port Gig-T Switch HMIM Module (JG426A)
- HPE FlexNetwork MSR 24-port Gig-T PoE Switch HMIM Module (JG427A)

- HPE MSR 8-port 10/100/1000BASE-T/2-port 1000BASE-X (Combo) Switch HMIM Module (JG741A)
- HPE FlexNetwork MSR 2-port T1 Voice HMIM Module (JG432A)
- HPE FlexNetwork MSR 16-port FXS HMIM Module (JG434A)
- HPE FlexNetwork MSR 8-port 100BASE-FX/1000BASE-X/4-port 1000BASE-T (Combo) L2/L3 HMIM Module (JH238A)
- HPE FlexNetwork MSR 16-port Enhanced Async Serial HMIM Module (JG445A)
- HPE FlexNetwork MSR 8-port E1/CE1/T1/CT1/PRI HMIM Module (JH169A)
- HPE FlexNetwork MSR 8-port E1/Fractional E1/T1/Fractional T1 HMIM Module (JH172A)

Power supplies

- HPE X351 300W -48/-60VDC to 12VDC Power Supply (JG528A)
- HPE FlexNetwork 5800 750W AC POE Power Supply (JC089A)
- HPE X351 300W 100-240VAC to 12VDC Power Supply (JG527A)

Memory


- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)
- HPE X610 2GB DDR3 SDRAM UDIMM Memory (JG529A)
- HPE X610 4GB DDR3 SDRAM UDIMM Memory (JG530A)

Transceivers

- See pages 83–89 for the HPE Networking Transceiver Matrix.

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Routers

Routers (continued)											
	Height (RU)	Module slots	Included Gigabit ports	USB ports	SDRAM (Included/ Available)	Compact Flash (Internal fixed)	Compact Flash slot	Power supply slots	Routing performance (PPS)	IPsec throughput (Gbps)	
HPE FlexNetwork MSR3000 Router Series											
	HPE FlexNetwork MSR3012 AC Router (JG409A)	1	1 HMIM slot; 2 SIC slots; 1 VPM slot	3 GE (1 Combo)	1	1 GB	256 MB	0	0	2.6 M	1.9 G
	HPE FlexNetwork MSR3012 DC Router (JG410A)	1	1 HMIM slot; 2 SIC slots; 1 VPM slot	3 GE (1 Combo)	1	1 GB	256 MB	0	0	2.6 M	1.9 G
	HPE FlexNetwork MSR3024 DC Router (JG407A)	1	2 HMIM slots; 4 SIC slots or 2 DSIC slots; 1 VPM slot	3 GE (1 Combo)	1	2 GB/ 4 GB	256 MB	1	0	2.6 M	1.9 G
	HPE FlexNetwork MSR3024 PoE Router (JG408A)	1	2 HMIM slots; 4 SIC slots or 2 DSIC slots; 1 VPM slot	3 GE (1 Combo)	1	2 GB/ 4 GB	256 MB	1	0	2.6 M	1.9 G
	HPE FlexNetwork MSR3024 AC Router (JG406A)	1	2 HMIM slots; 4 SIC slots or 2 DSIC slots; 1 VPM slot	3 GE (1 Combo)	1	2 GB/ 4 GB	256 MB	1	0	2.6 M	1.9 G
	HPE FlexNetwork MSR3044 Router (JG405A)	2	4 HMIM slots; 4 SIC slots or 2 DSIC slots; 2 VPM slots	3 GE (2 Combo)	2	2 GB/ 4 GB	256 MB	1	2	3.5 M	1.9 G
	HPE FlexNetwork MSR3064 Router (JG404A)	3	6 HMIM slots; 4 SIC slots or 2 DSIC slots; 2 VPM slots	3 GE (2 Combo)	2	2 GB/ 4 GB	256 MB	1	2	5 M	3.3 G
<p>HPE FlexNetwork MSR3000 Router Series at a glance</p> <p>Features a modular design that delivers unmatched application services for medium- to large-sized branch offices while reducing complexity, and simplifying configuration, deployment, and management. Provides a full-featured, resilient routing platform, including IPv6 and MPLS, up to five Mpps forwarding capacity, and 3.3 Gbps of IPsec VPN encrypted throughput. Also support HPE Open Application Platform (OAP) modules to deliver integrated industry-leading HPE AllianceOne partner applications such as virtualization, UC&C, and application optimization capabilities. Offers lasting investment protection and helps reduce capital and operating expenses.</p>											

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork MSR3000 Router Series Router modules

- HPE FlexNetwork MSR 1-port 10/100Base-T SIC Module (JD545B)
- HPE FlexNetwork MSR 1-port 100Base-X SIC Module (JF280A)
- HPE FlexNetwork MSR 1-port E1 Voice SIC Module (JD575A)
- HPE FlexNetwork MSR 1-port T1 Voice SIC Module (JD576A)
- HPE MSR 1-port E1/T1 Voice SIC Module (JH240A)
- HPE FlexNetwork MSR 1-port E1/Fractional E1 (75ohm) SIC Module (JD634B)
- HPE FlexNetwork MSR 1-port T1/Fractional T1 SIC Module (JD538A)
- HPE FlexNetwork MSR 1-port Enhanced Serial SIC Module (JD557A)
- HPE FlexNetwork MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE FlexNetwork MSR 1-port E1/CE1/PRI SIC Module (JG604A)
- HPE FlexNetwork MSR 1-port GbE Combo SIC Module (JG738A)
- HPE FlexNetwork MSR 1-port ADSL over POTS SIC Module (JD537A)
- HPE FlexNetwork MSR 1-p 8-wire G.SHDSL DSIC Module (JG191A)
- HPE FlexNetwork MSR 1-port E1 Voice HMIM Module (JG429A)
- HPE FlexNetwork MSR 1-port T1 Voice HMIM Module (JG430A)
- HPE FlexNetwork MSR 1-port E3/CE3/FE3 HMIM Module (JG436A)
- HPE FlexNetwork MSR 1-port T3/CT3/FT3 HMIM Module (JG435A)
- HPE FlexNetwork MSR 1-port OC-3c/STM-1c POS HMIM Module (JG438A)
- HPE FlexNetwork MSR 1-port OC-3/STM-1 CPOS HMIM Module (JG428A)
- HPE FlexNetwork MSR 2-port FXO SIC Module (JD558A)
- HPE FlexNetwork MSR 2-port FXS SIC Module (JD560A)
- HPE FlexNetwork MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE FlexNetwork MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE FlexNetwork MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial SIC Module (JG736A)
- HPE FlexNetwork MSR 2-port E1 Voice HMIM Module (JG431A)
- HPE FlexNetwork MSR 2-port T1/CT1/PRI HMIM Module (JG456A)
- HPE FlexNetwork MSR 2-port E1/CE1/PRI HMIM Module (JG450A)
- HPE FlexNetwork MSR 2-port Gig-T HMIM Module (JG420A)
- HPE FlexNetwork MSR 2-port 1000BASE-X HMIM Module (JG423A)
- HPE FlexNetwork MSR 2-port T1 Voice HMIM Module (JG432A)
- HPE FlexNetwork MSR 4-port 10/100Base-T Switch SIC Module (JD573B)
- HPE FlexNetwork MSR 4-port 10/100Base-T PoE Switch SIC Module (JD620A)
- HPE MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial SIC Module (JG737A)
- HPE FlexNetwork MSR 4-port Gig-T Switch SIC Module (JG739A)
- HPE FlexNetwork MSR 4-port Gig-T PoE Switch SIC Module (JG740A)
- HPE FlexNetwork MSR 4-port FXS HMIM Module (JG446A)
- HPE FlexNetwork MSR 4-port FXO HMIM Module (JG447A)
- HPE FlexNetwork MSR 4-port E and M HMIM Module (JG448A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial HMIM Module (JG442A)
- HPE FlexNetwork MSR 4-port E1/CE1/PRI HMIM Module (JG451A)
- HPE FlexNetwork MSR 4-port E1/Fractional E1 HMIM Module (JG453A)
- HPE FlexNetwork MSR 4-port T1/Fractional T1 HMIM Module (JG457A)
- HPE FlexNetwork MSR 4-port Gig-T HMIM Module (JG421A)
- HPE FlexNetwork MSR 4-port 1000BASE-X HMIM Module (JG424A)
- HPE FlexNetwork MSR 8-port 100BASE-FX/1000BASE-X/4-port 1000BASE-T (Combo) L2/L3 HMIM Module (JH238A)

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- HPE FlexNetwork MSR 8-port Enhanced Sync/Async Serial HMIM Module (JG443A)
- HPE FlexNetwork MSR 8-port E1/CE1/PRI (75ohm) HMIM Module (JG452A)
- HPE FlexNetwork MSR 8-port Gig-T HMIM Module (JG422A)
- HPE FlexNetwork MSR 8-port 1000BASE-X HMIM Module (JG425A)
- HPE FlexNetwork MSR 8-port E1/CE1/T1/CT1/PRI HMIM Module (JH169A)
- HPE FlexNetwork MSR 8-port E1/Fractional E1/T1/Fractional T1 HMIM Module (JH172A)
- HPE FlexNetwork MSR 8-port 10/100/1000BASE-T/2-port 1000BASE-X (Combo) Switch HMIM Module (JG741A)
- HPE FlexNetwork MSR 8-port Async Serial SIC Module (JF281A)
- HPE FlexNetwork MSR 9-port 10/100Base-T Switch DSIC Module (JD574B)
- HPE FlexNetwork MSR 9-port 10/100Base-T PoE Switch DSIC Module (JD621A)
- HPE FlexNetwork MSR 16-port FXS HMIM Module (JG434A)
- HPE FlexNetwork MSR 16-port Async Serial SIC Module (JG186A)
- HPE FlexNetwork MSR 16-port Enhanced Async Serial HMIM Module (JG445A)
- HPE FlexNetwork MSR 24-port Gig-T Switch HMIM Module (JG426A)
- HPE FlexNetwork MSR 24-port Gig-T PoE Switch HMIM Module (JG427A)

- HPE FlexNetwork MSR HSPA+/WCDMA SIC Module (JG929A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Verizon (JG742A)
- HPE FlexNetwork MSR 4G LTE SIC Module for ATT (JG743A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Global (JG744A)
- HPE MSR 4G LTE SIC Module for Global/LTE 800/900/1800/2100/2600MHz UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG744B)
- HPE FlexNetwork MSR G2 128-channel Voice Processing Module (JG417A)
- HPE FlexNetwork MSR 1U HMIM Adapter Module (JG416A)
- HPE FlexNetwork MSR 0.5U HMIM Adapter Module (JG415A)
- HPE FlexNetwork MSR Open Application Platform (OAP) with VMware vSphere MIM Module (JG532A)
- HPE FlexNetwork MSR Medium Survivable Branch Communication MIM Module powered by Skype for Business (JG588A)

Power supplies

- HPE RPS 800 Redundant Power Supply (JD183A)
- HPE X351 300W 100-240VAC to 12VDC Power Supply (JG527A)
- HPE X351 300W -48/-60VDC to 12VDC Power Supply (JG528A)
- HPE FlexNetwork 5800 750W AC POE Power Supply (JC089A)

Power cord

- HPE X290 MSR30 1m RPS Cable (JD637A)

Memory

- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)
- HPE X610 2GB DDR3 SDRAM UDIMM Memory (JG529A)
- HPE X610 4GB DDR3 SDRAM UDIMM Memory (JG530A)


Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

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Routers

Routers (continued)

	Height (RU)	Module slots	Included ports	USB ports	SDRAM (Included/ Available)	Compact Flash (Internal fixed)	Compact Flash slot	Power supply slots	Routing performance (PPS)	IPsec throughput (bps)	
	HPE FlexNetwork MSR2000 Router Series										
	HPE FlexNetwork MSR2003 AC Router (JG411A)	1	3 SIC slots or 1 DSIC slot and 1 SIC slot	2 GE WAN	1	1 GB	256 MB	0	0	1 M	400 M
	HPE FlexNetwork MSR2004-24 AC Router (JG734A)	1	4 SIC slots	3 GE WAN (1 Combo) and 24 GE LAN	1	1 GB	256 MB	0	0	500 K	400 M
HPE FlexNetwork MSR2004-48 Router (JG735A)	1	4 SIC slots	3 GE WAN and 48 GE LAN	1	1 GB	256 MB	0	2	500 K	400 M	

HPE FlexNetwork MSR2000 Router Series at a glance

Features a modular design that delivers unmatched application services for small- to medium-sized branch offices while reducing complexity, and simplifying configuration, deployment, and management. The series provides a full-featured, resilient routing platform, including IPv6 and MPLS, up to one Mpps forwarding capacity, and 400 Mbps of IPsec VPN encrypted throughput. The multicore processors provide high performance and reliable routing, switching, SIP/voice, 3G/4G WAN, and security services all in one device.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork MSR2000 Router Series

Router modules

- HPE FlexNetwork MSR 4G LTE SIC Module for Verizon (JG742A)
- HPE FlexNetwork MSR 4G LTE SIC Module for ATT (JG743A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Global (JG744A)
- HPE FlexNetwork MSR HSPA+/WCDMA SIC Module (JG929A)
- HPE FlexNetwork MSR 1-port 10/100Base-T SIC Module (JD545B)
- HPE FlexNetwork MSR 1-port 100Base-X SIC Module (JF280A)
- HPE FlexNetwork MSR 1-port E1/Fractional E1 (75ohm) SIC Module (JD634B)
- HPE FlexNetwork MSR 1-port T1/Fractional T1 SIC Module (JD538A)
- HPE FlexNetwork MSR 1-port Enhanced Serial SIC Module (JD557A)
- HPE FlexNetwork MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE FlexNetwork MSR 1-port E1/CE1/PRI SIC Module (JG604A)
- HPE FlexNetwork MSR 1-port ADSL over POTS SIC Module (JD537A)
- HPE FlexNetwork MSR 1-p 8-wire G.SHDSL DSIC Module (JG191A)
- HPE FlexNetwork MSR 1-port GbE Combo SIC Module (JG738A)
- HPE FlexNetwork MSR 2-port FXO SIC Module (JD558A)

- HPE FlexNetwork MSR 2-port FXS SIC Module (JD560A)
- HPE FlexNetwork MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE FlexNetwork MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE FlexNetwork MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial SIC Module (JG736A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial SIC Module (JG737A)
- HPE FlexNetwork MSR 4-port Gig-T Switch SIC Module (JG739A)
- HPE FlexNetwork MSR 4-port 10/100Base-T Switch SIC Module (JD573B)
- HPE FlexNetwork MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE FlexNetwork MSR 8-port Async Serial SIC Module (JF281A)
- HPE FlexNetwork MSR 9-port 10/100Base-T Switch DSIC Module (JD574B)
- HPE FlexNetwork MSR 16-port Async Serial SIC Module (JG186A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Verizon (JG742A)

- HPE FlexNetwork MSR 4G LTE SIC Module for ATT (JG743A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Global (JG744A)
- HPE FlexNetwork MSR 1-port ADSL over POTS SIC Module (JD537A)
- HPE FlexNetwork MSR 1-p 8-wire G.SHDSL DSIC Module (JG191A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial SIC Module (JG736A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial SIC Module (JG737A)
- HPE FlexNetwork MSR 1-port GbE Combo SIC Module (JG738A)
- HPE FlexNetwork MSR 4-port Gig-T Switch SIC Module (JG739A)

Power supplies


- HPE X351 150W 100-240VAC to 12VDC Power Supply (JG745A)
- HPE X351 150W -48/-60VDC to 12VDC Power Supply (JG746A)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

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Routers

Routers (continued)											
		Height (RU)	Module slots	Included ports	USB ports	SDRAM (Included/ Available)	Compact Flash (Internal fixed)	Compact Flash slot	Power supply slots	Routing performance	IPsec throughput (bps)
HPE FlexNetwork MSR1000 Router Series											
	HPE FlexNetwork MSR1003-8 AC Router (JG732A)	1	3 SIC slots or 1 DSIC slot and 1 SIC slot	2 GE WAN, 8 GE LAN, 1 Serial	1	512 MB	256 MB	0	0	500 Kpps	170 M
	HPE FlexNetwork MSR1003-8S AC Router (JH060A)	1	3 SIC slots or 1 DSIC slot and 1 SIC slot	2 GE WAN, 8 GE LAN, 1 Serial	1	512 MB	256 MB	0	0	500 Kpps	170 M
	HPE FlexNetwork MSR1002-4 AC Router (JG875A)	1	2 SIC slots or 1 DSIC slot	1 GE WAN, 4 GE LAN	1	1 GB	256 MB	0	0	500 Kpps	170 M
<p>HPE FlexNetwork MSR1000 Router Series at a glance</p> <p>Next-generation modular multiservices router designed to deliver unmatched application performance for small-sized branch offices. Provides a flexible multiservice end point for small branch/office or departmental end points that quickly adapts to changing business requirements while delivering integrated, concurrent services on a single, easy-to-manage platform.</p>											

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork MSR1000 Router Series

Router modules

- HPE FlexNetwork MSR 802.11b/g/n Wireless Access Point SIC Module (JF819A)
- HPE FlexNetwork MSR 802.11b/g/n Wireless Access Point SIC Module (NA) (JG211A)
- HPE FlexNetwork MSR HSPA+/WCDMA SIC Module (JG929A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Verizon (JG742A)
- HPE FlexNetwork MSR 4G LTE SIC Module for ATT (JG743A)
- HPE FlexNetwork MSR 4G LTE SIC Module for Global (JG744A)
- HPE FlexNetwork MSR 1-port 10/100Base-T SIC Module (JD545B)
- HPE FlexNetwork MSR 1-port 100Base-X SIC Module (JF280A)
- HPE FlexNetwork MSR 1-port ADSL2+ SIC Module (JD537A)
- HPE FlexNetwork MSR 1-port ADSL over ISDN SIC Module (JG056B)
- HPE FlexNetwork MSR 1-port 8-wire G.SHDSL (RJ45) DSIC Module (JG191A)
- HPE FlexNetwork MSR 1-port E1/Fractional E1 (75ohm) SIC Module (JD634B)
- HPE FlexNetwork MSR 1-port GbE Combo SIC Module (JG738A)
- HPE FlexNetwork MSR 1-port T1/Fractional T1 SIC Module (JD538A)

- HPE FlexNetwork MSR 1-port Enhanced Serial SIC Module (JD557A)
- HPE FlexNetwork MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE FlexNetwork MSR 1-port E1/CE1/PRI SIC Module (JG604A)
- HPE FlexNetwork MSR 1-port E1/CE1/PRI SIC Module (JG604A)
- HPE FlexNetwork MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE FlexNetwork MSR 2-port FXO SIC Module (JD558A)
- HPE FlexNetwork MSR 2-port FXS SIC Module (JD560A)
- HPE FlexNetwork MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE FlexNetwork MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE FlexNetwork MSR 2-port Enhanced Sync/Async Serial SIC Module (JG736A)
- HPE FlexNetwork MSR 4-port 10/100Base-T Switch SIC Module (JD573B)
- HPE FlexNetwork MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE FlexNetwork MSR 4-port Enhanced Sync/Async Serial SIC Module (JG737A)
- HPE FlexNetwork MSR 4-port Gig-T Switch SIC Module (JG739A)

- HPE FlexNetwork MSR 8-port Async Serial SIC Module (JF281A)
- HPE FlexNetwork MSR 9-port 10/100Base-T Switch DSIC Module (JD574B)
- HPE FlexNetwork MSR 16-port Async Serial SIC Module (JG186A)

Mounting kit

- HPE FlexNetwork 3100/4210-16/-8 PoE Rack Mount Kit (JD323A)

License

- HPE IPS Activation for MSR1000 E-LTU (JH226AAE)
- HPE DV Essential IPS Filter Service for MSR1000 1yr E-LTU (JH230AAE)


Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

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Routers

Routers (continued)

	Virtual CPUs	Routing performance	IPsec performance
HPE FlexNetwork VSR1000 Virtual Services Router Series			
	HPE FlexNetwork VSR1001 Comware 7 Virtual Services Router E-LTU (JG811AAE)	183 Kpps (VMware), 133 Kpps (KVM)	1518 bytes (with VMware hypervisor) up to 268 Mbps
	HPE FlexNetwork VSR1004 Comware 7 Virtual Services Router E-LTU (JG812AAE)	227 Kpps (VMware), 172 Kpps (KVM)	1518 bytes (with VMware hypervisor) up to 580 Mbps
	HPE FlexNetwork VSR1008 Comware 7 Virtual Services Router E-LTU (JG813AAE)	200 Kpps (VMware), 95 Kpps (KVM)	1518 bytes (with VMware hypervisor) up to 926 Mbps
HPE FlexNetwork VSR1000 Virtual Services Router Series at a glance A virtualized application that provides advanced router functionality on a virtual machine on an industry-standard x86-based server. Resources can be dynamically allocated and upgraded on demand as performance requirements grow. Ideal for deployment scenarios such as enterprise branch CPE routing and cloud offloading of small- to medium-sized workloads.			


Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE VSR1000 Virtual Services Router Series
 This product has no accessories.

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Routers

Routers (continued)

	Height (RU)	Module slots	Included ports	USB ports	Enhanced service modules supported	SDRAM (Included/available)	Compact Flash slot	Embedded voice support (VPM/VCPM)	Hardware hot-swap	Throughput (pps)	
HPE MSR50 Router Series											
	HPE MSR50-60 Router Chassis (JF231A)	4	6 FIC/4 SIC 6 FIC/0 SIC*	2/3GbE*	2	2	512/1024 MB 1 GB/2 GB*	1	4/1	Yes	Up to 1.28 million*
	HPE MSR50-60 DC Router Chassis (JF640A)	4	6 FIC/4 SIC 6 FIC/0 SIC*	2/3GbE*	2	2	512/1024 MB 1 GB/2 GB*	1	4/1	Yes	Up to 1.28 million*
	HPE MSR50-40 Router Chassis (JD433A)	3	4 FIC/4 SIC 4 FIC/0 SIC*	2/3GbE*	2	2	512/1024 MB 1 GB/2 GB*	1	4/1	Yes	Up to 1.28 million*
	HPE MSR50-40 DC Router Chassis (JF285A)	3	4 FIC/4 SIC 4 FIC/0 SIC*	2/3GbE*	2	2	512/1024 MB 1 GB/2 GB*	1	4/1	Yes	Up to 1.28 million*

HPE MSR50 Series at a glance
 Designed for large branch, regional office, and enterprise deployments, the routers deliver high-performance converged routing, switching, wireless, security, and voice services with modular, high-density WAN, LAN, and voice interface options in a single platform. The HPE MSR50 Router Series provides full-featured routing, IPv6, QoS, MPLS, security, switching, wireless, and voice services with optional embedded hardware-based encryption and voice processing to deliver superior forwarding up to 1280 Kpps.

* MPU G2

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR50 Series

Processing modules

- HPE MSR50 G2 Main Processing Unit (JD429B)
- HPE MSR50 Main Processing Unit (JD653A)
- HPE MSR50 G2 Multi-Service Module (JD430A)
- HPE MSR50 Multi-Service Module (JD651A)

Flexible interface card (FIC) modules

- HPE MSR Large Survivable Branch Communication FIC Module powered by Microsoft® Lync® (JG589A)
- HPE MSR Open Application Platform (OAP) with VMware vSphere FIC Module (JG533A)
- HPE MSR 1-port Gig-T FIC Module (JD583B)
- HPE MSR 1-port E3 ATM FIC Module (JD596A)
- HPE MSR 1-port OC-3c/STM-1c ATM SFP FIC Module (JD633A)
- HPE MSR 1-port OC-3c/STM-1c POS FIC Module (JD581C)
- HPE MSR 1-port OC3(E1/T1) CPOS FIC Module (JG201A)
- HPE MSR 1-port 1000BASE-X FIC Module (JD582A)
- HPE MSR 1-port T3/CT3/FT3 FIC Module (JD629A)
- HPE MSR 1-port E3/CE3/FE3 FIC Module (JD625A)
- HPE MSR 1-port T1 Voice FIC Module (JD605A)
- HPE MSR 1-port T3 ATM FIC Module (JD595A)
- HPE MSR 1-port E1 Voice FIC Module (JD607A)
- HPE MSR 2-port E1 Voice FIC Module (JD587A)
- HPE MSR 2-port T1 Voice FIC Module (JD606A)
- HPE MSR 2-port E1/CE1/PRI FIC Module (JD578A)
- HPE MSR 2-port Gig-T FIC Module (JF269B)
- HPE MSR 2-port 1000BASE-X FIC Module (JF270B)
- HPE MSR 2-port 10/100BASE-T FIC Module (JD577A)
- HPE MSR 4-port 10/100BASE-T FIC Module (JF824A)
- HPE MSR 4-port E&M FIC Module (JD602A)
- HPE MSR 4-port FXO FIC Module (JD593A)
- HPE MSR 4-port FXS FIC Module (JD594A)
- HPE MSR 4-port Enhanced Sync/Async Serial FIC Module (JD584A)
- HPE MSR 4-port E1/CE1/PRI FIC Module (JD591A)
- HPE MSR 4-port T1/Fractional T1 FIC Module (JD592A)
- HPE MSR 4-port Enhanced ISDN-S/T FIC Module (JD589A)
- HPE MSR 4-port E1 IMA (75ohm) FIC Module (JD622A)

- HPE MSR 4-port E1/CE1/PRI FIC Module (JD588A)
- HPE MSR 8-port Enhanced Sync/Async Serial FIC Module (JD580A)
- HPE MSR 8-port E1/CE1/PRI (75ohm) FIC Module (JD585A)
- HPE MSR 8-port T1/CT1/PRI FIC Module (JD586B)
- HPE MSR 8-port T1 IMA FIC Module (JG200A)
- HPE MSR 8-port E1 IMA (75ohm) FIC Module (JF278B)
- HPE MSR 8-port Enhanced Async Serial FIC Module (JF260B)
- HPE MSR 16-port Enhanced Async Serial FIC Module (JF265B)
- HPE MSR 16-port 10/100 PoE FIC Module (JD616A)
- HPE MSR 24-port 10/100 PoE DFIC Module (JD617A)
- HPE MSR 24-port FXS FIC Module (JG197A)

Smart interface card (SIC) modules

- HPE MSR 802.11b/g/n Wireless Access Point SIC Module (JF819A)
- HPE MSR 802.11b/g/n SIC Module (NA) (JG211A)
- HPE MSR 4G LTE SIC Module for Verizon/LTE 700 MHz/CDMA Rev A (JG742A)
- HPE MSR 4G LTE SIC Module for ATT/LTE 700/1700/2100 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG743A)
- HPE MSR 4G LTE SIC Module for Global/LTE 800/900/1800/2100/2600 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG744A)
- HPE MSR 1-port 10/100BASE-T SIC Module (JD545B)
- HPE MSR 1-port 100BASE-X SIC Module (JF280A)
- HPE MSR 1-port GbE Combo SIC Module (JD572A)
- HPE MSR 1-port FXS SIC Module (JD561A)
- HPE MSR 1-port FXO SIC Module (JD559A)
- HPE MSR 1-port E1 Voice SIC Module (JD575A)
- HPE MSR 1-port T1 Voice SIC Module (JD576A)
- HPE MSR 1-port E1/Fractional E1 (75ohm) SIC Module (JD634B)
- HPE MSR 1-port T1/Fractional T1 SIC Module (JD538A)
- HPE MSR 1-port Enhanced Sync/Async Serial SIC Module (JD557A)
- HPE MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE MSR 1-port ADSL over ISDN BRI U SIC Module (JG056B)
- HPE MSR 1-port 8-wire G.SHDSL DSIC Module (JG191A)
- HPE MSR 2-port FXS SIC Module (JD560A)
- HPE MSR 2-port FXO SIC Module (JD558A)
- HPE MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE MSR 2-port ISDN-S/T Voice SIC Module (JF821A)

- HPE MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE MSR 4-port 10/100BASE-T Switch SIC Module (JD573B)
- HPE MSR 4-port 10/100BASE-T PoE Switch SIC Module (JD620A)
- HPE MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE MSR 8-port Async Serial SIC Module (JF281A)
- HPE MSR 9-port 10/100BASE-T PoE Switch DSIC Module (JD621A)
- HPE MSR 9-port 10/100BASE-T Switch DSIC Module (JD574B)
- HPE MSR 16-port Async Serial SIC Module (JG186A)

Voice processors

- HPE MSR Voice Co-processing Module (JD610A)
- HPE MSR 32-Channel Voice Processing Module (JD598A)
- HPE MSR 24-Channel Voice Processing Module (JD599A)
- HPE MSR 16-Channel Voice Processing Module (JD600A)
- HPE MSR 8-Channel Voice Processing Module (JD601A)

Encryption sub-cards

- HPE MSR Advanced Network Data Encryption ESM Module (JD608A)
- HPE MSR Standard Network Data Encryption ESM Module (JD609A)

Power supplies

- HPE MSR50 350W AC Power Supply (JD650A)
- HPE MSR50 500W PoE Power Module (JD652A)
- HPE MSR50 350W DC Power Supply (JF443A)

Memory

- HPE MSR 512MB SDRAM (JD648A)
- HPE 2GB DDR2 SDRAM Memory (JG205A)
- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)

License


- HPE MSR50 Series Standard Version Router Software License (JD434A)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)		Height (RU)	Module slots	Included ports	USB ports	Enhanced service modules supported	SDRAM (included/available)	Compact Flash slot	Embedded voice support (VPM/VCPM)	Throughput (Kpps)
HPE MSR30 Router Series										
	HPE MSR30-60 PoE Router (JF804A)	3	6 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-60 Router (JF230A)	3	6 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-60 DC Router (JF801A)	3	6 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-40 PoE Router (JF803A)	2	4 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-40 Router (JF229A)	2	4 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-40 DC Router (JF287A)	2	4 MIM/4 SIC	2 1000Base-T ports + 2 GbE SFP ports	2	2	512/1024 MB	1	3/1	360
	HPE MSR30-20 PoE Router (JF802A)	1	2 MIM/4 SIC	2 RJ-45 10/100/1000 WAN ports	2	2	512/1024 MB	1	3/1	300
	HPE MSR30-20 Router (JF284A)	1	2 MIM/4 SIC	2 RJ-45 10/100/1000 WAN ports	2	2	512/1024 MB	1	2/1	300
	HPE MSR30-20 DC Router (JF235A)	1	2 MIM/4 SIC	2 RJ-45 10/100/1000 WAN ports	2	2	512/1024 MB	1	2/1	300
	HPE MSR30-16 Router (JF233A)	1	1 MIM/4 SIC	2 RJ-45 10/100 WAN ports	1	2	256/768 MB	1	2/1	240
	HPE MSR30-16 PoE Router (JF234A)	1	1 MIM/4 SIC	2 RJ-45 10/100 WAN ports	1	2	256/768 MB	1	2/1	240
	HPE MSR30-11E Router (JG182A)	1	1 MIM/2 SIC	2 RJ-45 10/100 WAN ports + 24 RJ-45 10/100 LAN ports	1	1	256 MB	0	0/0	220
	HPE MSR30-11F Router (JG183A)	1	1 MIM/2 SIC	2 RJ-45 10/100 WAN ports + 48 RJ-45 10/100 LAN ports	1	1	256 MB	0	0/0	220
	HPE MSR30-10 DC Router (JG184A)	1	1 MIM/2 SIC	2 RJ-45 10/100 WAN ports	1	1	256 MB	0	1/0	220
HPE MSR30-10 Router (JF816A)	1	1 MIM/2 SIC	2 RJ-45 10/100 WAN ports	1	1	256 MB	0	1/0	220	

HPE MSR30 Series at a glance
 Ideal for medium to large branch and regional offices; provide unmatched performance, integrated routing, switching, security, wireless, and voice services with a rich set of modular WAN/LAN and voice interface options in a single device to reduce operating and capital costs and simplify complexity.
 Note: DP = Dual-personality port

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR30 Series

PoE modules (for MSR30 PoE routers)

- HPE MSR 24-port 10/100 PoE DMIM Module (JD619A)
- HPE MSR 16-port 10/100 PoE MIM Module (JD618A)
- HPE MSR 9-port 10/100BASE-T PoE Switch DSIC Module (JD621A)
- HPE MSR 4-port 10/100BASE-T PoE Switch SIC Module (JD620A)

Multifunction interface modules (MIM)

- HPE MSR Small Survivable Branch Communication MIM Module powered by Skype for Business (JG587A)
- HPE MSR Open Application Platform (OAP) with VMware vSphere MIM Module (JG532A)
- HPE MSR Medium Survivable Branch Communication MIM Module powered by Skype for Business (JG588A)
- HPE MSR 1-port E1 Voice MIM Module (JD565A)
- HPE MSR 1-port T1 Voice MIM Module (JD566A)
- HPE MSR 1-port T3/CT3/FT3 MIM Module (JD628A)
- HPE MSR 1-port E3/CE3/FE3 MIM Module (JD630A)
- HPE MSR 1-port OC-3c/STM-1c ATM SFP MIM Module (JD624A)
- HPE MSR 1-port OC3c POS MIM Module (JG193A)
- HPE MSR 2-port E1 Voice MIM Module (JD567A)
- HPE MSR 2-port T1 Voice MIM Module (JD568A)
- HPE MSR 2-port 10/100BASE-T MIM Module (JD613A)
- HPE MSR 2-port Gig-T MIM Module (JD548A)
- HPE MSR 2-port E1/CE1/PRI MIM Module (JD544A)
- HPE MSR 2-port T1/CT1/PRI MIM Module (JD549A)
- HPE MSR 2-port Enhanced Sync/Async Serial MIM Module (JD540A)
- HPE MSR 2-port FXO MIM Module (JD543A)
- HPE MSR 4-port Enhanced Sync/Async Serial MIM Module (JD541A)
- HPE MSR 4-port 10/100BASE-T MIM Module (JD551A)
- HPE MSR 4-port FXO MIM Module (JD542A)
- HPE MSR 4-port FXS MIM Module (JD553A)
- HPE MSR 4-port ISDN-S/T Voice MIM Module (JF837A)

- HPE MSR 4-port E&M MIM Module (JD539A)
- HPE MSR 4-port E1/CE1/PRI MIM Module (JD550A)
- HPE MSR 4-port T1/Fractional T1 MIM Module (JF254B)
- HPE MSR 4-port E1/Fractional E1 MIM Module (JF257B)
- HPE MSR 8-port E1 IMA (75ohm) MIM Module (JD555B)
- HPE MSR 8-port E1/CE1/PRI (75ohm) MIM Module (JD563A)
- HPE MSR 8-port E1/Fractional E1 (75ohm) MIM Module (JF255A)
- HPE MSR 8-port T1/Fractional T1 MIM Module (JC159A)
- HPE MSR 8-port T1/CT1/PRI MIM Module (JC160A)
- HPE MSR 8-port Enhanced Sync/Async Serial MIM Module (JD552A)
- HPE MSR 8-port Enhanced Async Serial MIM Module (JF840A)
- HPE MSR 16-port 10/100BASE-T Switch XMIM Module (JF279A)
- HPE MSR 16-port FXS MIM Module (JF822A)
- HPE MSR 24-port 10/100 DMIM Module (JD564A)
- HPE MSR 24-port 10/100BASE-T Switch XMIM Module (JF276A)

Smart interface card (SIC) modules

- HPE MSR 802.11b/g/n Wireless Access Point SIC Module (JF819A)
- HPE MSR 802.11b/g/n SIC Module (NA) (JG211A)
- HPE MSR 4G LTE SIC Module for Verizon/LTE 700 MHz/CDMA Rev A (JG742A)
- HPE MSR 4G LTE SIC Module for ATT/LTE 700/1700/2100 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG743A)
- HPE MSR 4G LTE SIC Module for Global/LTE 800/900/1800/2100/2600 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG744A)
- HPE MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE MSR 1-port 10/100BASE-T SIC Module (JD545B)
- HPE MSR 1-port 100BASE-X SIC Module (JF280A)
- HPE MSR 1-port GbE Combo SIC Module (JD572A)
- HPE MSR 1-port FXO SIC Module (JD559A)
- HPE MSR 1-port FXS SIC Module (JD561A)
- HPE MSR 1-port ADSL over ISDN BRI U SIC Module (JG056B)
- HPE MSR 1-port 8-wire G.SHDSL DSIC Module (JG191A)
- HPE MSR 1-port E1 Voice SIC Module (JD575A)

- HPE MSR 1-port T1 Voice SIC Module (JD576A)
- HPE MSR 1-port Enhanced Sync/Async Serial SIC Module (JD557A)
- HPE MSR 2-port FXO SIC Module (JF258A)
- HPE MSR 2-port FXS SIC Module (JD560A)
- HPE MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE MSR 4-port 10/100BASE-T Switch SIC Module (JD573B)
- HPE MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE MSR 8-port Async Serial SIC Module (JF281A)
- HPE MSR 9-port 10/100BASE-T Switch DSIC Module (JD574B)
- HPE MSR 16-port Async Serial SIC Module (JG186A)

Voice processors

- HPE MSR 32-Channel Voice Processing Module (JD598A)
- HPE MSR 24-Channel Voice Processing Module (JD599A)
- HPE MSR 16-Channel Voice Processing Module (JD600A)
- HPE MSR 8-Channel Voice Processing Module (JD601A)
- HPE MSR Voice Co-processing Module (JD610A)

Encryption sub-cards

- HPE MSR Advanced Network Data Encryption ESM Module (JD608A)
- HPE MSR Standard Network Data Encryption ESM Module (JD609A)

Power supplies

- HPE RPS800 Redundant Power System (JD183A)
- HPE X290 MSR30 1m RPS Cable (JD637A)

Memory

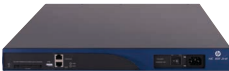
- HPE 256MB DDR2 Register SDRAM (JD647A)
- HPE 512MB DDR2 Register SDRAM (JD648A)

Transceivers and cables

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)		Height (RU)	Module slots	Included ports	USB ports	Enhanced service modules supported	SDRAM (included/available)	Compact Flash slot	Embedded voice support (VPM/VCPM)	Throughput (Kpps)
HPE MSR20 Router Series										
	HPE MSR20-40 Router (JF228A)	1	4 SIC	2 RJ-45 10/100 WAN ports	1	2	256/384 MB	1	2/1	180
	HPE MSR20-21 Router (JD663B)	1	2 SIC	2 RJ-45 10/100 WAN ports + 8 RJ-45 10/100 LAN ports	1	1	256/384 MB	1	0	180
	HPE MSR20-20 Router (JF283A)	1	2 SIC	2 RJ-45 10/100 WAN ports	1	1	256/384 MB	1	0	180
<p>HPE MSR20 Series at a glance Flexible, economical, full-featured routing, switching, security, and voice with flexible modular WAN and LAN connectivity options in a high-performance converged routing platform that is ideal for small to medium branch offices and enterprise deployments.</p>										

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR20 Series

Smart interface card (SIC) modules

- HPE MSR 802.11b/g/n Wireless Access Point SIC Module (JF819A)
- HPE MSR 802.11b/g/n SIC Module (NA) (JG211A)
- HPE MSR 4G LTE SIC Module for Verizon/LTE 700 MHz/CDMA Rev A (JG742A)
- HPE MSR 4G LTE SIC Module for ATT/LTE 700/1700/2100 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG743A)
- HPE MSR 4G LTE SIC Module for Global/LTE 800/900/1800/2100/2600 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG744A)
- HPE MSR 1-port 10/100BASE-T SIC Module (JD545B)
- HPE MSR 1-port 100BASE-X SIC Module (JF280A)
- HPE MSR 1-port GbE Combo SIC Module (JD572A)
- HPE MSR 1-port ADSL over ISDN BRI U SIC Module (JG056B)
- HPE MSR 1-port 8-wire G.SHDSL DSIC Module (JG191A)
- HPE MSR 1-port FXO SIC Module (JD559A)
- HPE MSR 1-port FXS SIC Module (JD561A)
- HPE MSR 1-port E1 Voice SIC Module (JD575A)
- HPE MSR 1-port T1 Voice SIC Module (JD576A)
- HPE MSR 1-port E1/Fractional E1 (75ohm) SIC Module (JD634B)
- HPE MSR 1-port T1/Fractional T1 SIC Module (JD538A)
- HPE MSR 1-port Enhanced Sync/Async Serial SIC Module (JD557A)

- HPE MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE MSR 2-port FXS SIC Module (JD560A)
- HPE MSR 2-port FXO SIC Module (JD558A)
- HPE MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE MSR 4-port 10/100BASE-T Switch SIC Module (JD573B)
- HPE MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE MSR 8-port Async Serial SIC Module (JF281A)
- HPE MSR 9-port 10/100BASE-T Switch DSIC Module (JD574B)
- HPE MSR 16-port Async Serial SIC Module (JG186A)

Voice processors (for use in HPE MSR20-40 routers)

- HPE MSR 32-channel Voice Processing Module (JD598A)
- HPE MSR 24-channel Voice Processing Module (JD599A)
- HPE MSR 16-channel Voice Processing Module (JD600A)
- HPE MSR 8-channel Voice Processing Module (JD601A)
- HPE MSR Voice Co-processing Module (JD610A)

Encryption sub-cards

- HPE MSR Advanced Network Data Encryption ESM Module (JD608A)
- HPE MSR Standard Network Data Encryption ESM Module (JD609A)

Memory


- HPE X600 1G Compact Flash Card (JC684A)
- HPE X600 512M Compact Flash Card (JC685A)
- HPE X600 256M Compact Flash Card (JC686A)

Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)		Height (RU)	Module slots	Included ports	USB ports	SDRAM (included/available)	Throughput (Kpps)
HPE MSR20-1x Router Series							
	HPE MSR20-15 IW Multi-Service Router (JF238A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 ADSL2+ port + 1 ISDN port + 802.11b/g	1	256/256 MB	160
	HPE MSR20-15 A Multi-Service Router (JF237A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 ADSL2+ port + 1 analog modem port	1	256/256 MB	160
	HPE MSR20-15 AW Multi-Service Router (JF809A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 ADSL2+ port + 1 analog modem port	1	256/256 MB	160
	HPE MSR20-15 I Multi-Service Router (JF236A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 ADSL2+ port + 1 ISDN port	1	256/256 MB	160
	HPE MSR20-15 Router (JF817A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 ADSL2+ port	1	256/256 MB	160
	HPE MSR20-13 Router (JF240A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 G.SHDSL port	1	256/256 MB	160
	HPE MSR20-13-W Router (JF808A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 G.SHDSL port + 802.11b/g	1	256/256 MB	160
	HPE MSR20-13-W Router (NA) (JG210A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 G.SHDSL port + 802.11b/g	1	256/256 MB	160
	HPE MSR20-12 Router (JF241A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 E1 port	1	256/256 MB	160
	HPE MSR20-12-T Router (JF806A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 T1 port	1	256/256 MB	160
	HPE MSR20-12-T-W Router (NA) (JG209A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 T1 port + 802.11b/g	1	256/256 MB	160
	HPE MSR20-12-W Router (JF807A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 E1 port + 802.11b/g	1	256/256 MB	160
	HPE MSR20-11 Router (JF239A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports + 1 serial port	1	256/256 MB	160
	HPE MSR20-10 Router (JD431A)	1	1 SIC	1 RJ-45 10/100 WAN ports + 4 RJ-45 10/100 LAN ports	1	256/256 MB	160
<p>HPE MSR20-1x Series at a glance Full-featured, economical routers designed for converged wired and wireless WAN and LAN environments at small remote branch offices and small to medium-sized businesses. The HPE MSR20-1x Series routers deliver high-performance integrated routing, switching, security, wireless, and voice services with modular interface options in a single device.</p>							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR20-1x Series

Smart interface Card (SIC) modules

- HPE MSR 9-port 10/100Base-T Switch DSIC Module (JD574B)
- HPE MSR 4-port 10/100Base-T Switch SIC Module (JD573B)
- HPE MSR 1-port 10/100Base-T SIC Module (JD545B)
- HPE MSR 1-port E1/CE1/PRI SIC Module (JF253B)
- HPE MSR 4-port FXS/1-port FXO DSIC Module (JG189A)
- HPE MSR HSPA/WCDMA SIC Module (JG187A)
- HPE MSR 4G LTE SIC Module for Verizon/LTE 700 MHz/CDMA Rev A (JG742A)
- HPE MSR 4G LTE SIC Module for ATT/LTE 700/1700/2100 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG743A)
- HPE MSR 4G LTE SIC Module for Global/LTE 800/900/1800/2100/2600 MHz and UMTS/HSPA+/HSPA/EDGE/GRPS/GSM (JG744A)
- HPE MSR 1-port GbE Combo SIC Module (JD558A)
- HPE MSR 2-port FXO SIC Module (JD558A)
- HPE MSR 1-port FXO SIC Module (JD559A)
- HPE MSR 2-port FXS SIC Module (JD560A)

- HPE MSR 1-port FXS SIC Module (JD561A)
- HPE MSR 2-port FXS/1-port FXO SIC Module (JD632A)
- HPE MSR 1-port ISDN-U SIC Module (JD570A)
- HPE MSR 1-port ISDN-S/T SIC Module (JD571A)
- HPE MSR 1-port T1/Fractional T1 SIC Module (JD538A)
- HPE MSR 1-port ADSL over POTS SIC Module (JD537A)
- HPE MSR 1-port Enhanced Sync/Async Serial SIC Module (JD557A)
- HPE MSR 1-port E1/Fractional E1 SIC Module (JD634B)
- HPE MSR 2-port E1/Fractional E1 (75ohm) SIC Module (JF842A)
- HPE MSR 2-port ISDN-S/T Voice SIC Module (JF821A)
- HPE MSR 1-port 100BASE-X SIC Module (JF280A)
- HPE MSR 8-port Async Serial SIC Module (JF281A)
- HPE MSR 802.11b/g/n Wireless Access Point SIC Module (JF819A)
- HPE 3G Wireless GSM/WCDMA WAN SIC Module (JF820A)
- HPE MSR 802.11b/g/n Wireless Access Point SIC Module (NA) (JG211A)
- HPE MSR 1-port ADSL over ISDN SIC Module (JG056B)
- HPE MSR 1-port 8-wire G.SHDSL (RJ45) DSIC Module (JG191A)
- HPE MSR 16-port Async Serial SIC Module (JG186A)

Voice processors (for use in HPE MSR20-15/20-12 routers)

- HPE MSR 32-Channel Voice Processing Module (JD598A)
- HPE MSR 24-Channel Voice Processing Module (JD599A)
- HPE MSR 16-Channel Voice Processing Module (JD600A)
- HPE MSR 8-Channel Voice Processing Module (JD601A)
- HPE MSR Voice Co-processing Module (JD610A)


Transceivers

- See pages 83–89 for the Networking Transceiver Matrix.

WAN

Routers

Routers (continued)

	Height (RU)	Module slots	Included ports	USB ports	SDRAM (included/available)	Throughput	Flash
HPE FlexNetwork MSR95x Router Series							
							
HPE FlexNetwork MSR954 1GbE SFP 2GbE-WAN 4GbE-LAN CWv7 Router (JH296A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports	2	1 GB DDR3	Up to 300 Kpps	256 MB NAND
HPE FlexNetwork MSR954-W 1GbE SFP (WW) 2GbE-WAN 4GbE-LAN Wireless 802.11n CWv7 Router (JH297A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 3G wireless + antenna	2	1 GB DDR3	Up to 300 Kpps	256 MB NAND
HPE FlexNetwork MSR954-W 1GbE SFP LTE (AM) 2GbE-WAN 4GbE-LAN Wireless 802.11n CWv7 Router (JH298A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 serial port	2	1 GB DDR3	Up to 300 Kpps	256 MB NAND
HPE FlexNetwork MSR954-W 1GbE SFP LTE (WW) 2GbE-WAN 4GbE-LAN Wireless 802.11n CWv7 Router (JH299A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 3G wireless + antenna + 1 serial port	2	1 GB DDR3	Up to 300 Kpps	256 MB NAND

HPE FlexNetwork MSR95x Router Series
 High-performance Comware v7 based small-branch router that delivers integrated routing, switching, security, SIP, embedded 802.11b/g/n WLAN connectivity, integrated 4GLTE/3G, and fiber(SFP) in a single box. Delivers up to 300 Kpps forwarding with comprehensive IPv4 and IPv6 routing, MPLS, QoS, stateful firewall, network address translation (NAT), VPN, switching, voice, and wireless capabilities in a compact, fixed form factor. This router series is based on open standards for seamless integration within small-branch deployments.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)


HPE FlexNetwork MSR95x Series

Antenna cables

- HPE MSR 3G RF 6m Antenna Cable (JG666A)
- HPE MSR 3G RF 15m Antenna Cable (JG667A)
- HPE MSR 4G 5W TNC Antenna (JG669A)

WAN

Routers

Routers (continued)		Height (RU)	Module slots	Included ports	USB ports	SDRAM (Included/available)	Throughput (pps)	Flash
HPE FlexNetwork MSR93x Router Series								
	HPE FlexNetwork MSR930 Router (JG511B)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR930 3G Router (JG513B)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 3G wireless + antenna	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR931 Router (JG514A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 serial port	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR931 3G Router (JG515A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 3G wireless + antenna + 1 serial port	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR931 Dual 3G Router (JG531B)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 serial port + dual 3G wireless + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR930 Wireless Router (JG512A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 802.11b/g/n + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR930 4G LTE/3G CDMA Router (JG596A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 4G LTE and 3G wireless + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR933 Router (JG516A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 G.SHDSL (8-wire) port	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR933 3G Router (JG517A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 G.SHDSL (8-wire) port + 3G wireless + antenna	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR935 Router (JG518B)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 ADSL 2+ ANNEX A/M port	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR930 Wireless 11n (NA) Router (JH012B)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 802.11b/g/n + 2 antennas (North American version of JG512A)	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR935 Wireless Router (JG519A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 ADSL 2+ ANNEX A/M port + 802.11b/g/n + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR935 3G Router (JG520A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 ADSL 2+ ANNEX A/M port + 3G wireless + antenna	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR936 Wireless Router (JG597A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 1 ADSL 2+ ANNEX B/J ISDN backup port + 802.11b/g/n + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
	HPE FlexNetwork MSR930 4G LTE/3G WCDMA Global Router (JG665A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 4G LTE and 3G wireless + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB
HPE FlexNetwork MSR930 4G LTE/3G WCDMA ATT Router (JG704A)	1	Fixed	1 RJ-45 autosensing 10/100/1000 WAN port + 4 RJ-45 autosensing 10/100/1000 LAN ports + 4G LTE and 3G wireless + 2 antennas	1	256 MB DDR	up to 300 Kpps	128 MB	

HPE FlexNetwork MSR93x Router Series
 High-performance small branch router that delivers integrated routing, switching, security, SIP, IEEE 802.11n WLAN connectivity, and 4G LTE/3G in a single box. With its converged infrastructure, the series enables faster time to service and enhanced performance while simplifying your network through single-pane-of-glass management and zero-touch deployment. Also increases flexibility and agility by delivering extensive connectivity capabilities in a compact fixed form factor. Based on open standards for seamless integration within small branch deployments.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR93x Series

Antenna cables

- HPE MSR 3G Antenna (JG521A)
- HPE MSR 3G RF 2.8m Antenna Cable (JG522A)
- HPE MSR 3G RF 6m Antenna Cable (JG666A)
- HPE MSR 3G RF 15m Antenna Cable (JG667A)
- HPE MSR 4G 5W TNC Antenna (JG669A)

Network Management

Aruba AirWave

Aruba's AirWave software is a powerful tool for not only monitoring your entire access network but also improving user experience with rich analytics. As the number and adoption of mobile devices and IoT increase in the digital workplace, the first thing that stands in the way of scalable growth is the lack of tools and resources for network operations teams to maintain visibility to all things connected and the network infrastructure. Aruba AirWave 8.2 meets this challenge by offering better network analytics and predictive visualization.

Aruba AirWave									
	Maximum network size	Platform	Real-time monitoring and visibility	Troubleshooting and diagnostics	Root cause analysis and event correlation	Configuration management	RF Planning tool	Support for 3rd party equipment	
Aruba AirWave*									
AW-HW-PRO	1500	Any hardware that is Red Hat Enterprise Linux 6.2 certified	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AW-HW-ENT	4000	Any hardware that is Red Hat Enterprise Linux 6.2 certified	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Aruba AirWave at a glance

AirWave is a powerful and easy-to-use network operations system that not only manages wired and wireless infrastructures from Aruba and a wide range of third-party manufacturers, but also provides granular visibility into devices, users and applications running on the network.

* Specifications listed are for Aruba 8.0.x. Consult documentation for alternate software versions.

Aruba Central

Aruba Central is your best choice for managing Aruba wired and wireless in the cloud. Monitoring, troubleshooting, firmware upgrades, provisioning and configuration—it's all in the cloud.

Aruba Central										
	Subscription length (yrs)	Product support	Network health monitoring and visibility	Web Policy enforcement	Application visibility and control	Guest Wi-Fi management	Zero touch provisioning	Maintenance and firmware management	Reporting	Included technical support
Aruba Central*										
SUB1-CNP-IAP-1	1	Instant AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB3-CNP-IAP-1	3	Instant AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB5-CNP-IAP-1	5	Instant AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB7-CNP-IAP-1	7	Instant AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB10-CNP-IAP-1	10	Instant AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB1-CNP-MAS-1	1	Mobility Access Switch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB3-CNP-MAS-1	3	Mobility Access Switch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUB5-CNP-MAS-1	5	Mobility Access Switch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Aruba Central at a glance

Aruba Central is a cloud platform that offers IT organizations a simple, secure and cost-effective way to manage and monitor their controllerless Aruba Instant wireless LANs and Mobility Access Switches, as well as integrated capabilities such as customizable guest Wi-Fi and application analytics.

* Licenses listed are for support for 1 Instant AP or Mobility Access Switch.

Network Management

HPE Intelligent Management Center

HPE Intelligent Management Center (IMC) delivers comprehensive management across campus core and data center networks. IMC converts meaningless network data to actionable information to keep your network, and your business, moving.

Intelligent Management Center—platforms									
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration
HPE Intelligent Management Center Basic Software Platform									
HPE IMC Basic Edition Software Platform with 50-node E-LTU (JG546AAE)	50 nodes	Windows®	No	Yes	Yes	Centralized	No	Yes	Enhanced
HPE IMC Basic WLAN Manager Software Platform with 50 Access Points E-LTU (JG590AAE)	50 nodes + 50 APs	Windows	No	Yes	Yes	Centralized	Yes, WSM APs only	Yes	Enhanced
HPE IMC Basic Software Platform at a glance HPE IMC Basic Software is an entry-level platform providing fault, configuration, and performance management for smaller networks.									
HPE Intelligent Management Center Standard Software Platform									
HPE IMC Standard Software Platform with 50-node E-LTU (JG747AAE)	Unlimited	Windows, Red Hat® Linux®	Yes*	Yes	Yes	Centralized, distributed, hierarchical (child)	Yes	Yes	Enhanced
HPE IMC Standard Software Platform at a glance HPE IMC Standard Software Platform is next-generation management software that provides a self-contained, comprehensive management platform with the flexibility and scalability to meet the needs of advanced enterprise networks.									
HPE Intelligent Management Center Enterprise Software Platform									
HPE IMC Enterprise Software Platform with 50-node and 2-NTA-IMC node E-LTU (JG748AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes		Centralized, distributed, hierarchical (parent)	Yes	Yes	Enhanced
HPE IMC Enterprise Software Platform at a glance HPE IMC Enterprise Software Platform allows additional scaling to tens of thousands of nodes by offering a hierarchical mode of deployment.									
*IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.									
Intelligent Management Center—modules									
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration
HPE IMC Application Performance Manager Software									
HPE IMC Application Performance Manager Software Module with 25-monitor E-LTU (JG489AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC Application Performance Manager Software at a glance HPE IMC Application Performance Manager Software Module monitors network impact to application performance.									
*IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.									

Network Management

Management software

Intelligent Management Center—modules (continued)										
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration	
HPE IMC Branch Intelligent Management System Software										
HPE IMC Branch Intelligent Management System Software Module with 50-node E-LTU (JG265AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes	Yes	Yes	
HPE IMC Branch Intelligent Management System Software at a glance HPE IMC Branch Intelligent Management System Software is based on TR-069 protocol, which allows the remote management of customer premise equipment (CPE) in WANs.										
HPE IMC Business Service Performance Software										
HPE IMC Business Service Performance Software Module with E-LTU (JH320AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No			
HPE IMC Business Service Performance Software at a glance HPE IMC Business Service Performance Software delivers a holistic health score and dashboard for end-to-end services.										
HPE IMC Endpoint Admission Defense (EAD) Software										
HPE IMC Endpoint Admission Defense Software Module with 50-user E-LTU (JG754AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes			
HPE IMC Endpoint Admission Defense Software at a glance HPE IMC Endpoint Admission Defense Software helps companies use HPE IMC to control and secure their mission-critical data by providing robust Network Access Control (NAC).										
HPE IMC Extended API Software										
HPE IMC Extended API E-LTU (JG399AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No			
HPE IMC Extended API Software at a glance HPE IMC Extended API Software offers a library of APIs, allowing external applications to interface with and leverage IMC configuration functions.										
HPE IMC Intelligent Analysis Reporter Software										
HPE IMC Intelligent Analysis Reporter Software E-LTU (JG138AAE)	Unlimited	Windows	Yes*	Yes	Yes	Centralized, distributed	No			
HPE IMC Intelligent Analysis Reporter Software at a glance HPE IMC Intelligent Analysis Reporter Software extends reporting capabilities to include customized reporting.										
HPE IMC IPsec/VPN Manager Software										
HPE IMC IPsec/VPN Manager Software Module with 25-node E-LTU (JG144AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes	Yes	Yes	
HPE IMC IPsec/VPN Manager Software at a glance HPE IMC IPsec VPN manages IPsec devices and provides detailed information regarding the private network and visibility in the topology.										
HPE IMC MPLS VPN Software										
HPE IMC MPLS VPN Software Module with 50-node E-LTU (JF410AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes	Yes	Yes	
HPE IMC MPLS VPN Software at a glance HPE IMC MPLS VPN Software provides MPLS VPN discovery, topology, monitoring, auditing, performance, and VPN deployment for HPE IMC.										
*IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.										

Network Management

Management software

Intelligent Management Center—modules (continued)									
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration
HPE IMC Network Traffic Analyzer Software									
HPE IMC Network Traffic Analyzer Software Module with 5-node E-LTU (JG750AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC Network Traffic Analyzer Software at a glance HPE IMC Network Traffic Analyzer Software provides traffic analysis and visibility services for HPE IMC.									
HPE IMC QoS Manager Software									
HPE IMC QoS Manager Software Module E-LTU (JF408AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No		Yes
HPE IMC QoS Manager Software at a glance HPE IMC QoS Manager Software enables traffic classification and control, and service-level reporting for HPE IMC.									
HPE IMC Remote Site Manager Software									
HPE IMC Remote Site Manager Software Module License with E-LTU (JG495AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes	Yes	Yes
HPE IMC Remote Site Manager Software at a glance HPE IMC Remote Site Manager Software provides secure remote management through the use of remote agents.									
HPE IMC Service Health Manager Software									
HPE IMC Service Health Manager Software Module E-LTU (JG398AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No		
HPE IMC Service Health Manager Software at a glance HPE IMC Service Health Manager Software offers end-to-end service monitoring and assurance.									
HPE IMC Service Operation Management Software									
HPE IMC Service Operation Management Software Module E-LTU (JG139AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No		
HPE IMC Service Operation Management Software at a glance HPE IMC Service Operation Management Software provides full workflow management to ticket creation, resolution, and knowledge-based creation, and integrates with IMC's configuration center and fault management.									
*IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.									

Network Management

Management software

Intelligent Management Center—modules (continued)									
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration
HPE IMC TACACS+ Authentication Manager Software									
HPE IMC TACACS+ Authentication Manager Software Module with 50-node E-LTU (JG764AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC TACACS+ Authentication Manager Software at a glance HPE IMC TACACS+ Authentication Manager Software delivers authentication, authorization, and accounting based on TACACS protocol.									
HPE IMC Unified Communications Health Manager Software									
HPE IMC Unified Communications Health Manager SW Module w/2-monitor E-LTU (JG930AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Skype for Business	Yes	Centralized, distributed	Yes		
HPE IMC Unified Communications Health Manager Software at a glance HPE IMC UC Health Manager provides API-level monitoring capabilities for Skype for Business environments.									
HPE IMC User Authentication Management Software									
HPE IMC User Authentication Management Software Module with 50-user E-LTU (JG752AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC User Authentication Management Software at a glance HPE IMC User Authentication Management Software enhances networking security and network management with HPE IMC by providing access control for users and device management, extending management to network users.									
HPE IMC User Behavior Auditor Software Module									
HPE IMC User Behavior Auditor Software Module with 50-user E-LTU (JG760AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC User Behavior Auditor Software Module at a glance HPE IMC User Behavior Auditor Software delivers intelligent logging and network analysis of internal users, providing a behavioral audit service for HPE IMC.									
HPE IMC VAN Fabric Manager Software									
HPE IMC VAN Fabric Manager Software E-LTU (JG770AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC VAN Fabric Manager Software at a glance HPE IMC VAN Fabric Manager Software simplifies the management of data center and Fibre Channel (FC) storage area network (SAN) fabrics, as well as supports SPB and TRILL.									
HPE IMC Virtual Application Networking Software-defined Network Manager Software									
HPE IMC Virtual Application Networking Software Defined Network Manager E-LTU (JG827AAE)	Unlimited	Windows, Red Hat Linux	Yes*	No	Yes	Centralized, distributed	No		
HPE IMC Virtual Application Networking Software-defined Network Manager Software at a glance HPE IMC VAN SDN Manager Software provides visibility into a software-defined network at all layers, including infrastructure, controller, and application.									
HPE IMC Virtual Application Network Connection Manager Software									
HPE IMC VAN Connection Manager Software Module with E-LTU (JG494AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		
HPE IMC Virtual Application Network Connection Manager Software at a glance HPE IMC Virtual Application Network Connection Manager Software accelerates application deployment through automation of server edge provisioning.									

*IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.

Network Management

Management software

Intelligent Management Center—modules (continued)									
	Maximum network size	Platform	External database support	Extensible for 3rd-party device support	Downloadable trial version	Deployment options	Additional node, user, or application licenses supported	Bulk agent updates	Bulk configuration
HPE IMC Virtual Application Networking Resource Automation Manager Software									
HPE IMC Virtual Application Networking Resource Automation Manager Software E-LTU (JG826AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	No		
HPE IMC Virtual Application Networking Resource Automation Manager Software at a glance									
HPE IMC VAN Resource Automation Manager Software accelerates the deployment of services and applications.									
HPE IMC Virtualization Monitor Software									
HPE IMC Virtualization Monitor Software with E-LTU (JG547AAE)	Unlimited	Linux OS included	Database included		Yes	Installs on virtual server			
HPE IMC Virtualization Monitor Software at a glance									
HPE IMC Virtualization Monitor Software is a virtual machine that monitors a virtual server and provides Layer 4 through 7 traffic visibility.									
HPE IMC Wireless Services Manager Software									
HPE IMC Wireless Services Manager Software Module with 50-Access Point E-LTU (JF414AAE)	Unlimited	Windows, Red Hat Linux	Yes*	Yes	Yes	Centralized, distributed	Yes		Yes
HPE IMC Wireless Services Manager Software at a glance									
HPE IMC Wireless Service Manager Software delivers wired and wireless enterprise network management solutions for HPE IMC.									

Software-defined Networking solutions

Software-defined Networking and Network Virtualization for Cloud

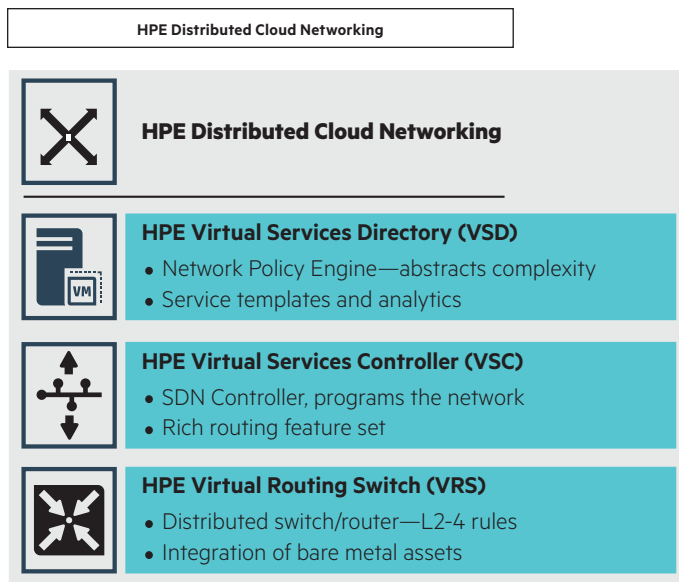


Figure 1: HPE Distributed Cloud Networking [DCN]

HPE Distributed Cloud Networking enables service providers and large organizations to build and manage a distributed, multi data center environment in a simple, open and agile way using Software-defined Networking and Network Virtualization. With underlay and overlay network fully integrated, you can lower TCO by combining intelligent workload management with policy automation.

DCN is also accelerating communication service providers' journey to Network Function Virtualization (NFV) by optimizing network resources, increasing agility, and speeding time-to-market through dynamic, service-driven configuration.

Licenses

- HPE DCN Virtual Services Directory Software and E-LTU (JL025AAE)
- HPE DCN Virtual Services Directory High Availability Cluster Add-on Redundancy Software and E-LTU (JL174AAE)
- HPE DCN Virtual Services Controller Software and E-LTU (JL026AAE)
- HPE DCN VMware Plug-in for vCenter and E-LTU (JL027AAE)
- HPE DCN Virtual Services Gateway/Federated/Policy and Analytics 10GbE Software and E-LTU (JL175AAE)
- HPE DCN Virtual Routing Switch/Federated/Policy and Analytics 10GbE ESXi Software and E-LTU (JL176AAE)
- HPE DCN Virtual Routing Switch/Federated/Policy and Analytics 10GbE KVM Software and E-LTU (JL177AAE)
- HPE DCN Virtual Services Gateway/Federated/Policy and Analytics 40GbE Software and E-LTU (JL179AAE)
- HPE DCN Virtual Routing Switch/Federated/Policy and Analytics 40GbE ESXi Software and E-LTU (JL180AAE)
- HPE DCN Virtual Routing Switch/Federated/Policy and Analytics 40GbE KVM Software and E-LTU (JL181AAE)

Notes:

Supports integration with multiple CMS solutions including OpenStack®, CloudStack and HPE Helion/HPE Carrier Grade Helion OpenStack

Multiple DCN controllers allow federation within and across data centers

Seamless integration within ESXi environment via vCenter plug-in

Support of over 1000 compute nodes per single pair of DCN controllers

Support for hardware based gateway for bare metal integration for HPE FlexFabric FF12900E, FF7900, FF5930 switches

Software-defined Networking solutions

Software-defined Networking and Network Virtualization for Cloud

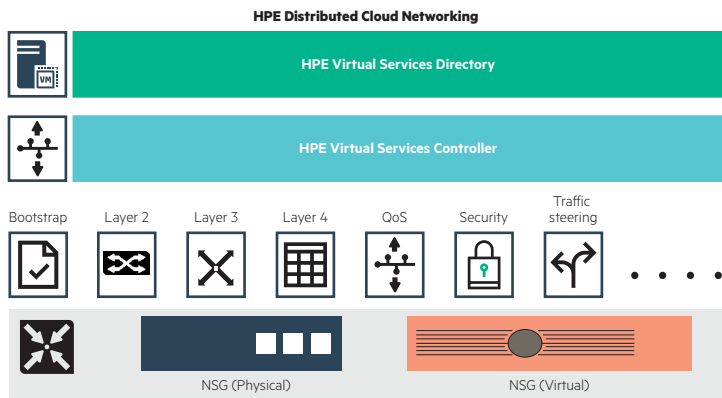


Figure 2: HPE Virtual Network Services (VNS) for Branch Automation

HPE delivers abstraction and automation within data center and cloud environments with HPE DCN solution. VNS is the extension of such building blocks and brings the same benefits previously applied to cloud-networking to Enterprise Branch via SD-WAN architecture to automate connectivity and service provisioning.

Licenses

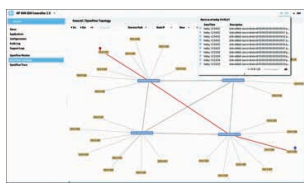
- HPE Virtual Network Services for 100Mbps Network Services Gateway Software and E-LTU (JL266AAE)
- HPE Virtual Network Services for 500Mbps Network Services Gateway Software and E-LTU (JL267AAE)
- HPE Virtual Network Services for 1Gbps Network Services Gateway Software and E-LTU (JL268AAE)
- HPE DCN Virtual Services Controller Software and E-LTU (JL026AAE)
- HPE DCN Virtual Services Directory Software and E-LTU (JL025AAE)
- HPE DCN Virtual Routing Switch/
- Federated/Policy and Analytics 10GbE
- ESXi Software and E-LTU (JL176AAE)
- HPE DCN Virtual Routing Switch/
- Federated/Policy and Analytics 10GbE
- KVM Software and E-LTU (JL177AAE)
- HPE DCN Virtual Routing Switch/Federated/
- Policy and Analytics 40GbE ESXi Software and E-LTU (JL180AAE)
- HPE DCN Virtual Routing Switch/
- Federated/Policy and Analytics 40GbE
- KVM Software and E-LTU (JL181AAE)
- HPE DCN Virtual Services Gateway/Federated/Policy and Analytics 10GbE Software and E-LTU (JL175AAE)
- HPE DCN Virtual Services Gateway/Federated/Policy and Analytics 40GbE Software and E-LTU (JL179AAE)
- HPE DCN Virtual Services Directory High Availability Cluster Add-on Redundancy Software and E-LTU (JL174AAE)
- HPE DCN plug-in for VMware vCenter and E-LTU (JL027AAE)
- HPE DCN Accelerated Virtual Routing Switch 10GbE KVM Software and E-LTU (JL269AAE)
- HPE DCN Accelerated Virtual Routing Switch 40GbE KVM Software and E-LTU (JL270AAE)

Software-defined Networking solutions

Software-defined Networking and Network Virtualization for Cloud

Software-defined Networking (SDN) Applications	Platform required server	Minimum system requirements server	Recommended software server
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HPE Virtual Application Networks (VAN) SDN Controller



HPE VAN SDN Controller Base Software with 50-node License E-LTU (J9863AAE)

PostgreSQL 9.1
OpenJDK 7 JVM
Keystone Identity

2.2 GHz Intel Xeon or Intel Core 2 Quad processor or equivalent 8 GB RAM, 40G disk

Ubuntu 14.04 LTS 64-bit

HPE Virtual Application Networks (VAN) SDN Controller at a glance

HPE Virtual Application Networks (VAN) SDN Controller provides a unified control point in an OpenFlow-enabled network, simplifying management, provisioning, and orchestration. It enables SDN application support on existing campus and data center networks.

Notes: Performance (single controller)

- Maximum OpenFlow devices: 4,000
- Maximum OpenFlow ports: 50,000
- Maximum new flows per second (cbench): 2.3 million (single controller)
- Maximum new flows per second (cbench): 6.5 million (3 controller team)

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Virtual Application Networks (VAN) SDN Controller

Licenses

- HPE VAN SDN Controller Additional 50-node License E-LTU (J9864AAE)
- HPE VAN SDN Controller High Availability License E-LTU (J9865AAE)

	Platform required server	Minimum system requirements server	Recommended software server
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HPE Network Optimizer SDN Application for Skype for Business



HPE Network Optimizer SDN Application 100 Concurrent Clients E-LTU (J9985AAE)

HPE VAN SDN Controller Software

2.2 GHz Intel® Xeon® or Intel® Core™2 Quad processor or equivalent

Ubuntu 14.04 LTS 64-bit

HPE Network Optimizer SDN Application for Skype for Business at a glance

HPE Network Optimizer SDN Application for Skype for Business enables automated provisioning of network policy and quality of service to provide an enhanced user experience.



Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE Network Optimizer SDN Application for Skype for Business

This product has no modules or accessories.

Software-defined Networking solutions

Software-defined Networking and Network Virtualization for Cloud

Software-defined Networking (SDN) Applications (continued)						
		Platform required server	Minimum system requirements server	Recommended software server		
HPE Network Protector SDN Application Series						
	HPE Network Protector SDN Application 250 Concurrent Clients E-LTU (JL004AAE)	HPE VAN SDN Controller Software	2.2 GHz Intel Xeon or Intel Core 2 Quad processor or equivalent	Ubuntu 14.04 LTS 64-bit		
	HPE Network Protector SDN Application at a glance The Network Protector SDN Application running on the HPE Virtual Application Networks (VAN) SDN Controller enables automated network posture assessment and real-time security across OpenFlow-enabled network devices like switches and routers.					
Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)						
HPE Network Protector SDN Application Series Licenses <ul style="list-style-type: none"> HPE Network Protector RepDV Subscription 1000 Concurrent Clients 1 Year E-LTU (JL006AAE) HPE Network Protector RepDV Subscription 2000 Concurrent Clients 1 Year E-LTU (JL007AAE) 		<ul style="list-style-type: none"> HPE Network Protector RepDV Subscription 4000 Concurrent Clients 1 Year E-LTU (JL008AAE) HPE Network Protector RepDV Subscription 250 Concurrent Clients 1 Year E-LTU (JL005AAE) 				
		Supported switches	Required HPE Switch Software	Platform required server	Minimum system requirements server	Recommended software server
HPE Network Visualizer SDN Application Series						
	HPE Network Visualizer SDN Application E-LTU (JL091AAE)	HPE 2920, 3800, 5400 (v2 models), 8200 (v2 models), 5400R (v2 models), 5400R (v3 models)	K_15_17_xxxx.swi, KA_15_17_xxxx.swi, WB_15_17_xxxx.swi	Minimum HPE VAN SDN Controller version <ul style="list-style-type: none"> HPE VAN SDN Controller 2.6 	3.0 GHz Intel® Xeon® or Intel Core™ 2 Quad processor or equivalent 8 GB RAM memory 1000 Mbps NIC	Ubuntu 12.04 LTS 64-bit
	HPE Network Visualizer SDN Application Series at a glance The HPE Network Visualizer SDN Application utilizes HPE VAN SDN Controller software to provide dynamic traffic capture with real-time, detailed network monitoring, allowing for fast network diagnosis and verification, and a rapid transition from incident to fix.					
Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)						
HPE Network Visualizer SDN Application Series This product has no modules or accessories.						

Security solutions

Today's mobile workforce has completely diluted the notion of a fixed perimeter—it doesn't exist where users connect and work from anywhere. To protect the enterprise and its resources, IT must consider security that starts from the inside out.

The Aruba ClearPass Policy Management Platform is a central component that allows IT to adapt and apply trust levels based on every user and device that requests wireless, wired or VPN access. To do this, ClearPass leverages real-time, contextual data that IT can trust—a person's role inside an organization, device and app attributes, location and insight from third party security solutions—to create policies that satisfy highly mobile security needs. We call this approach Adaptive Trust.

ClearPass works across any multivendor network by replacing outdated legacy AAA with context-aware policies. And includes profiling, BYOD and guest onboarding, integration with MDM/EMM, firewalls, SIEM solutions, and scalability features to meet today's evolving business needs.

	Centrally enforces enterprise-grade mobility and NAAC	Advanced reporting and alerting	Built-in AAA services	External captive portal redirect capability	Supports multiple authentication/authorization sources	Multivendor support	Built-in profiling	Redundant configuration supported
Aruba ClearPass Policy Manager	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Aruba ClearPass Policy Manager at a glance Provides role and device-based network access control for employees, contractors and guests across any multivendor wired, wireless and VPN infrastructure. With a built-in context-based policy engine, RADIUS, TACACS+ protocol support, device profiling and comprehensive posture assessment, onboarding, and guest access options, ClearPass is unrivaled as a foundation for network security in any organization. Available as a hardware or virtual appliance.								
Notes: Virtual appliances are supported on VMware ESX/i and Microsoft Hyper-V: <ul style="list-style-type: none"> • ESX 4.0, ESXi 4.1, up to 6.0 • Hyper-V 2012 R2 and Windows 2012 R2 Enterprise Virtual appliance sizing must match hardware appliance specifications								

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba ClearPass Onboard

Product sizing options

- Aruba ClearPass Policy Manager – 500 endpoints
- Aruba ClearPass Policy Manager – 5,000 endpoints
- Aruba ClearPass Policy Manager – 25,000 endpoints

	Self-registration supported	Customizable portals	Third-party integration	Hotspot management	Enterprise-grade security	Role-based policy enforcement	High capacity guest support	Built-in advertising module
Aruba ClearPass Guest*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Aruba ClearPass Guest*

Aruba ClearPass Guest

Aruba ClearPass Guest at a glance

A scalable, easy-to-use visitor management solution that delivers secure automated guest access workflows for visitors, contractors, partners, shoppers, and fans on wireless and wired networks, using any type of mobile device.

* A ClearPass Policy Manager Application. Not a standalone product

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba ClearPass Guest

Product sizing options

- Guest License for Aruba ClearPass Policy Manager – 100 endpoints
- Guest License for Aruba ClearPass Policy Manager – 500 endpoints
- Guest License for Aruba ClearPass Policy Manager – 1,000 endpoints
- Guest License for Aruba ClearPass Policy Manager – 2,500 endpoints
- Guest License for Aruba ClearPass Policy Manager – 5,000 endpoints

- Guest License for Aruba ClearPass Policy Manager – 10,000 endpoints
- Guest License for Aruba ClearPass Policy Manager – 25,000 endpoints
- Guest License for Aruba ClearPass Policy Manager – 50,000 endpoints
- Guest License for Aruba ClearPass Policy Manager – 100,000 endpoints

Enterprise Perpetual license

- Enterprise License for ClearPass Policy Manager

Guest subscriptions

- 1 Year Guest Subscription for ClearPass Policy Manager
- 3 Year Guest Subscription for ClearPass Policy Manager
- 5 Year Guest Subscription for ClearPass Policy Manager

Enterprise subscriptions

- 1 Year Enterprise Subscription for ClearPass Policy Manager
- 3 Year Enterprise Subscription for ClearPass Policy Manager
- 5 Year Enterprise Subscription for ClearPass Policy Manager

Security solutions

	Self-registration supported	Active Directory and social login support	Customized device provisioning	Built-in certificate authority for BYOD	Revocation of unique certificates
Aruba ClearPass Onboard*					
Aruba ClearPass Onboard	Yes	Yes	Yes	Yes	Yes

Aruba ClearPass Onboard at a glance

Provides automatic configuring and provisioning for mobile devices—Windows desktop, Mac OS X, iOS, Ubuntu, Chromebook, and Android 2.2 and above—enabling them to securely connect to enterprise networks in support of BYOD initiatives.

* A ClearPass Policy Manager Application. Not a standalone product

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba ClearPass Onboard

Application options

- Onboard for Aruba ClearPass Policy Manager – 100 endpoints
- Onboard for Aruba ClearPass Policy Manager – 500 endpoints
- Onboard for Aruba ClearPass Policy Manager – 1,000 endpoints
- Onboard for Aruba ClearPass Policy Manager – 2,500 endpoints
- Onboard for Aruba ClearPass Policy Manager – 5,000 endpoints
- Onboard for Aruba ClearPass Policy Manager – 10,000 endpoints
- Onboard for Aruba ClearPass Policy Manager – 25,000 endpoints

- Onboard for Aruba ClearPass Policy Manager – 50,000 endpoints
- Onboard for Aruba ClearPass Policy Manager – 100,000 endpoints

Enterprise Perpetual license

- Enterprise License for ClearPass Policy Manager

Subscription licenses

- 1 Year Onboard Subscription License for ClearPass Policy Manager
- 3 Year Onboard Subscription License for ClearPass Policy Manager
- 5 Year Onboard Subscription License for ClearPass Policy Manager

Enterprise subscriptions

- 1 Year Enterprise Subscription License for ClearPass Policy Manager
- 3 Year Enterprise Subscription License for ClearPass Policy Manager
- 5 Year Enterprise Subscription License for ClearPass Policy Manager
- ClearPass Policy Manager – 500 endpoints
- Aruba ClearPass Policy Manager – 5,000 endpoints
- Aruba ClearPass Policy Manager – 25,000 endpoints

	Persistent and dissolvable agents supported	Support for multiple OS	Auto-remediation and quarantining supported	Endpoint visibility	Real-time endpoint compliance
Aruba ClearPass OnGuard*					
Aruba ClearPass OnGuard	Yes	Yes	Yes	Yes	Yes

Aruba ClearPass OnGuard at a glance

Performs advanced endpoint posture assessments, on leading computer operating systems to ensure compliance is met before devices connect. In addition to anti-virus, anti-spyware and personal firewall audits performed by traditional NAC products, OnGuard agents can perform additional posture and health checks, to ensure a greater level of endpoint compliance.

* A ClearPass Policy Manager Application. Not a standalone product

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit arubanetworks.com.)

Aruba ClearPass OnGuard

Application options

- OnGuard license for Aruba ClearPass Policy Manager – 100 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 500 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 1,000 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 2,500 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 5,000 endpoints

- OnGuard license for Aruba ClearPass Policy Manager – 10,000 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 25,000 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 50,000 endpoints
- OnGuard license for Aruba ClearPass Policy Manager – 100,000 endpoints

Enterprise Perpetual license

- Enterprise License for ClearPass Policy Manager




Guest subscriptions

- 1 Year OnGuard Subscription License for ClearPass Policy Manager
- 3 Year OnGuard Subscription License for ClearPass Policy Manager
- 5 Year OnGuard Subscription License for ClearPass Policy Manager

Enterprise subscriptions


- 1 Year Enterprise Subscription License for ClearPass Policy Manager
- 3 Year Enterprise Subscription License for ClearPass Policy Manager
- 5 Year Enterprise Subscription License for ClearPass Policy Manager

Security solutions

	Height (RU)	Slots	Fixed interfaces	Modular interfaces	Stateful FW performance	Max virtual FWs	Max concurrent sessions	Max IPsec tunnels	VPN performance	
HPE F5000 Firewall Standalone Chassis										
	HPE F5000 Firewall Standalone Chassis (JG216A)	7U	5 slots 1 MPU, 4 SPU	2-GE (Mgmt. & HA) 2 USB (1 Host, 1 Device)	12 GE 12 SFP 2 XFP	40 Gbps	512	4 million	5,000	2 Gbps
	HPE F5000-S VPN Firewall Appliance (JG370A)	0	1 slot	12-GE SFP ports	0	20 Gbps	256	4 million	8,000	4 Gbps
	HPE F5000-C VPN Firewall Appliance (JG650A)	0	1 slot	12-GE SFP ports	0	12 Gbps	256	4 million	6,000	3 Gbps


HPE F5000 Firewall Standalone Chassis at a glance

A high-performance stateful firewall that delivers carrier-grade reliability in a scalable package designed to fit the needs of large enterprise deployments. It includes an advanced virtual firewall, hot-swappable power supplies, and rich VPN features such as IPsec/GRE/L2TP.

HPE F1000-E VPN Firewall Appliance										
	HPE F1000-E VPN Firewall Appliance (JD272A)	1U	0	4 Combo 2 USB (1 Host, 1 Device)	4 GE 8 GE	8 Gbps	256	2 million	2,000	2 Gbps

HPE F1000-E VPN Firewall Appliance at a glance

A high-performance stateful firewall that is ideal for large branch offices and regional sites. It includes an advanced virtual firewall and rich VPN features such as IPsec/GRE/L2TP. Routing features such as BGP, RIP, and OSPF are supported.

HPE F1000-EI VPN Firewall Appliance										
	HPE F1000-EI VPN Firewall Appliance (JG214A)	1U	0	12 Combo 1 USB (Host)	4 SFP 2 XFP	4 Gbps	128	1 million	4,000	600 Mbps

HPE F1000-EI VPN Firewall Appliance at a glance

A mid-performance stateful firewall that is ideal for medium-sized branch offices and regional sites. It includes an advanced virtual firewall and rich VPN features such as IPsec/GRE/L2TP. Routing features such as BGP, RIP, and OSPF are supported.

HPE F1000-S-EI VPN Firewall Appliance										
	HPE F1000-S-EI VPN Firewall Appliance (JG213A)	1U	0	12 Combo 1 USB (Host)	4 SFP 2 XFP	2 Gbps	64	1 million	2,000	400 Mbps

HPE F1000-S-EI VPN Firewall Appliance at a glance

An entry-level performance stateful firewall that is ideal for small branch offices and regional sites. It includes an advanced virtual firewall and rich VPN features such as IPsec/GRE/L2TP. Routing features such as BGP, RIP, and OSPF are supported.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE F5000 Firewall Standalone Chassis

Modules

- HPE F5000 8p GbE SFP/4p GbE Combo Module (JG212A)
- HPE S5000-A5 VPN 2-Port 10GbE Module (JD264A)
- HPE S5000-A5 VPN 12-Port GbE Module (JD263A)

Firewalls

- HPE F5000 Firewall Main Processing Unit (JG215A)

Fan

- HPE F5000 Fan Assembly (JG217A)

HPE F5000-S VPN Firewall Appliance (JG370A)

Module

- HPE F5000-S/C 12-port 10/100/1000BASE-T/12-port GbE SFP/6-port 10GbE SFP+ Module (JG651A)

Power supplies

- HPE 5800 300W AC Power Supply (JC087A)
- HPE 5800 300W DC Power Supply (JC090A)

Fan

- HPE F5000-S/C VPN Firewall Fan Module (JG878A)

HPE 5000-C VPN Firewall Appliance (JG650A)

Module

- HPE F5000-S/C 12-port 10/100/1000BASE-T/12-port GbE SFP/6-port 10GbE SFP+ Module (JG651A)

Power supplies

- HPE 5800 300W AC Power Supply (JC087A)
- HPE 5800 300W DC Power Supply (JC090A)

Fan

- HPE F5000-S/C VPN Firewall Fan Module (JG878A)

HPE F1000-E VPN Firewall Appliance

- HPE 6600 4-port Gig-T HIM Module (JC163A)
- HPE 6600 8-port Gig-T HIM Module (JC164A)
- HPE 6600 1-port 10GbE XFP HIM Module (JC168A)
- HPE 6600 4-port GbE SFP HIM Module (JC171A)

HPE F1000-EI VPN Firewall Appliance

- HPE F1000-S/A 2-port 10GbE SFP+ Module (JG317A)
- HPE 5800/5500 150W AC Power Supply (JD362A)
- HPE 5800/5500 150W DC Power Supply (JD366A)

HPE F1000-S-EI VPN Firewall Appliance

- HPE F1000-S/A 2-port 10GbE SFP+ Module (JG317A)
- HPE 5800/5500 150W AC Power Supply (JD362A)
- HPE 5800/5500 150W DC Power Supply (JD366A)

Transceivers

See pages 83–89 for the Networking Transceiver Matrix.

Small and Midsize business



Small and Midsize Business Networking Solutions

HPE is a leading provider of networks for Small and Midsize businesses with its HPE OfficeConnect™ solutions. OfficeConnect helps you do more with less—enabling you to share resources and collaborate without complexity. The products are simple to manage, affordable to own and reliable to operate for Small and Midsize businesses with limited IT expertise and resources.

Smart managed switches are lightly configurable using an intuitive Web-based interface. They offer key features not found in unmanaged switches—virtual LANs, link aggregation, and, in some cases, even static routing and access control lists. They are ideal for Small and Midsize businesses with more developed networking requirements.


HPE also has a strong offering of unmanaged switches. These plug-and-play devices deliver wire-speed performance at Gigabit or Fast Ethernet speeds, with zero administration required.

For growing businesses that need reliable connectivity for today's mobile workers, the Aruba Instant controllerless Wi-Fi solution delivers superior performance, business-grade security and resiliency with the simplicity of zero-touch deployment. Integrated Adaptive Radio Management and patented ClientMatch technologies mitigate interference and intelligently steer clients to the strongest Wi-Fi signal to optimize the performance and reliability of the Wi-Fi network.

Small and Midsize business

Switches

Switches—Smart Web Managed

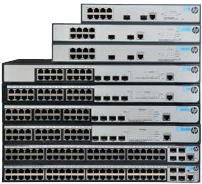
	Height (RU)	Module slots	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X)	SFP+ (1/10GbE) ports (max)	1/10GBASE-T ports (max)	Switching capacity	
HPE OfficeConnect 1950 Switch Series									
	HPE OfficeConnect 1950-48G-4XG-PoE+(370W) Switch (JG963A)	1	0	0	48	0	2	2	176 Gbps
	HPE OfficeConnect 1950-24G-4XG-PoE+(370W) Switch (JG962A)	1	0	0	24	0	2	2	128 Gbps
	HPE OfficeConnect 1950-48G-4XG Switch (JG961A)	1	0	48	0	0	2	2	176 Gbps
	HPE OfficeConnect 1950-24G-4XG Switch (JG960A)	1	0	24	0	0	2	2	128 Gbps
<p>HPE OfficeConnect 1950 Switch Series at a glance</p> <p>Advanced smart Web-managed Gigabit Ethernet switches with 10-Gigabit Ethernet uplinks for Small and Midsize business customers needing high-performance connections to servers and network storage. HPE OfficeConnect 1950 products support true stacking, allowing up to four devices to be logically administered as a single entity, simplifying administration while supporting greater network redundancy. Models support IPv4 and IPv6 operation with Layer 2 switching as well as Layer 3 static routing. Other features include link aggregation to boost link performance; VLANs, ACLs, and IEEE 802.1X network login for enhanced security; and three versions of Spanning Tree Protocol (STP) for added network resiliency.</p>									

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1950 Switch Series

Transceivers

See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	Module slots	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X)	SFP+ (1/10GbE) ports (max)	1/10GBASE-T ports (max)	Switching capacity	
HPE OfficeConnect 1920 Switch Series									
	HPE OfficeConnect 1920-48G-PoE+ (370W) Switch (JG928A)	1	0	0	48	4	0	0	104 Gbps
	HPE OfficeConnect 1920-48G Switch (JG927A)	1	0	48	0	4	0	0	104 Gbps
	HPE OfficeConnect 1920-24G-PoE+ (370W) Switch (JG926A)	1	0	0	24	4	0	0	56 Gbps
	HPE OfficeConnect 1920-24G-PoE+ (180W) Switch (JG925A)	1	0	0	24	4	0	0	56 Gbps
	HPE OfficeConnect 1920-24G Switch (JG924A)	1	0	24	0	4	0	0	56 Gbps
	HPE OfficeConnect 1920-16G Switch (JG923A)	1	0	16	0	4	0	0	40 Gbps
	HPE OfficeConnect 1920-8G-PoE+ (180W) Switch (JG922A)	1	0	0	8	2	0	0	20 Gbps
	HPE OfficeConnect 1920-8G-PoE+ (65W) Switch (JG921A)	1	0	0	8	2	0	0	20 Gbps
	HPE OfficeConnect 1920-8G Switch (JG920A)	1	0	8	0	2	0	0	20 Gbps
<p>HPE OfficeConnect 1920 Switch Series at a glance</p> <p>Advanced smart-managed fixed-configuration Gigabit Ethernet switches designed for Small and Midsize businesses in an easy-to-administer solution. Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 static routing, IPv6, ACLs, and Spanning Tree Protocols.</p>									

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1920 Switch Series


Transceivers

See pages 83–89 for the Networking Transceiver Matrix.

Small and Midsize business

Switches

Switches—Smart Web managed (continued)

	Height (RU)	Module slots	10/100 ports (max)	10/100 PoE+ ports (max)	10/100/1000 ports (max)	SFP (1000BASE-X)	Dual-personality ports (max)	Switching capacity	
HPE OfficeConnect 1910 Switch Series									
	HPE OfficeConnect 1910-48 Switch (JG540A)	1	0	48	0	2	2	0	17.6 Gbps
	HPE OfficeConnect 1910-24 Switch (JG538A)	1	0	24	0	0	0	2	8.8 Gbps
	HPE OfficeConnect 1910-24-PoE+ Switch (JG539A)	1	0	0	24	0	0	2	8.8 Gbps
	HPE OfficeConnect 1910-8-PoE+ Switch (JG537A)	1RU/ Desktop	0	0	8	0	0	2	5.6 Gbps
	HPE OfficeConnect 1910-8 Switch (JG536A)	1RU/ Desktop	0	8	0	0	0	2	5.6 Gbps

HPE OfficeConnect 1910 Switch Series at a glance
 Smart managed Fast Ethernet switches ideal for Small and Midsize businesses wanting advanced features in an economical Fast Ethernet switch. Features include Layer 3 static routing, ACLs, 802.1X, IGMP snooping, QoS, STP/RSTP/MSTP, VLANs, IPv6 management and routing, and link aggregation. Plug-and-play setup yet highly customizable using an advanced Web-based interface for advanced feature setup. Includes two PoE models. PoE models available for Voice over IP implementations.

Note: HPE OfficeConnect 1910 GbE models have transitioned to HPE OfficeConnect 1920 GbE models.
 * Dual-personality ports can be used as either an RJ-45 10/100/1000 port or as an SFP port

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1910 Switch Series

Transceivers and cables

See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	Module slots	10/100 ports (max)	10/100/1000 ports (max)	10/100/1000 PoE+ ports (max)	SFP (1000BASE-X)	Dual-personality ports (max)	Switching capacity
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HPE OfficeConnect 1820 Switch Series



HPE OfficeConnect 1820-48G-PoE+ (370W) Switch (J9984A)	1	0	0	24	24	4	0	104 Gbps
HPE OfficeConnect 1820-24G-PoE+ (185W) Switch (J9983A)	1	0	0	12	12	2	0	52 Gbps
HPE OfficeConnect 1820-8G-PoE+ (65W) Switch (J9982A)	1RU/ Desktop	0	0	4	4	0	0	16 Gbps
HPE OfficeConnect 1820-48G Switch (J9981A)	1	0	0	48	0	4	0	104 Gbps
HPE OfficeConnect 1820-24G Switch (J9980A)	1	0	0	24	0	2	0	52 Gbps
HPE OfficeConnect 1820-8G Switch (J9979A)	1RU/ Desktop	0	0	8	0	0	0	16 Gbps

HPE OfficeConnect 1820 Switch Series at a glance
 Basic smart-managed, fixed-configuration Gigabit Ethernet Layer 2 switches with features in an easy-to-administer solution. Plug-and-play out of the box, yet network operation can be fine-tuned through features available from a simple web browser-based GUI, if necessary. Customizable features include VLANs, Rapid Spanning Tree, IGMP Snooping, link aggregation trunking and DSCP QoS policies. All models include the latest energy-saving capabilities, including Energy Efficient Ethernet (EEE) and idle-port power down.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1820 Switch Series

Mounting kit

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)


Transceivers and cables

See pages 83–89 for the Networking Transceiver Matrix.

Small and Midsize business

Switches

Switches—Smart Web managed (continued)

	Height (RU)	Module slots	10/100 ports (max)	10/100 PoE ports (max)	10/100/1000 ports (max)	SFP (1000BASE-X)	Switching capacity
HPE OfficeConnect 1810 Switch Series							
	HPE OfficeConnect 1810-24 v2 Switch (J9801A)	1	0	22	0	2	12.4 Gbps
	HPE OfficeConnect 1810-8 v2 Switch (J9800A)	1RU/ Desktop	0	7	0	1	0

HPE OfficeConnect 1810 Switch Series at a glance
 Entry-level, smart-managed Fast Ethernet switches for Small and Midsize businesses. Easily configurable via an intuitive Web interface. Features include VLANs, loop protection, link aggregation trunking, Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Kensington lock slot security. Compact 8-port can be PoE powered for remote placement. Energy-efficient green design.

Note: HPE OfficeConnect 1810 GbE models have transitioned to the HPE OfficeConnect 1820 GbE models.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)


HPE OfficeConnect 1810 Switch Series

Transceivers and cables

Mounting kit

See pages 83–89 for the Networking Transceiver Matrix.

- HPE X410 1U Universal 4-post Rack Mounting Kit (J9583A)

	Height (RU)	Module slots	10/100 ports (max)	10/100/1000 ports (max)	SFP (100BASE-FX)	SFP (1000BASE-X)	Switching capacity
HPE OfficeConnect 1620 Switch Series							
	HPE OfficeConnect 1620-48G Switch (JG914A)	1	0	0	48	0	96 Gbps
	HPE OfficeConnect 1620-24G Switch (JG913A)	1	0	0	24	0	48 Gbps
	HPE OfficeConnect 1620-8G Switch (JG912A)	1RU/ Desktop	0	0	8	0	0

HPE OfficeConnect 1620 Switch Series at a glance
 Entry-level smart-managed, pure 10/100/1000 switches that are ideal for Small and Midsize businesses looking for basic features to enhance network performance and security, such as link aggregation and VLANs. These switches are plug-and-play out of the box, and include an intuitive Web GUI that provides ease of access to fine-tune switch operation. The 1620 series consists of 8-, 24-, and 48-port models that can be rack mounted.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)


HPE OfficeConnect 1620 Switch Series

This product has no modules or accessories.

Small and Midsize business

Switches


Switches—Unmanaged

	Height (RU)	10/100/1000 ports (max)	SFP (100/1000 Mbps) ports (max)	SFP+ (1/10GbE) ports (max)	Switching capacity	
HPE OfficeConnect 1420 Switch Series						
	HPE OfficeConnect 1420-24G-2SFP+ 10G Uplink Switch (JH018A)	1	24	0	2	88 Gbps
	HPE OfficeConnect 1420-24G-PoE+ (124W) Switch (JH019A)	1	24 PoE+	0	0	48 Gbps
	HPE OfficeConnect 1420-24G-2SFP Switch (JH017A)	1	24	2	0	52 Gbps
	HPE OfficeConnect 1420-16G Switch (JH016A)	1	16	0	0	32 Gbps
HPE OfficeConnect 1420 Switch Series at a glance Unmanaged Gigabit Ethernet switches, for Small and Midsize business and others looking for plug-and-play basic Layer 2 connectivity for their network, including low-cost PoE+ and 10-Gigabit uplink models. The 1420 Switch Series includes four Gigabit switches. All have 10/100/1000 ports for affordable Gigabit connections using copper Cat 5e cabling.						

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1420 Switch Series
This product has no modules or accessories.

Transceivers and cables
See pages 83–89 for the Networking Transceiver Matrix.

	Height (RU)	Module slots	10/100 ports	10/100 PoE ports	10/100/1000 ports	SFP (1000BASE-X)	Switching capacity
HPE OfficeConnect 1410 Switch Series							
	HPE OfficeConnect 1410-24G-R Switch (JG708A)	1	0	0	24	0	4.8 Gbps
	HPE OfficeConnect 1410-24-2G Switch (J9664A)	1	0	24	2	0	8.8 Gbps
	HPE OfficeConnect 1410-24-R Switch (JD986B)	1	0	24	0	0	4.8 Gbps
	HPE OfficeConnect 1410-24 Switch (J9663A)	1	0	24	0	0	4.8 Gbps
	HPE OfficeConnect 1410-16 Switch (J9662A)	1	0	16	0	0	3.2 Gbps
	HPE OfficeConnect 1410-8 Switch (J9661A)	Desktop	0	8	0	0	0
HPE OfficeConnect 1410 Switch Series at a glance Unmanaged plug-and-play switches ideal for Small and Midsize business and entry-level networking. Flexible mounting options including rack mounting of 16- and 24-port models or desktop placement of compact 8-port models. Fanless design for quiet operation. Energy-efficient, green, power-saving features including the industry's advanced unmanaged Gigabit and Fast Ethernet switches (JG708A, J9663A, and J9662A), and compliant with the IEEE 802.3az Energy Efficient Ethernet standard.							

Note: HPE OfficeConnect 1410 GbE models have transitioned to the HPE OfficeConnect 1420 GbE models.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)


HPE OfficeConnect 1410 Switch Series

Transceivers and cables
See pages 83–89 for the Networking Transceiver Matrix.

Small and Midsize business

Switches

Switches—Unmanaged (continued)

		Height (RU)	10/100 ports	10/100/1000 ports	IEEE 802.1p prioritization
HPE OfficeConnect 1405 Small Office Switch Series					
	HPE OfficeConnect 1405-16G Desktop Switch (JD844A)	Desktop	0	16	Yes
	HPE OfficeConnect 1405-8G V2 Switch (J9794A)	Desktop	0	8	Yes
	HPE OfficeConnect 1405-5G V2 Switch (J9792A)	Desktop	0	5	Yes
	HPE OfficeConnect 1405-16 Desktop Switch (JD858A)	Desktop	16	0	Yes
	HPE OfficeConnect 1405-8 V2 Switch (J9793A)	Desktop	8	0	Yes
	HPE OfficeConnect 1405-5 V2 Switch (J9791A)	Desktop	5	0	Yes

HPE OfficeConnect 1405 Small Office Switch Series at a glance
 Unmanaged desktop switches for small office/home office networking. Certified "Class B" for business or home use. Quick plug-and-play setup and fanless design for silent operation. Energy-efficient, green, and power-saving features.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect 1405 Small Office Switch Series

This product has no modules or accessories.

	Height (RU)	10/100/1000 ports (max)	PoE support	Switching capacity
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HPE NJ5000 5G PoE+ Walljack



HPE NJ5000 5G PoE+ Walljack (JH237A)	Mounts in a standard wall outlet box or on optional Flush Mount/ Desktop Mount kit	5	Device can forward PoE power to attached downstream devices. If powered by a PoE+ switch or power injector, unit can power two attached devices with a total power budget of 15.4 watts; if powered by a PoE switch or injector, unit can power one attached device with a total power budget of 4 watts.	10 Gbps
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HPE NJ5000 5G PoE+ Walljack at a glance
 A compact 10/100/1000 switch that can be installed in a standard wall outlet box, quickly converting an existing single-port LAN wall outlet into four-switched Gigabit Ethernet ports. This walljack can provide a simple solution for adding network ports without running more cabling. It supports Layer 2 switching, with features like VLANs, Spanning Tree, RSTP, and MSTP. It comes with full enterprise-class management capability via the SNMP, CLI, and Web GUI, with flexibility of changing to unmanaged mode for plug-and-play simple deployment.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE NJ5000 5G PoE+ Walljack

Power Supply

- HPE 1-port Power Injector (J9407B)
- HPE Single-Port 802.3at Gigabit PoE In-Line Power Supply (J9867A)

Mounting Kit

- HPE Unified Wired-WLAN Walljack Table/Flush Wall Mount Kit (JL022A)

Small and Midsize business

Wireless

Wireless Routers		Height (RU)	Module slots	Included ports	USB ports	SDRAM (Included/available)	Throughput (PPS)	Flash
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HPE FlexNetwork MSR900 Router Series



HPE FlexNetwork MSR920-W Router (JF815A)	1	Fixed	2 RJ-45 autosensing 10/100 WAN port + 8 RJ-45 autosensing 10/100 LAN ports + 802.11b/g + 2 antennas	1	256 MB/256 MB	up to 100 Kpps	256 MB
HPE FlexNetwork MSR920 Router (JF813A)	1	Fixed	2 RJ-45 autosensing 10/100 WAN port + 8 RJ-45 autosensing 10/100 LAN ports	1	256 MB/256 MB	up to 100 Kpps	256 MB
HPE FlexNetwork MSR900-W Router (JF814A)	1	Fixed	2 RJ-45 autosensing 10/100 WAN port + 4 RJ-45 autosensing 10/100 LAN ports + 802.11b/g + 1 antenna	1	256 MB/256 MB	up to 70 Kpps	256 MB
HPE FlexNetwork MSR900 Router (JF812A)	1	Fixed	2 RJ-45 autosensing 10/100 WAN port + 4 RJ-45 autosensing 10/100 LAN ports	1	256 MB/256 MB	up to 70 Kpps	256 MB

HPE FlexNetwork MSR900 Router Series at a glance

Delivers integrated routing, switching, security, and IEEE 802.11b/g wireless LAN in a single box for secure, reliable small branch connectivity. These routers are perfect "branch-in-a-box" appliances that deliver converged network solutions, including data, voice and video, IPv6 support, and robust Quality of Service (QoS), and help ensure that they can handle both current enterprise networking applications as well as the future connectivity and capacity demands of an HPE FlexNetwork architecture.




Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE FlexNetwork MSR900 Series

This product has no modules or accessories.

Small and Midsize business (>100 users)

Wireless

Access points series		10/100/1000 ports (max)	PoE/PoE+ (IEEE 802.3af/at) ports	Number of radios	Virtual AP/multiple SSID (max)	ClientMatch technology	Wi-Fi certification	IEEE 802.11a/b/g/n/ac	Internal antennas (standard)	External antennas (optional)
HPE 225 Instant Access Point Series										
	HPE 225 Instant Dual Radio 802.11ac (WW) Access Point (JL190A)	2	2	2 (1300 Mbps + 600 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0
	HPE 225 Instant Dual Radio 802.11ac (US) Access Point (JL191A)	2	2	2 (1300 Mbps + 600 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0
	HPE 225 Instant Access Point Series at a glance Provides three spatial stream gigabit Wi-Fi performance to 802.11ac mobile devices in high density environments. Integrated Aruba ClientMatch™ ensures consistently high performance across the WLAN infrastructure.									
HPE 215 Instant Access Point Series										
	HPE 215 Instant Dual Radio 802.11ac (WW) Access Point (JL186A)	1	1	2 (1300 Mbps + 450 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0
	HPE 215 Instant Dual Radio 802.11ac (US) Access Point (JL187A)	1	1	2 (1300 Mbps + 450 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0
HPE 215 Instant Access Point Series at a glance Delivers an affordable three spatial stream 802.11ac solution that maximizes mobile device performance in medium- density, high performance Wi-Fi environments.										
HPE 205 Instant Access Point Series										
	HPE 205 Instant Dual Radio 802.11ac (WW) Access Point (JL184A)	1	1	2 (867 Mbps + 300 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	4	0
	HPE 205 Instant Dual Radio 802.11ac (US) Access Point (JL185A)	1	1	2 (867 Mbps + 300 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	4	0
HPE 205 Instant Access Point Series at a glance Delivers a cost effective two spatial stream 802.11ac solution that maximizes of mobile device performance in medium density Wi-Fi environments.										

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

- HPE 350 Cloud-Managed Access Point Wall Mount Kit (JL018A)
- HPE 1-port Power Injector (J9407B)

Note: The HPE Instant Access Point Series is covered by the Aruba Limited lifetime warranty. See arubanetworks.com/support-services/product-warranties/ for details.

Small and Medium Business (>100 users)

Wireless

Access points series (continued)		10/100/1000 ports (max)	PoE/PoE+ (IEEE 802.3af/at) ports	Number of radios	Virtual AP/multiple SSID (max)	ClientMatch technology	Wi-Fi certification	IEEE 802.11a/b/g/n/ac	Internal antennas (standard)	External antennas (optional)
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HPE 205H Instant Access Point Series



HPE 205H Instant 802.11ac (WW) Walljack (JL230A*)	3	1	2 (867 Mbps + 300 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	4	0
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HPE 205H Instant Access Point Series at a glance
 Combines 802.11ac high performance wireless mobility with wired Gigabit Ethernet access in single device making them ideal for hotel rooms, dorms and branch offices.

*Not available in the US.

HPE 103 Instant Access Point Series



HPE 103 Instant Dual Radio 802.11n (WW) Access Point (JL188A)	1	1	2 (300 Mbps + 300 Mbps)	32	Yes	Yes	a/n + b/g/n	4	0
HPE 103 Instant Dual Radio 802.11n (US) Access Point (JL189A)	1	1	2 (300 Mbps + 300 Mbps)	32	Yes	Yes	a/n + b/g/n	4	0

HPE 103 Instant Access Point Series at a glance
 Delivers cost effective 802.11n dual band coverage in medium density enterprise Wi-Fi environments, using two spatial stream technology.

HPE 270 Instant Access Point Series



HPE 275 Instant 802.11ac (WW) Outdoor Access Points (JL33A*)	2	1	2 (1300 Mbps + 600 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0
HPE 277 Instant 802.11ac (WW) Outdoor Access Points (JL235A*)	2	1	2 (1300 Mbps + 600 Mbps)	32	Yes	Yes	a/n/ac + b/g/n	6	0

HPE 270 Instant Access Point Series at a glance
 Delivers gigabit Wi-Fi performance (1.3Gbps in the 5GHz and 600 Mbps in the 2.4GHz band) to 802.11ac mobile devices under any harsh weather conditions. It is also the only outdoor access point that enables 802.11n clients to operate three-times faster at greater distances.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

Power supply


- HPE AP 36W 48VDC Power Supply (JL231A)
- HPE Single-PRT 802.3at Gig PoE PS (J9867A)
- HPE 1-port Power Injector (J9407B)


Mounting kits


- HPE 270 Series Outdoor AP Tilt Mount Kit (JL236A)
- HPE 270 Series Outdoor AP Flush Mount Kit (JL237A)
- HPE 270 Series AP Long Pole/Wall Mount (JL238A)
- HPE 270 Series AP Short Pole/Wall Mount (JL239A)

Small and Medium Business (>100 users)

Wireless

Wireless		10/100/1000	PoE/PoE+ (IEEE 802.3af/at) ports	Number of radios	Virtual AP/multiple SSID (max)	Wireless Distribution System (WDS) Bridging	Wi-Fi certification	IEEE 802.11a/b/g/n	Internal antennas	External antennas
HPE OfficeConnect M330 802.11ac Access Point Series										
	HPE OfficeConnect M330 Dual Radio 802.11ac (AM) Access Point (JL062A)	1	1	2	16	Yes	Yes	a/b/g/n/ac	6	0
	HPE OfficeConnect M330 Dual Radio 802.11ac (JP) Access Point (JL064A)	1	1	2	16	Yes	Yes	a/b/g/n/ac	6	0
	HPE OfficeConnect M330 Dual Radio 802.11ac (WW) Access Point (JL063A)	1	1	2	16	Yes	Yes	a/b/g/n/ac	6	0
<p>HPE OfficeConnect M330 802.11ac Access Point Series at a glance Delivers high-performance wireless networking for Small and Midsize businesses. These access points support standalone operations or "clustering" of up to 16 M330 APs. These 3x3 MIMO technology devices offer simultaneous 1.3 Gbps IEEE 802.11ac performance and up to 450 Mbps IEEE 802.11n to support increasing device density and bandwidth-intensive applications such as video. Clustering technology simplifies administration, and advanced features such as business-class security and uninterrupted wireless client roaming provide a better user experience.</p>										

HPE OfficeConnect M220 802.11n Access Point Series										
	HPE OfficeConnect M220 802.11n AM Access Point (J9798A)	1	1	1	8	Yes	Yes	a/b/g/n	2	0
	HPE OfficeConnect M220 802.11n WW Access Point (J9799A)	1	1	1	8	Yes	Yes	a/b/g/n	2	0
<p>HPE OfficeConnect M220 802.11n Access Point Series at a glance Dual-band, single radio devices supporting high-speed wireless networking at 5 GHz or 2.4 GHz. They are fully compatible with the high-speed IEEE 802.11n wireless standard and are backward compatible for legacy IEEE 802.11a/b/g support. They can run stand alone or be clustered for simplified administration of multiple HPE OfficeConnect M220 access points. With clustering, configuration changes automatically propagate across all M220 access points in your network. Clustering technology requires no wireless controller or additional hardware. The M220 models support clusters of up to 16 devices.</p>										

HPE OfficeConnect M210 802.11n Access Point Series										
	HPE OfficeConnect M210 802.11n (AM) Access Point (JL023A)	1	1	1	4	Yes	Yes	a/b/g/n	2	0
	HPE OfficeConnect M210 802.11n (WW) Access Point (JL024A)	1	1	1	4	Yes	Yes	a/b/g/n	2	0
<p>HPE OfficeConnect M210 802.11n Access Point Series at a glance Dual-band, single radio devices supporting high-speed wireless networking at 5 GHz or 2.4 GHz. They are fully compatible with the high-speed IEEE 802.11n wireless standard and are backward compatible for legacy IEEE 802.11a/b/g support. The M210 models support clusters of up to four devices.</p>										

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)


HPE OfficeConnect M330 802.11ac Access Point Series
 This product has no modules or accessories.

HPE OfficeConnect M220-802.11n Access Point Series
 This product has no modules or accessories.

HPE OfficeConnect M210 802.11n Access Point Series
 This product has no modules or accessories.

Small and Medium Business (>100 users)

Server Optimized Networking

HPE OfficeConnect Optimized Networking Devices		Height (RU)	10/100/1000 ports (max)	10/100/1000 PoE ports (max)	SFP (100BASE-FX)	SFP 100/1000 Mbps	Switching capacity
HPE OfficeConnect PS1810 Switch Series							
	HPE OfficeConnect PS1810-8G Switch (J9833A)	1U/Desktop	8	0	0	0	16 Gbps
	HPE OfficeConnect PS1810-24G Switch (J9834A)	1	24	0	0	2	52 Gbps
HPE OfficeConnect PS1810 Switch Series at a glance Purpose-built smart-managed Gigabit Layer 2 switches designed for Small and Midsize businesses looking for an integrated, easy-to-administer HPE ProLiant server and switch solution.							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect PS1810 Switch Series

Transceivers and cables

See pages 83–89 for the Networking Transceiver Matrix.

HPE OfficeConnect PS110 Wireless Router		10/100/1000	Number of radios	Virtual AP/multiple SSID (max)	Wireless Distribution System (WDS) Bridging	Wi-Fi certification	IEEE 802.11a/b/g/n/ac	Internal antennas	External antennas
HPE OfficeConnect PS110 Wireless 11n VPN AM Rtr (JL065A)		1 RJ-45 10/100/1000 WAN port + 4 RJ-45 10/100/1000 LAN ports	1	4	Yes	Yes	a/b/g/n	3	0
HPE OfficeConnect PS110 Wireless 11n VPN WW Rtr (JL066A)		1 RJ-45 10/100/1000 WAN port + 4 RJ-45 10/100/1000 LAN ports	1	4	Yes	Yes	a/b/g/n	3	0
HPE OfficeConnect PS110 Wireless Router at a glance		An ideal all-in-one solution for Small and Midsize businesses. Purpose built to work with HPE ProLiant Gen9 and Gen8 servers. This business-class router includes a 4-port Gigabit Ethernet switch, an IEEE 802.11n access point for wireless connectivity, a Gigabit Ethernet WAN interface for Internet connectivity, and robust security features like SPI firewall and VPN technology to safeguard your organization. It features auto-discovery and monitoring of the HPE ProLiant server families, and its innovative design allows it to be stacked on the HPE ProLiant MicroServer Gen8.							

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE OfficeConnect PS110 Wireless Router

This product has no modules or accessories.

Recommended companion products

HPE ProLiant MicroServer Gen8



HPE ProLiant ML310e Gen8 v2 Server



HPE ProLiant DL320e Gen8 v2 Server



Unified Communications

Unified Communications											
	Optimized for Lync	Audio quality	Speakerphone	Sidetone support	Headset support	Display	Power	Ethernet ports	LLDP	CODEC supported	
Skype for Business solutions											
	HPE 4110 IP Phone (J9765A)	Yes	Wideband	Full duplex	Yes	No	3.5" Color QVGA	PoE Class 2	Dual 10/100/1000	Yes	RT Audio, G.711, G.722, G.722.1
	HPE 4120 IP Phone (J9766C)	Yes	Wideband	Full duplex	Yes	Yes (RJ9)	3.5" Color QVGA	PoE Class 2	Dual 10/100/1000	Yes	RT Audio, G.711, G.722, G.722.1
<p>Skype for Business solutions at a glance HPE 4110 and HPE 4120 IP Phones—Common area and desktop IP phones from HPE Networking, optimized for Skype for Business. The HPE 4110 and HPE 4120 IP Phones are natively integrated unified communications (UC) devices that deliver rich presence; clear, high-definition audio; and seamless plug-and-play functionality. This family of IP phones provides customers with integrated, tested, and optimized IP phones, fine-tuned for Skype for Business and engineered to meet the high-quality standards of HP. The HPE 4120 IP Phone Series supports Office 365.</p>											

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

Skype for Business solutions

Power supply

- HPE IP Phone 5V Power Supply (J9767A)

	Processor	Memory	Hard disk drive	Flash	USB 2.0	Internal port	External port	Applicable chassis	
HPE MSR Survivable Branch Communication Module Series									
	HPE MSR Small Survivable Branch Communication MIM Module powered by Skype for Business (JG587A)	Intel Atom N450 Processor (1.66 GHz)	2 GB DDR3	500 GB SATA 5400 rpm	512 MB	x 2	1GbE	1GbE	MSR30 series routers
	HPE MSR Medium Survivable Branch Communication MIM Module powered by Skype for Business (JG588A)	Intel Dual Core i7-620UE Processor (4M cache, 1.06 GHz, 2 cores, 4 threads)	4 GB DDR3	500 GB SATA 5400 rpm	512 MB	x 2	1GbE	1GbE	MSR30 series routers
<p>HPE MSR Survivable Branch Communication Modules at a glance HPE MSR Survivable Branch Communication Module (SBM) powered by Skype for Business provides survivable branch services such as external phone call capability while sustaining internal peer-to-peer communications when the data center cannot be reached.</p>									

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

HPE MSR Survivable Branch Communication Modules

For complete unified communications solutions, refer to HMIM, MIM, and SIC voice gateway modules in the HPE MSR4000, MSR3000, and MSR2000 on pages 41, 42, and 44, respectively. HMIM adapters are required when using MIM modules in MSR4000 and MSR3000 routers.

Application delivery platforms and solutions

Application delivery platforms and solutions								
	Processor	Memory	Hard disk drive	Operating system/application	USB 2.0	Applicable routers	Number of OAP modules per router	

HPE FlexNetwork MSR OAP MIM Module



HPE MSR Open Application Platform (OAP) with VMware vSphere MIM Module (JG532A)

Intel Core i7-620UE, 1060 MHz	4 GB DDR SDRAM	500 GB SATA	VMware vSphere 5.0	Yes	Supported on all 3000 4000 chassis, MSR30-16/MSR30-20/MSR30-40/MSR30-60, all MSR4000 and MSR3000 routers	2 max (in any MSR30-40 or MSR30-60 router) 1 (in the MSR30-16 and MSR30-20 router) Refer to MSR4000 and MSR3000 QuickSpecs for module configuration rules
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HPE MSR OAP MIM Modules at a glance
 The HPE MSR OAP MIM Module is a converged networking, computing, and virtualization solution inside the MSR router family that hosts one or multiple networking or business applications inside the MSR30-16 and above, as well as the MSR3000 and MSR4000 router series.

Note: For complete unified communications solutions, refer to HMIM, MIM, and SIC voice gateway modules in the HPE MSR4000 and MSR3000 on pages 41, and 42, respectively. HMIM adapters are required when using MIM modules in MSR4000 and MSR3000 routers.

	Processor	Memory	Hard disk drive	Operating system/application	USB 2.0	Applicable switches	Numbers of Services zI modules per switch
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HPE Advanced Services v2 zI Module with HDD



HPE Advanced Services v2 zI Module with HDD (J9857A)

Intel Core i7-3612QE (6 MB cache, up to 3.10 GHz quad core)	16 GB of DDR3-1333 ECC dual channel memory	1 TB enterprise-class SATA HDD	VMware 5.5 is supported but not included; must be purchased separately	Yes	5400/5400R/8200	Up to four service modules can be installed in a 5406 zI chassis; there are no restrictions on where the modules can be placed in the chassis Up to three service modules can be installed in an 8206 zI chassis; there are no restrictions on where the modules can be placed in the chassis Up to six service modules can be installed in a 5412 or an 8212 zI chassis; there are no restrictions on where the modules can be placed in the chassis
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HPE Advanced Services v2 zI Modules with HDD at a glance
 The HPE Advanced Services v2 zI Module hosts one or multiple VMware vSphere-compatible virtual applications in the Aruba 5400, 5400R, or 8200 Switch Series. VMware vSphere is not included.

	Processor	Memory	Hard disk drive	Operating system/application	USB 2.0	Applicable switches	Numbers of Services zI modules per switch
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HPE Advanced Services v2 zI Module with SSD



HPE Advanced Services v2 zI Module with SSD (J9858A)

Intel Core i7-3612QE (6 MB cache, up to 3.10 GHz quad core)	16 GB of DDR3-1333 ECC dual channel memory	800 GB enterprise-class SSD	VMware 5.5 is supported but not included; must be purchased separately	Yes	5400/5400R/8200	Up to four service modules can be installed in a 5406 zI chassis; there are no restrictions on where the modules can be placed in the chassis Up to three service modules can be installed in an 8206 zI chassis; there are no restrictions on where the modules can be placed in the chassis Up to six service modules can be installed in a 5412 or an 8212 zI chassis; there are no restrictions on where the modules can be placed in the chassis
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HPE Advanced Services v2 zI Module with SSD at a glance
 The HPE Advanced Services v2 zI Module hosts one or multiple VMware vSphere-compatible virtual applications in the Aruba 5400, 5400R, or 8200 Switch Series. VMware vSphere is not included.

Accessories (Accessories may vary per model number. For the complete and recent list of modules, transceivers, power options and other accessories, visit hpe.com/networking.)

Networking Product Matrix

	Specialty ports					Resiliency			Security			Convergence		Layer 3			Layer 2				IPv6		Network virtualization			
	PoE/PoE+	Fiber channel	10 GbE ports	40GbE ports	100GbE ports	Advanced stacking (IRF, etc.)	Redundant power	Redundant fabric	Hot-swap modules	Access control lists	RADIUS login	DHCP snooping	IEEE 802.1p prioritization	DSCP (DiffServ)	MPLS	RIP v1/v2	OSPF	Data Center Bridging (DCB)	Transparent Interconnection of Lots of Links (TRILL)	Multicast filtering	Link aggregation	IPv6 management	IPv6 routing	Virtual Extensible LAN (VXLAN)	Edge Virtual Bridging with Virtual Ethernet Port Aggregator (EVB/VEPA)	
Data Center switches																										
Modular switches																										
HPE FlexFabric 12900 Switch Series			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 12500 Switch Series			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 11900 Switch Series			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 7900 Switch Series			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fixed port switches																										
HPE FlexFabric 5930 Switch Series		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 5920 Switch Series		•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 5900 Switch Series			•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 5900CP Switch Series		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexFabric 5900v Virtual Switch Series																									•	
HPE FlexFabric 5830 Switch Series			•			•	•		•	•	•	•	•		•	•			•	•	•	•	•	•	•	•
HPE FlexFabric 5820 Switch Series		•	•			•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•	•	•
HPE FlexFabric 5800 Switch Series	•		•			•	•	•	•	•	•	•	•		•	•			•	•	•	•	•	•	•	•
HPE FlexFabric 5700 Switch Series			•	•		•	•		•	•	•	•	•		•	•		•	•		•	•	•	•	•	•
HPE Altoline 6960 Switch Series			•	•	•																				•	•
HPE Altoline 6940 Switch Series			•	•				•																	•	•
HPE Altoline 6920 Switch Series			•	•				•																	•	•
Blade switch and Virtual Connect																										
HPE 6100 Switch Series		•	•	•		•						•							•		•			•	•	•
HPE Virtual Connect Modules		•	•	•							•										•				•	•

Networking Product Matrix (continued)

	Specialty ports				Resiliency			Security			Convergence			Layer 3			Layer 2		IPv6		Network management		
	PoE/PoE+	Smart Rate multi-gigabit ports	10 GbE ports	40GbE ports	Supports service modules (firewall, VPN, WLAN, etc.)	Advanced stacking (IRF, etc.)	Redundant power	Redundant management modules	Hot-swap modules	Access control lists	RADIUS login	DHCP snooping/protection	IEEE 802.1p prioritization	DSCP (DiffServ)	Voice VLAN	BGP	Static routes	RIP v1/v2	OSPF	Multicast filtering	Link aggregation	IPv6 management	IPv6 routing
Campus switches																							
Modular switches																							
HPE FlexNetwork 10500 Switch Series			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 7500 Switch Series	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Access switches																							
Aruba 5400R z12 Switch Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 5510 HI Switch Series	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 5500 HI Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 5500 EI Switch Series	•		• ¹		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 3810 Switch Series	•	•	• ¹	• ¹	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 3800 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 3500 y1 Switch Series	•		• ¹		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 2920 Switch Series	•		• ¹		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 2915-8G-PoE Switch	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 5130 HI Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 5130 EI Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 2530 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 3600 EI Switch Series	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	•
HPE FlexNetwork 3600 SI Switch Series	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	• ²
Aruba 2620 Switch Series	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 2615-8-PoE Switch	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 3100 EI Switch Series	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE FlexNetwork 3100 SI Switch Series	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	•

¹ With module
² V2 switches only

	Management		Specialty ports		Resiliency		Security			Convergence			Layer 3		Layer 2		IPv6		
	Web-managed	Unmanaged	PoE/PoE+	10 GbE ports	Advanced stacking (IRF, etc.)	Redundant power	Access control lists	Management password	HTTPS/SSL	IEEE 802.1p prioritization	DSCP (DiffServ)	Voice VLAN	Static routes	ARP	DHCP Relay	IGMP snooping	Link aggregation	IPv6 management	IPv6 routing
Small and Midsize Business switches																			
HPE OfficeConnect 1950 Switch Series	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1920 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1910 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1820 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1810 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE PS1810 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1620 Switch Series	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect 1420 Switch Series		•	•	•															
HPE OfficeConnect 1410 Switch Series		•																	
HPE OfficeConnect 1405 Small Office Switch		•																	
HPE NJ5000 Walljack Switch Series	• ¹		• ²				•	•	•	•	•	•				•			

¹ Management capability via the SNMP, CLI, and Web GUI, with option for unmanaged mode
² PSE PoE forwarding

Networking Product Matrix (continued)

	Ports		Supported standards						Wireless features				Modes						Security			
	PoE/PoE+ ports	Multiple radio design	IEEE 802.11a	IEEE 802.11b	IEEE 802.11g	IEEE 802.11n	I IEEE 802.11ac (Wave 1)	IEEE 802.11ac (Wave 2)	Virtual AP/Multiple SSID	Advanced Cellular Coexistence (ACC)	RF Management	Wi-Fi multimedia (WMM) QoS	Controller-managed	Instant/Autonomous	Remote AP	Air Monitor	Spectrum analyzer	Mesh	Hybrid	IEEE 802.1X support	AES encryption	WPA/WPA 2
Wireless LAN (continued)																						
Access points																						
Aruba 330 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 320 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 310 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 220 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba AP-228	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 210 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 200 series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba 103 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 270 Instant Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 225 Instant Dual Radio 802.11ac Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 215 Instant Dual Radio 802.11ac Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 205 Instant Dual Radio 802.11ac Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 205H Instant Dual Radio 802.11ac Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE 103 Instant Dual Radio 802.11n Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect M330 802.11ac Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect M220 802.11n Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE OfficeConnect M210 802.11n Access Point Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wireless client adapters																						
HPE 501 Wireless Client Bridge Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

	Security features							HA		Management			
	Stateful FW	Virtual firewalls	IPsec-VPN with 3DES encryption	GRE tunneling	DDOS protection	AAA—RADIUS, HWTACACS+, Local Auth	IKE—pre-shared keys	Active-active or active-passive	Redundant power supplies	IMC Network Management (status, health, monitoring)	Command Line Interface (CLI)	Onboard Web-based mgmt	Telnet
Security solutions													
VPN-FW appliances													
HPE F5000-A5 Firewall Standalone Chassis*	•	•	•	•	•	•	•	•	•	•	•	•	
HPE F1000-E VPN Firewall Appliance	•	•	•	•	•	•	•	•	•	•	•	•	
HPE F1000-EI VPN Firewall Appliance	•	•	•	•	•	•	•	•	•	•	•	•	
HPE F1000-S-EI VPN Firewall Appliance	•	•	•	•	•	•	•	•	•	•	•	•	

* F5000-A5 Firewall chassis can be configured with:

- HPE F5000 Firewall Main Processing Unit
- HPE F5000 8p GbE SFP/4p GbE Combo Module
- HPE F5000 Fan Assembly
- HPE S5000-A5 VPN 2-Port 10GbE Module
- HPE S5000-A5 VPN 12-Port GbE Module

Networking Product Matrix (continued)

	Resource management				Performance monitoring				Integration and licensing			Configuration				Wireless			
	Discovery	Topology mapping	Monitoring	Inventory reports	Enhanced events and alarms	Automated tasks	Audit reports	Error and utilization reports	SOTT MobiControl integration	Additional node, user, or application licenses supported	Integration with existing NMS	Configuration backup and restore	Network-wide VLAN support	Group level firmware updates	Group level configuration	Third-party device support	Radio/WLAN discovery	WLAN security configuration	Radio/RF configuration
Management software																			
Aruba AirWave	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba AirWave	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba Central	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aruba Central	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

	Resource management				Performance monitoring				Integration and licensing			Configuration				Wireless			
	Discovery	Topology mapping	Monitoring	Inventory reports	Enhanced events and alarms	Scheduled tasks	Audit reports	Error and utilization reports	External database support	Additional node, user, or application licenses supported	HPE Network Node Manager Windows integration	Configuration backup and restore	Network-wide VLAN support	Bulk agent updates	Bulk configuration	Extensible for third-party device support	Radio/WLAN discovery	WLAN security configuration	Radio/RF configuration
Management software																			
HPE Intelligent Management Center (IMC)																			
HPE IMC Basic Software Platform	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE IMC Standard Software Platform	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE IMC Enterprise Software Platform	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE IMC Network Traffic Analyzer Software			•	•	•	•	•	•	• ³	•		•				•			
HPE IMC User Authentication Management Software		•	•	•	•	•	•	•	• ³	•						•			
HPE IMC User Behavior Auditor Software Module			•						• ³	•									
HPE IMC QoS Manager Software			•	•	•	•	•	•	• ³						•	•			
HPE IMC Endpoint Admission Defense Software			•	•	•	•	•	•	• ³	•									
HPE IMC Wireless Services Manager Software	•	•	•	•	•	•	•	•	• ³	•					•		•	•	•
HPE IMC MPLS VPN Software		•	•	•	•	•	•	•	• ⁴	•			•	•	•				
HPE IMC Voice Services Manager Software		•	•	•	•	•	•	•	• ⁴	•		•							
HPE IMC IPsec/VPN Manager Software	•		•	•	•	•	•	•	• ³	•		•		•	•				
HPE IMC Service Operation Management Software				•	•	•	•	•	• ¹										
HPE IMC Branch Intelligent Management Software	•		•	•	•	•	•	•	• ³	•		•		•	•	•			
HPE IMC Intelligent Analysis Reporter Software																			
HPE IMC Service Health Manager Software		•	•		•	•	•	•	•										
HPE IMC TACACS+ Authentication Manager Software					•	•	•	•	•	•					• ⁵				
HPE IMC Application Performance Manager Software	•	•	•	•	•	•	•	•	•										
HPE IMC Extended API Software																			
HPE IMC Virtual Application Network Manager Software			•						•							•			
HPE IMC Remote Site Manager Software	•	•	•	•	•	•	•	•	•	• ⁶		•	•	•	•				
HPE IMC Smart Connect with Wireless Service Manager Virtual Appliance Software	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE IMC Virtualization Monitor Software			• ⁶	• ⁶	• ⁸	• ⁸	• ⁸		• ³	• ⁸			• ⁸			• ⁶			
HPE IMC Virtual Application Networks Software-defined Networking Manager Software		•	•	•	•				•	•									
HPE IMC VAN Resource Automation Manager Software		•	•	•	•				•				•		•				
HPE IMC Unified Communications Health Manager Software	•	•	•	•	•				•	•			•		•				

³ IMC can support either Microsoft SQL, MySQL, or Oracle Database, depending on the operating system in use.

⁴ IMC can support either Microsoft SQL or Oracle Database, depending on the operating system in use.

⁵ TAM device support is vendor agnostic and supports devices that utilize the TACACS+ protocol.

⁶ RMS can manage up to 1,000 devices using node count licenses from the main IMC server.

⁷ With IMC Basic WLAN Manager Software Platform

⁸ Dependent on NTA

Networking Transceiver Matrix

Data Center	SKU	FlexFabric 12900	FlexFabric 12500	FlexFabric 11900	FlexFabric 7900	FlexFabric 5930	FlexFabric 5920	FlexFabric 5900CP	FlexFabric 5900	FlexFabric 5830	FlexFabric 5820	FlexFabric 5800	FlexFabric 5700	Altoline 6960	Altoline 6940	Altoline 6920	6100 Blade	Virtual Connect
Transceivers																		
HPE X114 100M SFP LC FX Transceiver	JF833A		•															
HPE X110 100M SFP LC FX Transceiver	JD102B									•		•						
HPE X110 100M SFP LC LH40 Transceiver	JD090A									•		•						
HPE X110 100M SFP LC LH80 Transceiver	JD091A									•		•						
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A											•						
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A											•						
HPE X120 100M/1G SFP LC LX Transceiver	JF832A		•															
HPE X110 100M SFP LC LX Transceiver	JD120B									•		•						
HPE X125 1G SFP RJ45 T Transceiver	JD089B	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X120 1G SFP LC SX Transceiver	JD118B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X120 1G SFP LC LX Transceiver	JD119B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X124 1G SFP LC LH40 1310nm Transceiver	JD061A	•	•	•	•	•	•	•	•	•	•	•	•					•
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X125 1G SFP LC LH70 Transceiver	JD063B	•	•	•	•	•	•	•	•	•	•	•	•					•
HPE X170 1G SFP LC LH70 1550 Transceiver	JD109A	•	•	•	•					•								
HPE X170 1G SFP LC LH70 1570 Transceiver	JD110A	•	•	•	•					•								
HPE X170 1G SFP LC LH70 1590 Transceiver	JD111A	•	•	•	•					•								
HPE X170 1G SFP LC LH70 1610 Transceiver	JD112A	•	•	•	•					•								
HPE X170 1G SFP LC LH70 1470 Transceiver	JD113A		•	•						•								
HPE X170 1G SFP LC LH70 1490 Transceiver	JD114A		•	•						•								
HPE X170 1G SFP LC LH70 1510 Transceiver	JD115A	•	•	•	•					•								
HPE X170 1G SFP LC LH70 1530 Transceiver	JD116A		•	•						•								
HPE X120 1G SFP LC LH100 Transceiver	JD103A	•	•	•	•	•												
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B	•	•	•	•		•	•	•				•					
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B	•	•	•	•		•	•	•				•					
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A	•	•		•	•								•	•	•		
HPE X132 10G SFP+ LC SR Transceiver	J9150A																	•
HPE X130 SFP+ LC SR Transceiver	JD092B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X132 10G SFP+ LC LRM Transceiver	J9152A																	•
HPE X130 SFP+ LC LRM Transceiver	JD093B	•	•	•		•	•	•	•	•	•	•						•
HPE X132 10G SFP+ LC LR Transceiver	J9151A																	•
HPE X130 SFP+ LC LR Transceiver	JD094B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A	•	•	•	•	•	•	•	•	•	•	•						•
HPE X130 SC LR XFP Transceiver	JD108B					•												
HPE X130 SC ZR XFP Transceiver	JD107A					•												
HPE X140 40G CFP LC LR4 10km SM Transceiver	JC857A					•												
HPE X140 40G QSFP+ LC LR4 SM XCVR	JG661A	•	•	•	•	•		•	•				•	•	•	•		
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A	•	•	•	•	•		•	•				•	•	•	•		
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B	•	•	•	•	•		•	•				•	•	•	•	•	
HPE X240 40G-CSR4 QSFP MPO 300M Transceiver	JG709A	•	•	•	•	•		•					•	•	•	•		
HPE X150 100G CFP2 LC LR4 10km SM Transceiver	JH289A	•																
HPE X150 100G CFP LC LR4 10km SM Transceiver	JG829A	•	•	•														
HPE X150 100G CXP MPO SR 100m Multimode Transceiver	JG881A	•			•													

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

	SKU	FlexFabric 12900	FlexFabric 12500	FlexFabric 11900	FlexFabric 7900	FlexFabric 5930	FlexFabric 5920	FlexFabric 5900CP	FlexFabric 5900	FlexFabric 5830	FlexFabric 5820	FlexFabric 5800	FlexFabric 5700	Altoline 6960	Altoline 6940	Altoline 6920	6100 Blade	Virtual Connect
Data Center (continued)																		
Cables																		
HPE X242 SFP+ to SFP+ 1m Direct Attach Cable	J9281B																	•
HPE X242 SFP+ to SFP+ 3m Direct Attach Cable	J9283B																	•
HPE X242 SFP+ to SFP+ 7m Direct Attach Cable	J9285B																	•
HPE X242 SFP+ to SFP+ 10m Direct Attach Cable	J9286B																	•
HPE X242 SFP+ to SFP+15m Direct Attach Cable	J9287B																	•
HPE X244 XFP SFP+ 1m Direct Attach Cable	J9300A																	•
HPE X244 XFP SFP+ 3m Direct Attach Cable	J9301A																	•
HPE X244 XFP SFP+ 5m Direct Attach Cable	J9302A																	•
HPE X240 SFP+ to SFP+ 0.65 m Direct Attach Cable	JD095C	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X240 SFP+ to SFP+ 1.2 m Direct Attach Cable	JD096C	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X240 SFP+ to SFP+ 3 m Direct Attach Cable	JD097C	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
HPE X240 SFP+ to SFP+ 5m DAC Cable	JG081C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X240 10G SFP+ 7m Direct Attach Cable	JC784C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HPE X240 40G QSFP+ to 4x10G SFP+ 1m DAC Cable	JG329A	•		•	•	•		•	•		•		•	•	•	•	•	•
HPE X240 40G QSFP+ to 4x10G SFP+ 3m DAC Cable	JG330A	•		•	•	•		•	•		•		•	•	•	•	•	•
HPE X240 40G QSFP+ to 4x10G SFP+ 5m DAC Cable	JG331A	•		•	•	•		•	•		•		•	•	•	•	•	•
HPE X240 40G QSFP+ to QSFP+ 1m DAC Cable	JG326A	•		•	•			•	•			•	•	•	•	•	•	•
HPE X240 40G QSFP+ to QSFP+ 3m DAC Cable	JG327A	•		•	•	•		•	•			•	•	•	•	•	•	•
HPE X240 40G QSFP+ to QSFP+ 5m DAC Cable	JG328A	•		•	•	•		•	•			•	•	•	•	•	•	•
HPE X2A0 100G CXP To CXP 10m Active Optical Cable	JG882A	•			•													
HPE X2A0 100G CXP To CXP 30m Active Optical Cable	JG883A	•			•													

	SKU	FlexNetwork 10500	FlexNetwork 7500	Aruba 5400R zl2	FlexNetwork 5510 HI	FlexNetwork 5500 HI	FlexNetwork 5500 EI	Aruba 3810	Aruba 3800	Aruba 3500 yl	Aruba 2920	Aruba 2915-8G-PoE	FlexNetwork 5130 HI	FlexNetwork 5130 EI	Aruba 2530	FlexNetwork 3600 EI	FlexNetwork 3600 SI	Aruba 2620	Aruba 2615-8-PoE	FlexNetwork 3100 EI	FlexNetwork 3100 SI
Campus																					
Transceivers																					
HPE X111 100M SFP LC FX Transceiver	J9054C			•			•		•	•	•			•				•	•		
HPE X110 100M SFP LC FX Transceiver	JD102B	•			•	•	•							•		•				•	•
HPE X110 100M SFP LC LH40 Transceiver	JD090A	•	•		•	•	•							•		•					
HPE X110 100M SFP LC LH80 Transceiver	JD091A	•	•		•	•	•							•		•					
HPE X112 100M SFP LC BX-U Transceiver	J9100B			•					•	•	•				•				•	•	
HPE X112 100M SFP LC BX-D Transceiver	J9099B			•					•	•	•				•				•	•	
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A	•	•		•									•		•				•	•
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A	•	•		•									•		•				•	•
HPE X110 100M SFP LC LX Transceiver	JD120B	•	•		•	•	•							•		•				•	•
HPE X121 1G SFP RJ45 T Transceiver	J8177C			•				•	•						•				•		
HPE X125 1G SFP RJ45 T Transceiver	JD089B	•	•		•	•	•						•	•		•	•			•	
HPE X121 1G SFP LC SX Transceiver	J4858C			•				•	•						•				•	•	
HPE X120 1G SFP LC SX Transceiver	JD118B	•	•		•	•	•							•		•	•			•	•
HPE X121 1G SFP LC LX Transceiver	J4859C			•				•	•						•				•	•	
HPE X120 1G SFP LC LX Transceiver	JD119B	•	•		•	•	•							•		•	•			•	•
HPE X121 1G SFP LC LH Transceiver	J4860C			•				•	•						•				•	•	
HPE X124 1G SFP LC LH40 1310nm Transceiver	JD061A	•	•		•	•	•							•	•		•	•		•	

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

Campus (continued)	SKU	FlexNetwork 10500	FlexNetwork 7500	Aruba 5400R z12	FlexNetwork 5510 HI	FlexNetwork 5500 HI	FlexNetwork 5500 EI	Aruba 3810	Aruba 3800	Aruba 3500 Y1	Aruba 2920	Aruba 2915-8G-PoE	FlexNetwork 5130 HI	FlexNetwork 5130 EI	Aruba 2530	FlexNetwork 3600 EI	FlexNetwork 3600 SI	Aruba 2620	Aruba 2615-8-PoE	FlexNetwork 3100 EI	FlexNetwork 3100 SI
Transceivers (continued)																					
HPE X120 622M SFP LC LH 40km 1310 Transceiver	JF830A																				
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A	•	•		•	•	•						•	•		•	•				•
HPE X125 1G SFP LC LH70 Transceiver	JD063B	•	•		•	•	•						•	•		•	•				•
HPE X170 1G SFP LC LH70 1550 Transceiver	JD109A	•	•																		
HPE X170 1G SFP LC LH70 1570 Transceiver	JD110A	•	•																		
HPE X170 1G SFP LC LH70 1590 Transceiver	JD111A	•	•																		
HPE X170 1G SFP LC LH70 1610 Transceiver	JD112A	•	•																		
HPE X170 1G SFP LC LH70 1470 Transceiver	JD113A	•																			
HPE X170 1G SFP LC LH70 1490 Transceiver	JD114A	•																			
HPE X170 1G SFP LC LH70 1510 Transceiver	JD115A	•	•																		
HPE X170 1G SFP LC LH70 1530 Transceiver	JD116A	•																			
HPE X120 1G SFP LC LH100 Transceiver	JD103A	•	•		•								•	•							
HPE X122 1G SFP LC BX-D Transceiver	J9142B			•				•	•	•	•	•			•			•	•		
HPE X122 1G SFP LC BX-U Transceiver	J9143B			•				•	•	•	•	•			•			•	•		
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B	•	•		•	•	•						•	•		•	•			•	•
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B	•	•		•	•	•						•	•		•	•			•	•
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A				•	•							•								
HPE X132 10G SFP+ LC SR Transceiver	J9150A			•				•	•	•	•				•						
HPE X130 SFP+ LC SR Transceiver	JD092B	•	•		•	•	•						•	•							
HPE X132 10G SFP+ LC LRM Transceiver	J9152A			•				•	•	•	•				•						
HPE X130 SFP+ LC LRM Transceiver	JD093B	•	•		•	•	•						•								
HPE X132 10G SFP+ LC LR Transceiver	J9151A			•				•	•	•	•				•						
HPE X130 SFP+ LC LR Transceiver	JD094B	•	•		•	•	•						•	•							
HPE X132 10G SFP+ LC ER Transceiver	J9153A			•				•	•	•	•				•						
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A	•	•		•		•						•								
HPE X131 10G X2 CX4 Transceiver	J8440C			•						•											
HPE X131 10G X2 SC LRM Transceiver	J9144A			•						•											
HPE X131 10G X2 SC SR Transceiver	J8436A			•						•											
HPE X131 10G X2 SC LR Transceiver	J8437A			•						•											
HPE X131 10G X2 SC ER Transceiver	J8438A			•						•											
HPE X130 LC SR XFP Transceiver	JD117B	•	•			•	•														
HPE X130 SC LR XFP Transceiver	JD108B	•	•			•	•														
HPE X135 LC ER XFP Transceiver	JD121A	•	•			•	•														
HPE X130 SC ZR XFP Transceiver	JD107A	•	•			•															
HPE X180 10G XFP LC LH 80km 1538.98nm DWDM Transceiver	JG226A			•																	
HPE X180 10G XFP LC LH 80km 1539.77nm DWDM Transceiver	JG227A			•																	
HPE X180 10G XFP LC LH 80km 1542.94nm DWDM Transceiver	JG230A			•																	
HPE X140 40G QSFP+ LC LR4 SM XCVR	JG661A			•	•																
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A			•																	
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A			•				•													
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B			•	•																
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A			•				•													
HPE X142 40G QSFP+ MPO eSR4 300M XCVR	JH233A			•				•													
HPE X240 40G-CSR4 QSFP MPO 300M Transceiver	JG709A			•	•																

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

Campus (continued)	SKU	FlexNetwork 10500	FlexNetwork 7500	Aruba 5400R z12	FlexNetwork 5510 HI	FlexNetwork 5500 HI	FlexNetwork 5500 EI	Aruba 3810	Aruba 3800	Aruba 3500 Yl	Aruba 2920	Aruba 2915-8G-PoE	FlexNetwork 5130 HI	FlexNetwork 5130 EI	Aruba 2530	FlexNetwork 3600 EI	FlexNetwork 3600 SI	Aruba 2620	Aruba 2615-8-PoE	FlexNetwork 3100 EI	FlexNetwork 3100 SI
Cables																					
HPE X230 Local Connect 50cm CX4 Cable	JD363B						•														
HPE X230 Local Connect 100cm CX4 Cable	JD364B						•														
HPE X230 CX4 to CX4 3m Cable	JD365A						•														
HPE X242 SFP+ to SFP+ 1m Direct Attach Cable	J9281B			•				•	•	•	•				•						
HPE X242 SFP+ to SFP+ 3m Direct Attach Cable	J9283B			•				•	•	•	•				•						
HPE X242 SFP+ to SFP+ 7m Direct Attach Cable	J9285B			•				•	•	•	•				•						
HPE X242 SFP+ to SFP+ 10m Direct Attach Cable	J9286B			•				•	•	•	•				•						
HPE X242 SFP+ to SFP+15m Direct Attach Cable	J9287B			•				•	•	•	•				•						
HPE X244 XFP SFP+ 1m Direct Attach Cable	J9300A			•				•	•	•	•				•						
HPE X244 XFP SFP+ 3m Direct Attach Cable	J9301A			•				•	•	•	•				•						
HPE X244 XFP SFP+ 5m Direct Attach Cable	J9302A			•				•	•	•	•				•						
HPE X240 SFP+ to SFP+ 0.65 m Direct Attach Cable	JD095C	•	•		•	•	•						•	•							
HPE X240 SFP+ to SFP+ 1.2 m Direct Attach Cable	JD096C	•	•		•	•	•						•	•							
HPE X240 SFP+ to SFP+ 3 m Direct Attach Cable	JD097C	•	•		•	•	•						•	•							
HPE X240 SFP+ to SFP+ 5m DAC Cable	JG081C	•	•		•	•	•							•							
HPE X240 10G SFP+ 7m Direct Attach Cable	JC784C	•				•	•														
HPE X240 40G QSFP+ to 4x10G SFP+ 1m DAC Cable	JG329A			•	•																
HPE X240 40G QSFP+ to 4x10G SFP+ 3m DAC Cable	JG330A			•	•																
HPE X240 40G QSFP+ to 4x10G SFP+ 5m DAC Cable	JG331A			•	•																
HPE X240 40G QSFP+ to QSFP+ 1m DAC Cable	JG326A			•	•																
HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	JH234A			•				•													
HPE X240 40G QSFP+ to QSFP+ 3m DAC Cable	JG327A			•	•																
HPE X242 40G QSFP+ to QSFP+ 3m DAC Cable	JH235A			•				•													
HPE X240 40G QSFP+ to QSFP+ 5m DAC Cable	JG328A			•	•																
HPE X242 40G QSFP+ to QSFP+ 5m DAC Cable	JH236A			•				•													
Routers																					
Transceivers	SKU	FlexNetwork 8800	FlexNetwork HSR6800	FlexNetwork HSR6600	FlexNetwork 6600	FlexNetwork MSR4000	FlexNetwork MSR3000	FlexNetwork MSR2000	FlexNetwork MSR1000	MSR50	MSR30	MSR20	MSR20-1x	FlexNetwork MSR95x	FlexNetwork MSR93x						
HPE X110 100M SFP LC FX Transceiver	JD102B	•	•	•	•	•	•	•	•	•	•	•	•								
HPE X110 100M SFP LC LH40 Transceiver	JD090A	•	•	•	•	•	•	•	•	•	•	•	•								
HPE X110 100M SFP LC LH80 Transceiver	JD091A	•	•	•	•	•	•	•	•	•	•	•	•								
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A		•		•																
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A		•		•																
HPE X120 100M/1G SFP LC LX Transceiver	JF832A		•																		
HPE X110 100M SFP LC LX Transceiver	JD120B	•	•	•	•	•	•	•	•	•	•	•	•								
HPE X121 1G SFP RJ45 T Transceiver	J8177C														•						
HPE X125 1G SFP RJ45 T Transceiver	JD089B	•	•	•	•	•	•	•	•	•	•	•	•		•						
HPE X121 1G SFP LC SX Transceiver	J4858C														•						
HPE X120 1G SFP LC SX Transceiver	JD118B		•	•	•	•	•	•	•	•	•	•	•		•						
HPE X121 1G SFP LC LX Transceiver	J4859C														•						
HPE X120 1G SFP LC LX Transceiver	JD119B		•	•	•	•	•	•	•	•	•	•	•		•						
HPE X120 622M SFP LC LX 15km Transceiver	JF829A	•	•	•	•																

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

	SKU	FlexNetwork 8800	FlexNetwork HSR6800	FlexNetwork HSR6600	FlexNetwork 6600	FlexNetwork MSR4000	FlexNetwork MSR3000	FlexNetwork MSR2000	FlexNetwork MSR1000	MSR50	MSR30	MSR20	MSR20-1x	FlexNetwork MSR95x	FlexNetwork MSR95x
Routers (continued)															
Transceivers (continued)															
HPE X121 1G SFP LC LH Transceiver	J4860C														
HPE X124 1G SFP LC LH40 1310nm Transceiver	JD061A	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X120 622M SFP LC LH 40km 1310 Transceiver	JF830A	•	•	•	•										
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X120 622M SFP LC LH 80km 1550 Transceiver	JF831A	•	•	•	•										
HPE X125 1G SFP LC LH70 Transceiver	JD063B	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X170 1G SFP LC LH70 1550 Transceiver	JD109A	•													
HPE X170 1G SFP LC LH70 1570 Transceiver	JD110A	•													
HPE X170 1G SFP LC LH70 1590 Transceiver	JD111A	•													
HPE X170 1G SFP LC LH70 1610 Transceiver	JD112A	•													
HPE X170 1G SFP LC LH70 1470 Transceiver	JD113A	•													
HPE X170 1G SFP LC LH70 1490 Transceiver	JD114A	•													
HPE X170 1G SFP LC LH70 1510 Transceiver	JD115A	•													
HPE X170 1G SFP LC LH70 1530 Transceiver	JD116A	•													
HPE X120 1G SFP LC LH100 Transceiver	JD103A	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X122 1G SFP LC BX-D Transceiver	J9142B													•	
HPE X122 1G SFP LC BX-U Transceiver	J9143B													•	
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B	•	•	•	•	•	•	•	•	•	•	•	•	•	
HPE X160 2.5G SFP LC 2km Transceiver	JD084A	•	•	•											
HPE X160 2.5G SFP LC 15km Transceiver	JD085A	•	•	•											
HPE X160 2.5G SFP LC 40km Transceiver	JD086A	•	•	•											
HPE X160 2.5G SFP LC 80km Transceiver	JD087A	•	•	•											
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A		•												
HPE X130 SFP+ LC SR Transceiver	JD092B		•	•	•	•									
HPE X130 SFP+ LC LRM Transceiver	JD093B		•			•									
HPE X130 SFP+ LC LR Transceiver	JD094B		•	•	•	•									
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A		•	•	•	•									
HPE X130 LC SR XFP Transceiver	JD117B	•	•	•	•										
HPE X135 10G XFP LC LR Transceiver	JD088A	•													
HPE X130 SC LR XFP Transceiver	JD108B	•	•	•	•										
HPE X135 LC ER XFP Transceiver	JD121A	•	•	•	•										
HPE X130 SC ZR XFP Transceiver	JD107A	•													
Cables															
HPE X240 SFP+ to SFP+ 0.65 m Direct Attach Cable	JD095C		•			•									
HPE X240 SFP+ to SFP+ 1.2 m Direct Attach Cable	JD096C		•			•									
HPE X240 SFP+ to SFP+ 3 m Direct Attach Cable	JD097C		•			•									
HPE X240 SFP+ to SFP+ 5m DAC Cable	JG081C		•			•									
HPE X240 10G SFP+ 7m Direct Attach Cable	JC784C		•												

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

	SKU	FlexNetwork 8800	FlexNetwork HSR6800	FlexNetwork HSR6600	FlexNetwork 6600	FlexNetwork MSR4000	FlexNetwork MSR3000	FlexNetwork MSR2000	FlexNetwork MSR1000	MSR50	MSR30	MSR20	MSR20-1x	FlexNetwork MSR95x	FlexNetwork MSR95x
Routers (continued)															
Router Cables															
HPE X260 E1 BNC 75 ohm 3m Router Cable	JC127A	•													
HPE X260 E1 RJ45 120 ohm 2m Router Cable	JC156 A	•				•	•		•						
HPE X260 E1 RJ45 120 ohm 3m Router Cable	JC126A	•													
HPE X260 E1 RJ45 120 ohm 15m Router Cable	JC151A	•	•			•	•		•						
HPE X260 E1 RJ45 120 ohm 30m Router Cable	JC152A	•	•			•	•		•						
HPE X260 E1 BNC Extend 10m Router Cable	JC153A	•													
HPE X260 E1 BNC Extend 15m Router Cable	JC154A	•													
HPE X260 E1 BNC Extend 20m Router Cable	JC155A	•													
HPE X260 E1 RJ45 BNC 75-120 ohm Conversion Router Cable	JD511A	•		•	•	•		•	•	•	•				
HPE X260 T1 RJ45 100 ohm 3m Router Cable	JC128A	•													
HPE X260 T1 Router Cable	JD518A	•				•	•	•	•	•	•	•	•		
HPE X500 T1 Voice Router Cable	JD535A	•						•		•	•	•	•		
HPE FlexNetwork X200 V.24 DTE 3m Serial Port Cable	JD519A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X200 V.24 DCE 3m Serial Port Cable	JD521A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X200 V.35 DTE 3m Serial Port Cable	JD523A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X200 X.21 DTE 3m Serial Port Cable	JD527A				•		•	•		•	•	•	•		
HPE FlexNetwork X200 V.35 DCE 3m Serial Port Cable	JD525A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X200 X.21 DCE 3m Serial Port Cable	JD529A			•	•		•	•		•	•	•	•		
HPE FlexNetwork X260 RS449 3m DTE Serial Port Cable	JF825A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X260 RS449 3m DCE Serial Port Cable	JF826A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X260 RS530 3m DTE Serial Port Cable	JF827A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X260 RS530 3m DCE Serial Port Cable	JF828A		•	•	•	•	•	•	•	•	•	•	•		•
HPE FlexNetwork X260 Auxiliary Router Cable	JD508A					•		•		•	•	•	•		
HPE FlexNetwork X260 E1 RJ45 3m Router Cable	JD509A					•	•		•	•	•	•	•		
HPE FlexNetwork X260 E1 RJ45 20m Router Cable	JD517A					•	•		•	•	•	•	•		
HPE FlexNetwork X260 E1 4-Port IMA Router Cable	JD638A									•	•		•		
HPE FlexNetwork X260 E1 (2) BNC 75 ohm 3m Router Cable	JD175A					•	•	•	•	•	•	•	•		
HPE FlexNetwork X260 E1 BNC 20m Router Cable	JD514A					•	•	•	•	•	•	•	•		
HPE FlexNetwork X260 E1 2 BNC 75 ohm 40m Router Cable	JD516A					•	•	•	•	•	•	•	•		
HPE FlexNetwork X260 8E1 BNC 75 ohm 3m Router Cable	JD512A		•	•	•	•				•	•				
HPE CAB-75ohm 8E1-3m-BNC-IMA	JD927A									•	•				
HPE FlexNetwork X260 T3/E3 Router Cable	JD531A		•		•	•	•			•	•		•		
HPE FlexNetwork X260 E3-30 E3/T3 Router Cable	JD533A		•		•	•	•			•	•		•		
HPE FlexNetwork X260 E1 RJ45 to 2xBNC 75ohm 3m Router Cable	JH294A					•	•		•						
HPE FlexNetwork X260 2E1 BNC 3m Router Cable	JD643A						•	•	•	•	•	•	•		
HPE FlexNetwork X260 8T1 RJ45 3m Router Cable	JD639A		•							•	•				
HPE FlexNetwork X260 SIC-8AS RJ45 0.28m Router Cable	JD642A							•	•	•	•	•	•		
HPE FlexNetwork X260 mini D-28 to 4-RJ45 0.3m Router Cable	JG263A							•	•	•	•	•	•		
HPE A-MSR 50 pin D-sub Male to 24 x RJ-11 Plug 15m Router Cable	JG318A									•					
HPE FlexNetwork X200 Transit Plug D25F MP8(S) Single Cable	JD636A									•	•		•		
HPE FlexNetwork X200 Transit RJ45 0.5m Single Cable	JD641A									•	•		•		

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

Networking Transceiver Matrix (continued)

SMB	SKU	OfficeConnect 1950	OfficeConnect 1920	OfficeConnect 1910	OfficeConnect 1820	OfficeConnect 1420	OfficeConnect 1410
Transceivers							
HPE X111 100M SFP LC FX Transceiver	J9054C				•		•
HPE X121 1G SFP RJ45 T Transceiver	J8177C	•	•	•	•	•	
HPE X125 1G SFP RJ45 T Transceiver	JD089B		•	•		•	
HPE X121 1G SFP LC SX Transceiver	J4858C	•	•	•	•	•	•
HPE X120 1G SFP LC SX Transceiver	JD118B		•	•		•	
HPE X121 1G SFP LC LX Transceiver	J4859C	•	•	•	•	•	•
HPE X120 1G SFP LC LX Transceiver	JD119B		•	•		•	
HPE X132 10G SFP+ LC SR Transceiver	J9150A	•				•	
HPE X130 SFP+ LC SR Transceiver	JD092B					•	
HPE X132 10G SFP+ LC LR Transceiver	J9151A	•					
HPE X130 SFP+ LC LR Transceiver	JD094B					•	
Cables							
HPE X242 SFP+ to SFP+ 1m Direct Attach Cable	J9281B					•	
HPE X242 SFP+ to SFP+ 3m Direct Attach Cable	J9283B					•	

Note: The matrix indicates transceivers and cables supported by the series. See [Quickspecs](#) for model specific support

HPE Networking Warranty

HPE Networking Warranty

Your HPE networking products will include industry-leading warranty and support with the product purchase. Most HPE switches and WLAN products include the HPE limited lifetime warranty (for as long as the original end user owns the product, refer to the software license and hardware warranty statements at [hpe.com/networking/warranty](https://www.hpe.com/networking/warranty) for details). All warranties feature advance replacement (available in most countries)* with coverage for the entire product, including fans and power supplies, for the entire warranty period. Visit [hpe.com/networking/warranty](https://www.hpe.com/networking/warranty) to view the HPE Hardware Warranty Statement with terms and conditions, and go to [hpe.com/networking/warrantysummary](https://www.hpe.com/networking/warrantysummary) to see the warranty and support included with each of your products.

Your warranty, though, is just one component of a rich, multi-layered support structure. To help make our networking products even easier to implement, use, and maintain, we support most of them via many avenues: self-help tools available 24x7 on the Web, telephone support, email support and electronic case submission, and periodic software releases and updates. Refer to [hpe.com/networking/support](https://www.hpe.com/networking/support) for details on these support features, and visit [hpe.com/networking/contact-support](https://www.hpe.com/networking/contact-support) for details on how to contact HPE for technical support.

The Aruba Instant Access Point Series is covered by the Aruba Limited lifetime warranty. See [arubanetworks.com/support-services/product-warranties/](https://www.arubanetworks.com/support-services/product-warranties/) for details.

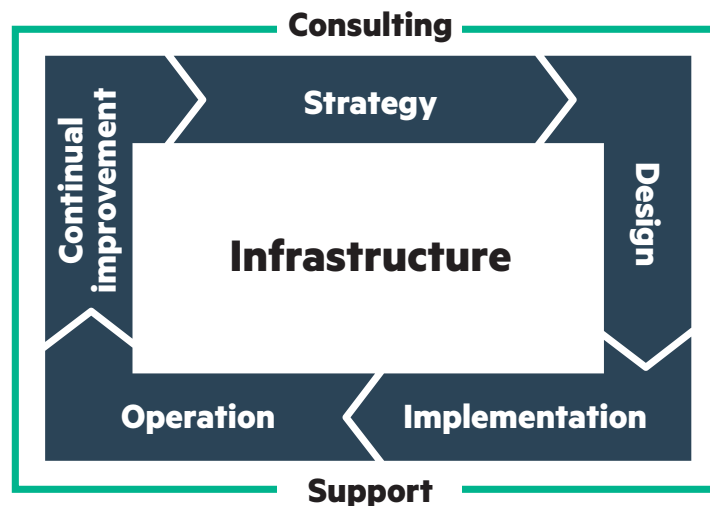
Services for HPE networking products

HPE Network Services

Connecting the enterprise isn't just about routing, switching, and wireless products. It's really about the network enabling the business and market trends such as cloud computing, Big Data, and mobility. It's about creating an agile network that can mirror the instant scale-up and scale-down capabilities of compute and store environments. This state of responsive scalability can be defined as *elastic connectivity*. By delivering elastic connectivity, you can be your most productive through universal access to people, applications, and data. In addition, your business can enhance the delivery of critical business services by using private, public, or hybrid models. Such challenges are why savvy networking professionals complement their networking investments with services from HPE. By relying on our experts for consulting, implementation, and support services, you can plan, implement, and operate your network infrastructure more easily and effectively. You gain solutions to solve your immediate business problems and have the flexibility to respond to your future needs.

HPE Network Strategy and Planning Services

These services define the vision, current state, readiness, and pragmatic next steps for the future state of your network. The Connectivity Transformation Experience Workshop is a highly interactive, HPE facilitated one-day session between your key stakeholders and senior HPE consultants. This structured discussion takes a fact-based, analytical approach to help achieve alignment of your vision, identify the current state of your network, and describe your network's future state and what your specific transformation agenda should be. Our consultants can leverage HPE reference architectures to create an open standards-based technology deployment blueprint. And if you're undergoing a data center consolidation or deploying new technologies, we can collect and analyze detailed network data, then supply you with an assessment of your readiness, as well as recommendations and a roadmap.



* Response times are based on local standard business days and working hours. Response time begins once HPE has completed confirming the product failure and identifying the replacement part. Response time is based on commercially reasonable effort and subject to a daily shipment cutoff time. In some countries and regions and under certain supplier constraints, response time may vary. If your location is outside the customary service zone, response time may be longer. Contact your local HPE service organization for response time availability in your area.

Services for HPE networking products (continued)

HPE Cloud-Ready Networking Services

These services help you prepare your network to meet the demands of cloud computing. From visibility to control, from acceleration to protection, our experts work with you to leverage your existing investments as you move to cloud-based application delivery. You'll realize the full value of your cloud initiative while securing your enterprise data and applications. Our end-to-end approach is aligned with both your short- and long-term goals. You can leverage the HPE reference architecture for a network blueprint tailored to your unique needs and use our proven methodology to transform your data center network to one that is cloud ready. We can help accelerate your project and reduce implementation risks, thanks to validated designs and extensive project experience.

HPE Cloud-Ready Networking Services help prepare your network to meet the performance demands of cloud computing. This holistic, end-to-end approach builds a solid foundation for your cloud initiative, encompassing four elements critical to your success:

- **Analyze:** know before you go
- **Optimize:** enhance what you have
- **Protect:** build a secure cloud
- **Continuously improve:** be ready for change

HPE FlexNetwork Services

These services help you evolve your network to one that leverages the advantages and efficiencies of an end-to-end open standards environment. You can begin with an interactive strategy workshop that focuses on helping your organization to understand the design and financial benefits of transitioning your environment to a multivendor approach. Our consultants can collaborate with you to analyze and validate your current and future IT architecture needs and create a comprehensive modular design. Plus, we also offer a full suite of WLAN services, along with flexible time and expense consulting.

HPE SDN Services

Software-defined networking (SDN) is introducing capabilities that enable you to evolve your network from one with a traditional rigid architecture to one with an agile architecture based on network resource virtualization. HPE SDN Services help you plan for the best way to begin an SDN journey in your environment through full SDN deployment and the related changes that will impact people and processes.

HPE IPv6 Services

Enterprise businesses are now recognizing the inevitability and importance of IPv6 as a means of addressing pervasive connectivity. These businesses appreciate the fact that IPv6 represents the future of IP traffic and, if leveraged properly, can represent a means to market differentiation and business enablement. HPE's comprehensive suite of IPv6 services can help in all phases of your IPv6 journey, from planning and strategy through design, implementation, support, and education. We'll show you how to leverage your existing assets and take advantage of IPv6 technology without introducing risk to the rest of your IT environment. Our proven methodology provides a smooth transition and a deployment strategy that's aligned with your business strategy.

HPE Network Infrastructure Optimization Services

Universal access to people, applications, and data relies on an optimized network to deliver a positive user experience. HPE Network Infrastructure Optimization Services examine all aspects of the network environment for slowdowns, focusing especially on your suite of mission-critical business applications. These lifecycle services focus on the five optimization topology domains: inside the data center, DC to DC, WAN, campus LAN, and WLAN.

HPE Mobility Services

Founded on the principle of universal access to people, applications, and data, this HPE offering addresses universal access through a comprehensive suite of services including BYOD and client virtualization.

Connected People (Unified Communications)—responds to your users' most basic requirement to communicate and collaborate in real time, on any device, wherever they are leveraging the significant joint product developments and R&D from Microsoft and HP.

HPE Connected Workplace Services—focus on enabling access to your corporate and other applications securely from outside the office and on any device.

Services for HPE networking products (continued)

Connected Data—connect people to their data in ways that allow for maximum flexibility and ease of access.

Mobility and connectivity—enable universal access to people, applications, and data through a comprehensive suite of services that extend across the network infrastructure right out to mobile devices and applications. This includes end-to-end network and mobility management and security solutions.

Availability and support services

HPE Network Services brings together proven methodologies and best practices to keep your network functioning at its best. These services can substantially improve network availability and reduce downtime, leading to lower operational costs and an improved return on your IT investment.

Smart, streamlined support for greater business and IT agility

Is your network keeping up with your business?

More than ever, your network is a key enabler of business agility and operational efficiency. Investments in network infrastructure technology—such as IP voice, video, mobility, unified communications, virtualization, and cloud-based environments—make connections among people, processes and information faster, smarter, and more flexible than ever before.

As your business and IT operations grow increasingly mobile, connected, interactive, immediate, and fluid, your IT team faces unprecedented challenges as they strive to meet ever-higher performance and availability demands. Support is evolving to meet these challenges, as new processes and technologies offer opportunities to increase the productivity and efficiency of IT operations.

Support that keeps pace with your changing IT world

Drawing upon more than four decades of global networking leadership, HPE is in the vanguard of network support. HPE has developed innovative processes and tools that inject new economies into supporting your network, enabling you to:

- Improve network availability, enhance performance, and reduce downtime
- Strengthen your network to support advanced technology and mission-critical applications
- Simplify network management
- Increase return on investment in people, processes, and technologies

Support to help you succeed in a collaborative and fluid world

You need access to the right support as well as the right technologies to keep your network as dynamic and flexible as your business. HPE Network Support Services helps you succeed in this increasingly collaborative and fluid world.

HPE Network Support Services offers the advantages of a support partnership with the same trusted company that provides support for other aspects of your IT infrastructure. HPE certified network experts bring you their knowledge of heterogeneous environments as well as the latest tools and practices in integrated, automated management to streamline and enhance support.

With HPE, you can also simplify management of your complex, multivendor environment by reducing the number of service support vendors and consolidating support resources.

The HPE Network Support Services portfolio

The HPE Network Support Services portfolio offers you support that is:

Personalized

- Support when, where, and how you want it from certified HPE network experts

Proactive

- Tools and processes that prevent problems before they cause outages or performance degradation

Simplified

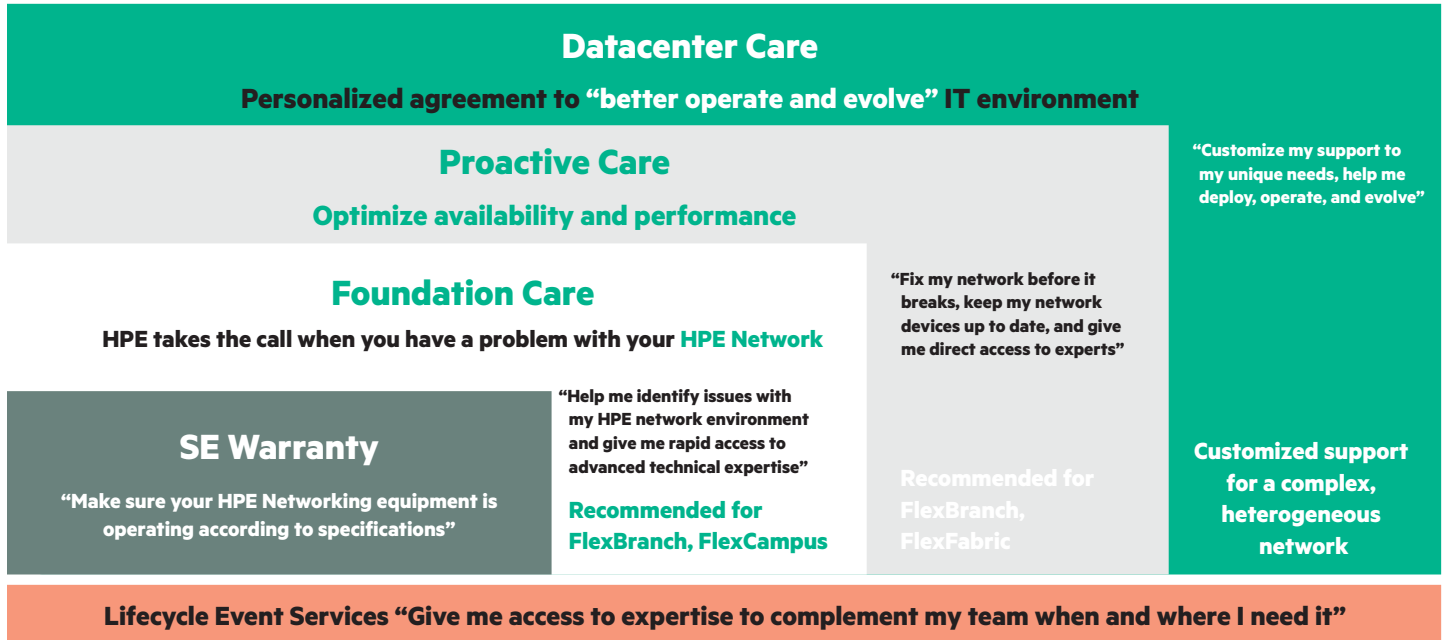
- Straightforward support choices and a single point of contact for all your support needs, including multivendor issues

The portfolio offers a choice of standard and customized support services. You can obtain device and software support, with service levels that vary from next-business day to 24x7 coverage, or integrate your device and software support.

Services for HPE networking products (continued)

HP Support Services

Personalized, proactive, simplified



The four featured services of HPE Network Support Services are:

- Foundation Care—extends your warranty and fixes network hardware and software problems.
- Proactive Care—helps optimize the availability and performance of your networking platform and keeps devices up to date.
- Datacenter Care—provides customized networking support, including business-critical multivendor environments.
- Lifecycle Event Services—is per-event support that provides access to HPE experts when and where you need them, to complement your in-house team.

HPE Foundation Care

Expand and enhance reactive support of your network hardware and software, and accelerate device repair and replacement with HPE Foundation Care. Choose from a variety of support service levels (next-business-day, 24x7, or 6-hour call-to-repair support) that are offered onsite or remotely for quick problem resolution. You can also extend your warranty coverage from one to five years.

HPE Foundation Care support includes:

- Network device support, with either repair or replacement by an onsite service technician or with a remote exchange option
- Software updates and firmware upgrades
- Standard business hours or 24x7 phone assistance for device-specific problem diagnosis and resolution

Foundation Care services reactive support provides options based on the criticality of the support equipment and coverage window requirements. For cases where hardware onsite service options are needed, the following options are available:

- HPE Foundation Care Call to Repair Service—24x7 coverage of hardware and software. Hardware is repaired within six hours of case opening, allowing staff to plan restoration activities. A two-hour callback is provided for software questions.
- HPE Foundation Care 24x7 Service—24x7 coverage of hardware and software; four-hour onsite response for hardware issues. A two-hour callback is provided for software questions.

Services for HPE networking products (continued)

- HPE Foundation Care Next Business Day Service—Monday-Friday (from 8 a.m. to 5 p.m.) coverage for hardware and software. Next-business-day response for hardware issues. A two-hour callback is provided for software questions.

There are also remote services options:

- HPE Foundation Care 4 hour Exchange Service—Exchange affected components within four hours of case opening and receive software support 24x7.
- HPE Foundation Care Next Business Day Exchange Service—Exchange affected components the next business day and receive software support 24x7.

HPE Comprehensive Defective Material Retention (CDMR)

HPE Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components. Before the actual replacement occurs, you must inform the authorized HPE support agent of your intention to keep the disk drive/data retentive component. You must also copy the information found on the label of the malfunctioning disk drive/component and provide it to HP. The malfunctioning part will then be replaced. You will be responsible for destroying and/or permanently removing the device from production.

HPE Defective Material Retention (DMR) and CDMR options help you:

- Reduce security risks with classified, proprietary, and confidential data
- Keep sensitive data compliant with privacy regulations
- Achieve a simpler, more cost-effective solution when you choose not to return a malfunctioning component

HPE Proactive Care

Gain the paybacks of prevention with this service that integrates reactive and proactive support to help you meet the challenges of managing converged, virtualized, and cloud-based environments built on industry-standard platforms. Offered at exceptional price points, this service enables you to solve complex problems before they impact your business, and helps reduce complexity and risk.

A range of hardware onsite (next-business-day, 4-hour response, or 6-hour call-to-repair) or hardware remote (next-business-day exchange or 4-hour exchange) support levels, along with 24x7 software support, are available to address the reactive support requirements of customer environments.

HPE Proactive Care leverages innovative HPE remote tools and support infrastructure investments to cost-effectively deliver superior proactive support.

You can access HPE experts online, by phone and, as needed, onsite for problem resolution and escalation call management with a single point of contact throughout the process. HPE experts also advise your team on firmware and software management and best practices.

For mission-critical environments, HPE provides services that include the proactive, onsite expertise of a dedicated account support manager and team, and priority access to reactive assistance through the HPE worldwide network of mission-critical response centers. Remote support tools monitor your environment for potential problems. Your dedicated HPE team evaluates your existing infrastructure against your availability needs, recommends ways to improve service levels, and helps you implement management changes to enhance control of processes and applications.

HPE Proactive Care Advanced

HPE Proactive Care Advanced is designed for customers who want assigned resources for technical assistance to help manage their HPE business-critical IT. Proactive Care Advanced builds on HPE Proactive Care in order to enhance the benefits from HPE IT investments, maintain stability, help achieve business and IT project objectives, reduce operational costs, and let your IT staff focus on business growth and innovation. Personalized technical and operational advice from an assigned, local Account Support Manager helps access best practices and expertise gleaned from HPE's broad support and technical experience. We help save time with 24x7 monitoring devices that are connected to HPE, plus developing personalized proactive reports with recommendations to help prevent problems, in your HPE IT infrastructure. Your assigned Account Support Manager has access to specialist technical skills for best practice advice and assistance to complement your IT skills, help maintain peak performance, and provide specialized projects.

Services for HPE networking products (continued)

HPE Datacenter Care

Ideal for business-critical environments, this custom-tailored form of environment support can help meet your most demanding service-level commitments. Reactive support and proactive services can extend from relationship management and enhanced call handling to full end-to-end support of a discrete network or an entire infrastructure with thousands of multivendor devices.

Once you've defined the specific services you need, you'll benefit from HPE tools and analytics, an assigned account team that knows your environment, and fast access to the right expertise for quicker problem resolution.

HPE Campus Care

This advanced support service is designed for customers deploying HPE Aruba Mobile-First networks. It builds upon the Datacenter Care model, adding network-specific proactive services to help customers manage the operational challenges associated with their mobile networks. Like Datacenter Care, HPE Campus Care offers customers an enhanced call experience with one number to call for their entire IT environment, with direct access to dedicated support experts.

HPE Campus Care adds tailored advice in areas such as wireless capacity planning, guest policy configuration, software-defined networking (SDN) validation, and network health and performance management. HPE Campus Care reduces knowledge gaps with best practices for managing critical wired and wireless networks.

HPE Lifecycle Event Services

Provides a comprehensive, customer-centric, end-to-end portfolio to help you through the technology lifecycle. You obtain the technical expertise you need, when, where, and how you require it on a project basis, either as a pre-packaged offer or as a statement-of-work engagement. These services are especially of value when you find it difficult to predict the type, nature, and frequency of resource requirements that you may have at any point in the lifecycle, from strategy and planning through design, deployment, ongoing operation, and optimization.

HPE can implement networking solutions with minimal impact on your organization's day-to-day operations. Subsequently, with the solution up and running, we can help operate and optimize your environment on an on-going basis. We can also support you further by drawing in appropriate Lifecycle Event Services as your IT system grows and evolves over time to meet changing business needs—complementing your IT team with expertise that will help you get the highest return on your investment.

HPE can deliver the services to meet their specific needs, whether it is a single discrete system or a complete data center in one or multiple geographies.

Custom Deployment Services

HPE offers custom SOW-based services for customers with requirements covering multiple deliverables and multiple products that cannot be managed with off-the-shelf offerings. These services include design, deployment, asset disposal and relocation to meet your specific needs—covering a broad product portfolio expertise and deep understanding of IT environments to help seamlessly manage any large customized solution.

Whether it is a network refresh or deployment of multiple new networking devices, HPE has the right skills and reach to get the job done in a timely and cost-effective manner.

Services for HPE networking products (continued)

HPE Education Services

Whether in the enterprise or the SMB, education can mean the difference between rapid employee turnover and poor performance on the one hand, and a professional, knowledgeable, and committed workforce on the other. At HPE, we understand the role of professional education in an organization's ability to operate efficiently and take advantage of new technologies. With HPE Education Services, we offer highly focused training aimed at specific products and technologies; and also offer a wide range of training paths leading to professional certifications in disciplines such as the cloud and networking.

Education Consulting is also available to tailor your training experience, to help you plan for what is needed with skills gap analysis, and re-enforce skills adoption with learning support tools and strategies. Our team is reported as a leader in technology training by IDC for four years running (IDC infographic 2037 Jan 2016) for networking.

HPE Training and Certification

HPE optimizes your skills to architect, implement, and operate modern networking solutions that help you pioneer IT transformations and accelerate business performance.

Innovative expertise

- Gain valuable expertise through the combination of business insight, technical knowledge, and live lab experiences, based on open standard technologies, multivendor interoperability, wired and wireless LAN integration, and a more agile networking architecture. Prepare yourself and your network for cloud, convergence, BYOD, and the implementation of SDN.

Flexible learning

- Choose the right learning options to suit your needs. HPE ExpertOne certification learning paths include HPE Press study-guide publications, instructor-led training with live remote labs, and/or self-paced online training.

Fast tracks

- Leverage your current certifications achieved through other IT vendors such as Cisco by taking advantage of fast track certification paths to more rapidly achieve HPE ExpertOne certification.

Comprehensive portfolio

- Expand your horizons by enhancing your networking skills and by also taking advantage of the entire HPE ExpertOne portfolio of offerings that span IT from cloud computing to client systems. HPE ExpertOne also provides program benefits such as personalized certification tracking and guidance, as well as exclusive access to: tools, resources, events, and a community of experts for ongoing support.

Explore training options on the [HPE Education and Training Services](#)

Learn more at

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