

FLUIDMESH PONTE



INTUITIVE POINT-TO-POINT SOLUTION FOR MISSION CRITICAL WIRELESS BACKHAULING

FLUIDMESH PONTE

Fluidmesh's entry-level wireless bridge solution for backhauling mission critical video, voice, and data. The product has been designed to provide a simple out of the box industrial grade solution to create a reliable point-to-point wireless link with minimum installation time and maximum reliability. Using the same quality and reliability of all other Fluidmesh Products, PONTE sets a new standard of reliability and ease of use in the Point-to-Point wireless market.



PRODIGY 2.0 RELIABLE WIRELESS TRANSMISSION FOR MISSION CRITICAL APPLICATIONS

Our MPLS-based transmission protocol is built to overcome the limits of standard 802.11 based wireless protocols and to deliver an infrastructure with a higher level of reliability. At the base of our innovative transmission protocol there is a traffic optimization algorithm that allows every Fluidmesh Radio to assign a specific level of propriety and reliability to every packet transmitted. The result is a better, more reliable, multi service wireless infrastructure.



UP TO 50 MBPS OF USABLE THROUGHPUT EVEN IN HIGH INTERFERENCE AREAS

Thanks to a 2x2 MIMO radio chip, PONTE is capable of delivering up to 50 Mbps of usable throughput even in high interference areas with up to 2 miles in LOS. This simply makes it the most reliable point-to-point solution in the market.



WEB INTERFACE CONFIGURES, MONITORS AND TROUBLESHOOTS THE WIRELESS LINK

PONTE includes FMQuadro Web Interface, which allows you to configure, monitor, and troubleshoot the wireless link in real time without any additional software. To simplify the configuration of the wireless network, the radio has a built-in spectrum analyzer and a real-time bandwidth-monitoring tool



EASY INSTALLATION

IP66 Rated, PONTE is designed for low visual impact and easy installation in harsh environments. To facilitate installation, PONTE has a two-cord watertight cable gland with a standard NPT-1 thread. This allows you to run pre-made CAT5/6 shielded cables or conduit directly to the radio. The highly visible LEDs tell you LAN activity and signal strength and the low-power POE injector guarantees an easy setup.



INDUSTRIAL GRADE and LOW POWER CONSUMPTION

With an operating temperature range of -40C to +80C and wind survivability of 120 Mph, PONTE is designed to operate in the toughest outdoor conditions. In addition, a super low power consumption of 8W makes it extremely friendly to low voltage power sources such as solar panels, wind turbines, and portable batteries.



FLUIDMESH CUSTOMER SUPPORT AND 2-YEAR WARRANTY

Like all other Fluidmesh Products, PONTE comes with live customer support and a world-class 2-year warranty. This means there is a human being you can call in case things don't work as planned or if you simply have a question you need an answer for. Making sure our customers receive top tier support from qualified engineers is one of our top priorities.



SUPPORTED ARCHITECTURES



POINT TO POINT

QUICK PEEK

POWERFUL WIRELESS BACKHAULING

PRODIGY 2.0

MPLS transmission protocol with intelligent QoS

FMQUADRO

Web-based interface to easily configure, monitor, and troubleshoot the network

MULTI FREQUENCY

4.9 GHz and 5.1-5.8 GHz

DUAL ETHERNET PORTS

Support PoE and multiple IP devices

LOW LATENCY AND HIGHER RELIABILITY

Compared to 802.11 Wi-fi radios



FM PONTE

FLUIDMESH PONTE

POWERFUL WIRELESS BACKHAULING FOR POINT TO POINT NETWORKING

RADIO

Range	Up to 3 miles
Frequency Bands	4.9-5.9GHz
Throughput*	Up to 50 Mbps
Modulation	Up to 300Mbps
Transmission Power	Up to 27 dBm, depending on configuration and regulations
Receiving Sensitivity	-96dB@6.5 Mbps; -75dB@300Mbps;
Latency Per hop	< 0.3 ms
Antenna Type	Built in 2x2 MIMO Panel
Antenna Gain	16.1 – 17.1 DBi
Polarization	Dual Linear
Cross-pol Isolation	22dB minimum
Max VSWR	2.0:1
Horizontal Beamwidth Coverage	33 deg
Vertical Beamwidth Coverage	17 deg

COMMUNICATION PROTOCOLS

Prodigy 2.0	Fluidmesh Intelligent Transmission Protocol
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ENVIRONMENTAL

Power Consumption	Max 8W
Operating Temperature	-40C to 80C -40F to 176F
Humidity	95% condensing
Weather Rating	IP66
Wind Survivability	120Mph 193 Kmh
Shock & Vibration	ETSI 300 - 019 - 1.4
Wind Loading @ 125Mph/200kmh	<25lb/11kg

SUPPLIED ACCESSORIES

POE injector 24VDC with US/EU/UK cord	Yes
Staging Kit	Yes

OPTIONAL SOFTWARE PLUGINS

AES - 128 bit Link Level Encryption Plugin	Yes
AES - 256 bit Link Level Encryption Plugin	Yes

ELECTRICAL

Power Input	2x Passive PoE from 12V DC to 24V DC
Power Consumption	Max 8W
Power over Ethernet Injector	2x Included, 90 to 260V, 50/60 Hz AC Input

PHYSICAL

Interfaces	2 Internal RJ45 Ports. Shielded CAT5/6 cables and connectors are recommended.
Coupling	NPT-1 threaded cable gland
Dimensions (in)	2 x 13(h)x6.1(w)x3.1(d)
Dimensions (mm)	2 x 330.5(h)x156.6(w)x79.9(d)
Weight	2 x 18.34oz / 0.519Kg

NETWORK

Protocols	UDP, TCP, IP, RTP, RTCP, RTSP, HTTP, HTTPS, ICMP, ARP
Web Based INTERFACE	Yes
Multicast Support	Yes
UPnP	Yes
SNMP	Yes
802.1Q VLAN	Yes

SECURITY

VPN	Yes
AES - 128 bit Link Level Encryption	Yes
AES - 256 bit Link Level Encryption	Yes
Full compatibility with AES, 3DES, RSA, HTTPS, SSL	Yes

APPROVALS

FCC CFR 47 Part 15, class B	Yes
Industry Canada RSS 210	Yes
CE	Yes

WARRANTY

2 years	Limited on parts and labor
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SUPPORTED ARCHITECTURES



POINT TO POINT

* In optimal environmental conditions

Fluidmesh Networks products are installed locally by professional System Integrators and are available worldwide through a network of Authorized Dealers. For additional information please call +1.617.209.6080 or visit us at fluidmesh.com



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