

FLUIDMESH 1200 VOLO FLUIDMESH NETWORKS

POWERFUL WIRELESS BACKHAULING

A 2x2 MIMO-based wireless radio, the FLUIDMESH VOLO is designed for backhauling mission-critical video, voice, and data. With a fully redesigned hardware platform, the FLUIDMESH VOLO is a data processing powerhouse. The FLUIDMESH VOLO is intuitive, easy to deploy, and can be used to create point-to-point, point-to-multipoint, mesh, and with a real throughput of upto 150 Mbps.



REDUCE THE COST OF NETWORK OWNERSHIP SELECT THE AMOUNT OF THROUGHPUT YOU NEED

Limit the cost of ownership with FluidThrottle by selecting only the amount of throughput required. More throughput can be easily achieved by upgrading the system with software plug-ins when the traffic requirements increase. FluidThrottle makes Fluidmesh cost-effective and future-proof.



PRODIGY 2.0 RELIABLE WIRELESS TRANSMISSION FOR MISSION-CRITICAL APPLICATIONS

Our MPLS-based transmission protocol is built to overcome the limits of standard 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 priority and reliability to every packet transmitted. The result is a better, more reliable, multi service wireless infrastructure.



UP TO 150 MBPS OF USABLE THROUGHPUT WITH VIRTUAL GIGABIT

The innovative FluidThrottle pricing allows throughput to scale as you grow by installing additional plugins. Virtual Gigabit allows you to continue growing all the way up to 150Mbps. By virtually bonding the Ethernet interfaces, real throughput above 100Mbps is just a click away.



WEB INTERFACE CONFIGURES, MONITORS AND TROUBLESHOOTS THE WIRELESS NETWORK

The FLUIDMESH VOLO includes the FMQuadro web interface that allows you to configure, monitor, and troubleshoot the wireless network 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.



YOUR INVESTMENT IS PROTECTED

Your investment is safe when business needs change. With FluidMAX, you don't have to replace your radios when you change the network's architecture from Point-to-Point to Point-to-Multipoint or Mesh. VOLO can operate in CSMA or TDMA.



EASY INSTALLATION

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



WI-FI SERVICE PORTAL

Quick troubleshooting and firmware upgrades can be done without getting out of your truck. For fast and low cost servicing, you can now wirelessly connect to the FLUIDMESH VOLO via a secure Wi-Fi 802.11n hotspot. The SSID is undetectable and password protected.



SUPPORTED ARCHITECTURES



POINT TO POINT



POINT TO MULTIPOINT



MESH



MIXED

QUICK PEEK

FLUIDTHROTTLE

Select only the throughput you need

PRODIGY 2.0

MPLS transmission protocol with intelligent QoS

VIRTUAL GIGABIT

Up to 150 Mbps usable throughput

FMQUADRO

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

FLUIDMAX

Change network's architecture not the radios

MULTI FREQUENCY

4.9 GHz and 5.1-5.8 GHz





DUAL ETHERNET PORTS

Support PoE and multiple IP devices



FLUIDMESH 1200 VOLO

POWERFUL WIRELESS BACKHAULING

RADIO		POINT TO POINT USABLE THROUGHPUT*			
Range	Up to 5 miles / 8 km *	Throughput	Miles	km	
Frequency Bands	4.9-5.9GHz	100	3	5	
Throughput	Up to 150 Mbps	50	4	6	
Modulation	Up to 300Mbps	20	5	8	
Transmission Power	Up to 27 dBm, depending on configuration and regulations	NETWORK			
Receiving Sensitivity	-96dB@6.5 Mbps; -75dB@300Mbps;	Protocols	UDP, TCP, IP, RTP, RTCP, RTSP, HTTP, HTTPS, ICMP, ARP		
Latency Per hop	< 0.3 ms	Web Based INTERFACE	Yes		
Antenna Type	Built in 2x2 MIMO Panel	Multicast Support	Yes		
Antenna Gain	16.1 - 17.1 DBi	UPnP	Yes		
Polarization	Dual Linear	SNMP	Yes		
Cross-pol Isolation	22dB minimum	802.1Q VLAN	Yes		
Max VSWR	2.0:1	SECURITY			
Horizontal Beamwidth Coverage	33 deg	VPN	Yes		
Vertical Beamwidth Coverage	17 deg	AES Link Level Encryption	Yes		
COMMUNICATION PROTOCOLS		Full compatibility with AES, 3DES, RSA, HTTPS, SSL	Yes		
Prodigy 1.0 and 2.0	Fluidmesh Intelligent Transmission Protocol	APPROVALS			
ENVIRONMENTAL		FCC CFR 47 Part 15, class B	Yes		
Operating Temperature	-40°C to 80°C -40°F to 176°F	Industry Canada RSS 210	Yes		
Humidity	95% non condensing	CE	Yes		
Weather Rating	IP66	WARRANTY			
Wind Survivability	120Mph 193 Kmh	2 years	Limited on parts and labor		
Shock & Vibration	ETSI 300 - 019 - 1.4	3 years	Optional		
Wind Loading @ 125Mph/200kmh	<25lb/11kg	5 years	Optional		
SUPPLIED ACCESSORIES		OPTIONAL SOFTWARE PART NUMBERS			
POE injector 24VDC with US/EU/UK cord	Yes	Hardware product (ethernet capacity up to 1 Mbps included)	FM1200V-HW		
Staging Kit	Yes	Ethernet capacity up to 2.5 Mbps	FM1200V-02		
ELECTRICAL		Ethernet capacity up to 5 Mbps	FM1200V-05		
Power Input	Passive PoE from 12V DC to 24V DC	Ethernet capacity up to 10 Mbps	FM1200V-10		
Power Consumption	Max 8W	Ethernet capacity up to 30 Mbps	FM1200V-30		
Power over Ethernet Injector	Included, 90 to 260V, 50/60 Hz AC Input	Ethernet capacity up to 60 Mbps	FM1200V-60		
PHYSICAL		Unlimited ethernet capacity (up to 100 Mbps)	FM1200V-UN		
Interfaces	2 Internal RJ45 Ports. Shielded CAT5/6 cables and connectors are recommended.	802.1 Q VLAN Support Plugin	FM-VLAN		
Coupling	NPT-1 threaded cable gland	AES Link level Encryption Plugin	FM-AES		
Dimensions (in)	13(h)x6.1(w)x3.1(d)	Virtual Gigabit Plugin	FM-GIGA		
Dimensions (mm)	330.5(h)x156.6(w)x79.9(d)	SUPPORTED ARCHITECTURES			
Weight	18.34oz / 0.519Kg				

* 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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