

FLUIDMESH 1200 VOLO

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



HEADQUARTERS.
1327 BARCLAY BOULEVARD
BUFFALO GROVE,
IL 60089, U.S.A.

TELEPHONE.
+1.617.209.6080
FAX.
+1.866.458.1522

EMAIL.
INFO@FLUIDMESH.COM
WEB.
FLUIDMESH.COM