

FLUIDMESH 3500 ENDO FLUIDMESH NETWORKS

POWERFUL WIRELESS BACKHAULING

The FLUIDMESH 3500 ENDO is designed and manufactured for backhauling mission critical video, voice and data. The FLUIDMESH 3500 ENDO can be used to create point-to-point, point-to-multipoint, mesh, and mobility networks with a throughput up to 500 Mbps.

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

Limit the cost of network 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 FOR RELIABLE 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.

WEB INTERFACE CONFIGURES, MONITORS AND TROUBLESHOTS THE WIRELESS NETWORK

The FLUIDMESH 3500 ENDO 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. The FLUIDMESH 3500 ENDO can operate in CSMA or TDMA.

WORKS WITH FLUIDITY™, OUR UNIQUE MOBILITY SOLUTION

The FLUIDMESH 3500 ENDO supports FLUIDITY™, the ultimate broadband connectivity solution for high speed vehicles. Providing up to 500 Mbps of usable throughput to vehicles travelling up to 225mph/360Kmh is now a reality.

There is no handoff time with FLUIDITY thanks to the "make before brake" seamless handoff, and it will maintain persistent network sessions and streams for any type of traffic.

EASY INSTALLATION

The FLUIDMESH 3500 ENDO has a small form factor to minimize the impact of the installation.

To facilitate installation it has an easy NPT-1 thread for conduit. The screws, located at the bottom, are self-retaining. The visible LEDs help you understanding the LAN activity and the strength of your signal. The POE injector guarantees an easy setup.



QUICK PEEK

RUGGED DIE CAST ALUMINUM HOUSING

Specific for harsh environments and long lasting performances

FLUIDTHROTTLE™

Select only the throughput you need

PRODIGY 2.0

MPLS transmission protocol with intelligent QoS

FMQUADRO

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

FLUIDMAX

Change network's architecture not the radios

FLUIDITY™

Connectivity solution for high speed vehicles and trains

MULTI FREQUENCY

4.9 GHz and 5.1-5.8 GHz

ETHERNET PORT

802.3at PoE Gigabit

EASY INSTALLATION

NPT-1 threaded cable gland for conduit direct mounting

FLUIDMESH 3500 ENDO



POWERFUL WIRELESS BACKHAULING

SYSTEM

Chipset	CPU	880MHz 1004Kc MIPS Network processor
	RF	MIMO 2x2
Interface		2 x 10/100/1000 Tx-RJ45 1 Reset button for factory default 1 x Power
LED		1 x Ethernet 1 1 x Ethernet 2 4 X RSSI

RADIO

Communication Protocol	Prodigy 2.0
Operating frequencies*	5150-5350 / 5470-5850 MHz 4940-4990 MHz 2350-2700/ 3350-3700 MHz
Data rate	6/9/12/18/24/36/48/54Mbps 30/60/90/120/180/240/300 Mbps 65/140/195/260/390/520/585/ 650/780/866.6Mbps
Modulation	OFDM (BPSK,QPSK,16QAM,64QAM, 256QAM)
Channel width	5/10/20/40/80 MHz
Coaxial connectors	2X Cu-Sn-Zn-plated RP-SMA female compliant with ASTM B117
Output power	Up to 30dBm**

PHYSICAL

Weight	25 oz / 700 gr
Dimensions (in)	9,1(h)x5,2(w)x2,18(d) in
Dimensions (mm)	230,5(h)x132,4(w)x60,5(d) mm

ENVIRONMENTAL

IP Rating	IP 66
Enclosure	Die-cast metal aluminum
Mounting	Pole Mounting Kit and Din-rail mounting included
Operating Temperature	-40°C to 75°C -40°F to 167°F
Shock and Vibration	ETSI300-019-1.4
Operating Humidity	5% to 95% non condensing

REGULATORY COMPLIANCE

Approvals	FCC Part 15.B, FCC Part 15.C FCC Part 15.E, NII/RSS-210 Annex 9, FCC Part 90y, OET 65 MPE/ RSS102, EN893+DFS, EN301189-1 EN5502224 EN 62311, En 60950, IC RS2010, CE, UL, ROHS
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SECURITY

VPN / L2TP	Yes
Full compatibility with AES, 3DES, RSA, HTTPS, SSL	Yes
AES Link Level Encryption	Yes

NETWORK

Protocols	UTP, TCP, IP, RTP, RTCP, RTSP, HTTP, HTTPS, ICMP, ARP
Web based interface	Yes
Multicast support	Yes
UPnP support	Yes
SNMP support	Yes
802.1Q VLAN Support	Yes

ELECTRICAL

Power input	48Vdc Active 802.3at PoE 48Vdc Passive PoE output***
Max Power consumption	20 Watts

WARRANTY

2 Years	Limited on parts and labor
3 Years	Optional
5 Years	Optional

SOFTWARE PLUGINS

Ethernet capacity Plugin up to 15Mbps	Included
Ethernet Capacity Fixed Networks Plugins	30 Mbps, 60 Mbps, 120 Mbps, 200 Mbps, 200Mbps, Unlimited
Fluidity Plugins Infrastructure	15 Mbps, 20 Mbps, 30 Mbps, 60Mbps, 150Mbps, 250Mbps, Unlimited
Fluidity Mobile Units Plugins	5Mbps, 10Mbps, 15Mbps, 20Mbps, 30Mbps, 60Mbps, 150Mbps, 250Mbps, Unlimited
802.1Q VLAN Support	Yes
802.11 Wi-Fi	Yes
AES Link Level Encryption	Yes

* Some frequencies may require minimum order volumes or special licenses

**Depends on configuration and regulations

*** PoE injector and PoE converters available upon request

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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