

FM 3200 BASE



POWERFUL WIRELESS BACKHAULING

The FM 3200 BASE is designed and manufactured for backhauling mission-critical video, voice and data. The FM 3200 BASE can be used to create point-to-point, point-to-multi point, mesh, and mobility networks with a throughput up to 150 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.

This solution makes Fluidmesh Networks the most cost effective and flexible wireless solutions provider in the market.



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 FM 3200 BASE 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. FM 3200 BASE can operate in CSMA or TDMA.



WORKS WITH FLUIDITY, OUR UNIQUE MOBILITY SOLUTION

FM 3200 BASE supports FLUIDITY, the ultimate broadband connectivity solution for high speed vehicles. Providing up to 150 Mbps of usable throughput to vehicles travelling up to 220mph/350Kmh is now a reality. There is no handoff time with FLUIDITY thanks to the "make before break" seamless handoff, and it will maintain persistent network sessions and streams for any type of traffic.



EASY INSTALLATION

FM 3200 BASE 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

POWERFUL WIRELESS

RUGGED DIE CAST ALUMINUM

Specific for harsh environments and long lasting performances

FLUIDTHROTTLE

Select only the throughput you need

PRODIGY 2.0

MPLS transmission protocol with intelligent QoS

BAZOOKA

Aggregates multiple links for higher throughput capacity

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

MULTI FREQUENCY

4.9 GHz and 5.1-5.8 GHz

ETHERNET PORT

802.3af PoE Gigabit

EASY INSTALL

NPT-1 threaded cable gland for conduit direct mounting



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

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POWERFUL WIRELESS BACKHAULING

SYSTEM

Chipset	CPU	600 MHz MIPS Network processor
	RF	MIMO 2x2
Interface	1 x 10/100/1000 Tx-RJ45	
	1 x 10/100 Base-Tx RJ-45	
	1 Reset button for factory default	
LED	1 x Power	
	1 x Ethernet 1	
	1 x Ethernet 2	
	4 X RSSI	

RADIO

Communication Protocol	Prodigy 2.0
Operating frequencies*	5150-5350 / 5470-5825 MHz
	4940-4990 MHz 2350-2700/ 3350-3700 MHz
Data rate	6/9/12/18/24/36/48/54Mbps 30/60/90/120/180/240/270/300 Mbps
Modulation	OFDM (BPSK,QPSK,16QAM,64QAM)
Channel width	5/10/20/40 MHz
Coaxial connectors	2X Cu-Sn-Zn-plated RP-SMA compliant with ASTM B117
Output power** (dBm)	Up to 27
Horizontal beamwidth coverage	120 deg
Vertical beamwidth coverage -	10 deg

ELECTRICAL

Power method	48V Active 802.3af PoE
	48V Passive PoE
Power supply (included)	48V/0.5A PoE
Max Power consumption	8 Watts
	5 Watts

ENVIRONMENTAL

IP Rating	IP 67
Enclosure Characteristic	Die-cast metal aluminum
Mounting	Point Mounting Kit included
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

OPTIONAL SOFTWARE PLUGINS

Ethernet Capacity Plug-in up to 30 Mbps	Included
Ethernet Capacity Plug-in up to 60 Mbps	Yes
Ethernet Capacity Plug-in up to 90 Mbps	Yes
Ethernet Capacity Plug-in unlimited	Yes
Fluidity Plugin	Yes
802.1Q VLAN Support plugin	Yes

COMMUNICATION PROTOCOL

Prodigy 1.0 and 2.0	Yes
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REGULATORY COMPLIANCE

Wireless 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	Servicing only

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

WARRANTY

2 Years	On parts and labor
3 Years	Optional
5 Years	Optional

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Usable throughput (Mbps)	150 Mbps / 1 miles - 1,6 km
	120 Mbps / 1.5 miles - 2 km
	100 Mbps / 2 miles - 3 km
	60 Mbps / 2.5 miles - 4 km
Weight/Dimensions	30 Mbps / 3 miles - 5 km
	80 oz / 2260 gr
	16(h) x 7(w) x 8(d) in
	400(h) x 180(w) x 200(d) mm

* Some frequencies may require minimum order volumes or special licenses

**Depends on configuration and regulations

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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