FLUIDMESH 1300 OTTO

FLUIDMESH NETWORKS

POWERFUL WIRELESS BACKHAULING

The FM 1300 OTTO is designed and manufactured for backhauling mission-critical video, voice and data. The FM 1300 OTTO can be used to create point-to-point links 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.
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 TROUBLESHOOTS THE WIRELESS NETWORK

The FM 1300 OTTO 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 real-time bandwidth monitoring tool.

EASY INSTALLATION

To facilitate installation it has an easy NPT thread for conduit. 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 environements 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

MULTI FREQUENCY
5.1-5.8 GHz

ETHERNET PORT
802.3af PoE Gigabit

EASY INSTALLATION
3/8"-18 NPT thread cable gland for conduit direct mounting

HIGH GAIN ANTENNA
19 dBi integrated antenna for long distance links

FLUIDMESH 1300 OTTO

FLUIDMESH NETWORKS

POWERFUL WIRELESS BACKHAULING

SYSTEM

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

RADIO

Comunication Protocol	Prodigy 2.0
Operating frequencies*	5150-5350 / 5470-5850 MHz
Data rate	MCSD-9 x 2 streams
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel width	5/10/20/40/80 MHz
Output power** (dBm)	Up to 30

ELECTRICAL

Power method	48V Active 802.3af PoE 48V Passive PoE
Power supply (included)	48V/0.5A PoE
Max Power consumption	10 Watts

PHISICAL

Weight	1,85 kg / 4 lbs
Dimensions	ø 260,8 mm x 51,7 mm (d) / 10 in x 2 in (d) (131,4 mm / 5 inch without mounting)

WARRANTY

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

* Some frequencies may require minimum order volumes or special licenses
** Depends on configuration and regulations
*** Usable throughput can vary based on enviromental conditions

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

SECURITY

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

ENVIRONMENTAL

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

EXPECTED THROUGHPUT ***

THROUGHPUT (Mbps)	MAX DISTANCE (miles)	MAX DISTANCE (km)
500	1	1,6
350	2	3
250	3	5
90	10	16

PART NUMBERS

Hardware product (Ethernet capacity up to 30 Mbps included)	FM1300T-HW
Ethernet Capacity up to 60 Mbps	FM1300T-60
Ethernet Capacity up to 120 Mbps	FM1300T-120
Ethernet Capacity up to 200 Mbps	FM1300T-200
Ethernet Capacity up to 300 Mbps	FM1300T-300
Unlimited Ethernet Capacity (up to 500 Mbps)	FM1300T-UN
AES Link Level Encryption	FM-AES

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

FLUIDMESH NETWORKS

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

Copyright ® Fluidmesh Networks, LLC. All rights reserved. Fluidmesh is a registered trademark of Fluidmesh Networks, LLC. EasyMesh, FMQuadro, FluidMax, FluidThrottle, Bazooka, Fluidity and Virtual Gig are trademarks of Fluidmesh Networks LLC. All other brand and product names are the trademarks of their respective holders. Information contained herein is subject to change without notice. The only warranties for Fluidmesh Networks products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Fluidmesh Networks shall not be liable for technical or editorial errors or omissions contained herein.