

FM 3100 ENDO

WIRELESS MADE EASY

The FM3100 ENDO is designed and manufactured for backhauling mission-critical video, voice and data. A 2x2 MIMO radio, the FM3100 ENDO can be used to create highly customized point-to-point, point-to-multipoint, mesh, and mobility networks with a throughput of up to 100 Mbps.

PICK YOUR OWN ANTENNA

Every installation is different. Now you can pick the antenna* that you need, depending on the problem that you want to solve. For long range links you can pick a parabolic dish external antenna or an omni-directional external antenna for mobile applications.

REDUCE THE COST OF 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 3100 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 FM 3100 ENDO has a built-in spectrum analyzer and a real-time bandwidth monitoring tool.

WORKS WITH FLUIDITY, OUR UNIQUE MOBILITY SOLUTION

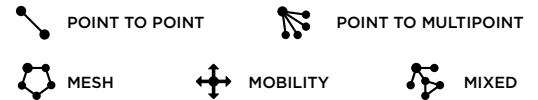
The 3100 ENDO supports FLUIDITY, the ultimate broadband connectivity solution for high speed vehicles. Providing up to 100 Mbps usable throughput to vehicles traveling at up to 200mph/320Kmh is now a reality. FLUIDITY features an industry leading roaming handoff of 3 ms, and will maintain persistent network sessions and streams for any type of traffic.

EASY INSTALLATION

FM3100 ENDO has a small form factor designed for low visual impact. To facilitate installation it has a watertight PG9 metal cable gland for shielded CAT5/6 cables, a removable bottom, and two RP-SMA connectors that allow you to pick the antenna that you need. The visible LEDs helps you understand the LAN activity and the strength of your signal. The POE injector guarantees an easy setup.



SUPPORTED ARCHITECTURES



QUICK PEEK

POWERFUL WIRELESS BACKHAULING

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

LOW LATENCY AND HIGHER RELIABILITY

Compared to 802.11 Wi-Fi radios

SUPPORTS FLUIDITY

Broadband connection to high speed vehicles

PICK YOUR OWN ANTENNA

FAST INSTALLATION

MULTI FREQUENCY

2.3, 2.4, 3.3-3.7, 4.9, 5.1-5.8, 5.9-6.0 GHz**

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RADIO

| | |
|-------------------------------|--|
| Range | Depends on the antenna |
| Frequency Bands | 2.3, 2.4, 3.3-3.7, 4.9-5.9 GHz |
| Radio Connectors | 2 RP-SMA Connectors |
| Throughput | Up to 100 Mbps |
| Modulation | Up to 300Mbps |
| Transmission Power | Up to 27 dBm, depending on configuration and regulations |
| Receiving Sensitivity | -96dB@6.5 Mbps; -70dB@300Mbps; |
| Latency per hop | < 0.3 ms |
| Antenna Type | - |
| Antenna Gain | - |
| Polarization | - |
| Cross-pol Isolation | - |
| Max VSWR | - |
| Horizontal Beamwidth Coverage | - |
| Vertical Beamwidth Coverage | - |

ENVIRONMENTAL

| | |
|----------------------------|-----------------------------|
| Power Consumption | Max 8W |
| Operating Temperature | -40C to 80C -40F to 176F |
| Humidity | 95% condensing |
| Weather Rating | IP65 |
| Wind Survivability | 120Mph /193km |
| Shock & Vibration | ETSI 300 - 019 - 1.4 |
| Wind Loading@125Mph/200Kmh | <25lb/11kg |

ELECTRICAL

| | |
|------------------------------|---|
| Power Input | Passive PoE from 12V DC to 24V DC |
| Power Consumption | Max 8W |
| Power over Ethernet Injector | 90/260V, 50/60 Hz AC Input 24V DC output |

OPTIONAL SOFTWARE PLUG-INS

| | |
|--|----------|
| Ethernet Capacity Plug in up to 10 Mbps | Included |
| Ethernet Capacity Plug in up to 30 Mbps | Yes |
| Ethernet Capacity Plug in up to 60 Mbps | Yes |
| Ethernet Capacity Plug in up to 100 Mbps | Yes |
| Fluidity Plugin | Yes |
| 802.1Q VLAN Support Plugin | Yes |
| AES - 128 bit Link Level Encryption Plugin | Yes |
| AES - 256 bit Link Level Encryption Plugin | Yes |
| Bazooka Plugin | Yes |

IMPORTANT:

FM3100 ENDO is available only for Fluidmesh Networks pre-approved applications.

SECURITY

| | |
|--|-----|
| VPN | Yes |
| AES-128 bit Link Level Encryption | Yes |
| AES-256 bit Link Level Encryption | Yes |
| Full compatibility with AES, 3DES, RSA, HTTPS, SSL | Yes |

PHYSICAL

| | |
|-----------------|--|
| Interfaces | 1 Internal RJ45 Port. Shielded CAT5/6 cables and connectors are recommended. |
| Coupling | PG9 metal cable gland |
| Dimensions (mm) | 180(h)x84(w)x37(d) |
| Weight | 0.5Kg / 1.1lb |

COMMUNICATION PROTOCOLS

| | |
|---------------------|----------------|
| Prodigy 1.0 and 2.0 | Yes |
| Wi - Fi 802.11n | Servicing only |

NETWORK

| | |
|---------------------|---|
| Protocols | UDP, 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 |

APPROVALS

| | |
|-----------------------------|-----|
| FCC CFR 47 Part 15, class B | Yes |
| Industry Canada RSS 210 | Yes |
| CE | Yes |

SUPPLIED ACCESSORIES

| | |
|--|-----|
| POE Injector 24VDC with US/EU/UK cord | Yes |
|--|-----|

WARRANTY

| | |
|-------------------|-------------------------|
| 2 years | Limited parts and labor |
| 3 years extension | Optional |
| 5 years extension | Optional |

SUPPORTED ARCHITECTURES



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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