

## Outdoor Giga Ethernet Mesh M-100 M-300

**MESH- HOTSPOT- AP  
 WIFI- 802.11n- Nstreme**



### M-100: 100 Mbps Mesh/Hot Spot

Wi-Corp MESH-Series are ideal cost-effective outdoor wireless networking solutions for WISP service companies, and corporate branches. MESH Series have been designed from the beginning to give carrier class quality service, therefore they can do long distance links in the toughest environments with outstanding stability.

MESH-Series can be used as stand-alone Access Points/Hot spots, or to build MAN MESH Systems. MESH Series are equipped with one Ethernet port, that can be connected to a switch or an access Point without the need to install a router. This feature represents significant savings on hardware costs.

MESH Series use OFDM/MIMO technology in the 5.8/ 2.4 GHz license free bands; and OFDM can take advantage of reflected RF signals. Hence it is now possible to connect locations you may have thought were inaccessible due to line of sight barriers.

Most features of the MESH are pre-configured and automatically adapt to the environment, making configuration and use very simple. The MESH supports VLAN, transparent Bridge and comes with robust management features, such as NAT, DHCP Client, DHCP Server, IP Routing, RIP2 and SNMP. These features and its

processing capacity make the OR 12 a unique product in the outdoor wireless market.

#### Hardware Highlights

- 5.8 Ghz or 2.4 GHz OFDM/MIMO
- 1 Ethernet, 1 RF
- 700 MHz-64 RAM: M100
- 800 MHz- 256 MRAM: M300
- Die Cast IP 66

#### C-Class Router OS Software

- Transparent MAC Layer operation
- VLAN support
- Learning bridge that supports forwarding and filtering
- Durable outdoor case construction
- IP Routing
- Radius
- Polling
- Long Distance throughput
- Super packet Aggregation
- VoIP Support
- QoS

#### Radio Features

- Wireless data rates of up to 108 Mbits/sec
- Full bandwidth management/ CIR/ MIR
- 100 Mbs real throughput (M-100)
- 300 Mbps real throughput (M-300)
- **Wide Band: 5.1-5.3-5.8 GHz**
- Radio link and antenna alignment diagnostics
- WEP hardware encryption standard
- Operating range up to 25 miles.
- Output Power 320 Mw: M100
- Output Power 500 Mw: M300
- *Ultra low latency*

#### Ethernet Features:

- 10/ 100 Dual Ethernet: M100
- 10/100/1000 Giga Ethernet: M300
- Power over Ethernet



**MESH-Series**

## MESH-Series Specifications

### Firmware Features

Routing RIP 1 / 2, OSPF v2, BGP v4 (equal cost multi-path routing, policy based routing, firewall marked packet routing)

- . PPP (ISDN, PPPoE, modem pool)
- . RADIUS authorization and accounting
- . AES Encryption
- . Bridging (Client Only)
- . Stateful Firewall and NAT
- . VLAN
- . DHCP
- . Tunnels (PPTP (VPN), IPsec, EoIP, IPsec)
- . IP traffic accounting, firewall actions logging
- . Bandwidth Management (per IP / protocol / subnet / port, CBQ, RED, SFQ, byte FIFO, packet FIFO)
- . Tools (ping, traceroute, bandwidth test, ping flood, telnet)
- . Remote Administration & Upgrading
- . Web cache- DNS Cache
- . SNMP
- . NTP (Network Time Protocol)
- . LONG DISTANCE FEATURES: Super packet aggregation, Long Distance High throughput links

### Radio Features

Spread spectrum method OFDM 80211 a+ wavemax nstreme

Frequency (User selectable): 5.1 GHz – 5.3 GHz- 5.8 GHz

Channels (User selectable) 5120- 6100 (5 Mhz Steps)

#### 5.8 GHz Power and sensitivity chart:

**M100: 320 Mw OR11- 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6**

5.8 GHz Wireless transmission rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6

5.8 GHz Radio transmit power 25 dBm nominal @ 6 Mb/sec, 17 dBm nominal @ 150 Mb/sec

5.8 GHz Radio receive sensitivity -97 dBm @ 6 Mb/sec, -74 dBm @ 54 Mb/sec

**M300: 500 Mw Amplified 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6**

5.8 GHz Radio transmit power 26 dBm

5.8 GHz Radio receive sensitivity -94 dBm @ 6 Mb/sec, -74 dBm @ 300Mb/sec

### System Hardware Features

Dimensions (RF unit) 9" x 7" x 3.5" (22.9 cm x 17.8 cm x 8.9 cm)

Weight (per RF unit) 4.5 lbs.

Shipping weight (complete package) Approx. 26 lbs. (standard package)

64 MB Memory-700 MHz processor: M100

256 MB Memory- 800 MHz processor: M300

Operating temperature -30°C to 55°C (-20°F to 131°F)- Storage temperature -30°C to 75°C (-20°F to 167°F)

Humidity 0% to 100% (Non-immersion rain)

Wall wart power supply included Yes, 110/240 VAC- Power design Carrier Class Power over Ethernet

Power required (at radio) +15 to +18 VDC (from included power supply)

Wired Network Interface (at PoE injector) RJ-45 10/100Base-T

Certification FCC

Warranty 1 year depot

**More Information: [info@wi-corp.com](mailto:info@wi-corp.com)**

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