

## M4.4100

### External Mesh Node

The MESH4G™ External Mesh Node (M4.4100) is deployed to guarantee wireless coverage in large geographic areas whilst providing wireless network access to one or more IP devices via its built-in RJ45 Ethernet port.

The M4.4100 efficiently combines the functionality of a MESH4G™ wireless router and client modem in a single, cost effective, wireless network component. This makes it easy for any Ethernet ready device to access a MESH4G™- Enabled Network. Computers, IP video cameras, sensors, signs, signals, etc. can all be MESH4G™-Enabled to send and receive data at burst rates of up to 6 Mbps.

All of the standard MESH4G™ wireless router functionality, including Multi-Hopping and non line-of-sight communications is fully supported.

MESH4G™ Extended Routers Also Provide:

- Range extension between clients and MESH4G™ Access Points
- Unlimited IP addresses

### Compact & Low Cost

By combining the functionality of a wireless router and client modem into a single device, network equipment and deployment costs are significantly reduced.



### Rapid Installation and Deployment

MESH4G™ External Mesh Nodes are designed to mount on utility poles, billboards, buildings, etc. Simple mounting hardware and Ethernet connectivity with power over ethernet (PoE). No special training or skills are required. The MESH4G™ External Mesh Node automatically powers-up and integrates into the network.

### Multiple IP Address Support

The External Mesh Node supports unlimited IP addresses, allowing a network of end-user devices to be addressed and managed over the MEA network.

### Over-the-Air Software Updates

New features and services can be added via over-the-air software downloads. This simplifies network maintenance and improves network management.

# Metropolitan Wireless

## Automatic Network Balancing

The NOW Wireless MESH4G™ External Mesh Node intelligently balances traffic between client demand and network resources. Clients are routed around local congestion, while Multi-Hopping technology enables capacity from distant MESH4G™ Access Points to be “moved” to exactly where it is needed. Network resource utilization is continually optimized, reducing network and operational expenses.

## Enables Non-Line-of-Sight Networking

MESH4G™ External Mesh Nodes act as hopping points for wireless data packets, and work in conjunction with the MESH4G™ Access Points to form a distributed network infrastructure. The External Mesh Node provides non-line-of-sight communications between wireless clients and MESH4G™ Access Points.

## SPECIFICATIONS

### GENERAL INFORMATION

#### Data Rate >

1.5 to 6 Mbps burst, depending on configuration

#### Power Consumption >

2W

#### Power Requirements >

Power over ethernet 48V DC

#### Power Cord >

RJ45 PoE

### RADIO

#### Output Power >

Up to 25 dBm

#### RF Modulation >

QCMR

#### Operating Frequency >

2.4 GHz - 2nd ISM band

#### Antenna Type >

Omnidirectional 8 dBi

#### Antenna Connector >

N-Type

### ENVIRONMENTAL

#### Temperature Range >

-35 to 55 °C

#### Humidity >

0-100%

### NETWORK INFORMATION

#### Network Management >

VMA Manager

#### Network Interface >

10/100 Mbps Ethernet

#### Configurable Network >

Unlimited IP addresses - Hub/switch needed to connect more than one device

### PHYSICAL

#### Dimensions >

8.75" x 5" x 3.25"

(22cm x 12.5cm x 8cm) without Antenna

#### Weight >

0.7 kg approx.

#### Packaging >

IP67 environmental enclosure for indoor and outdoor deployment

### AVAILABLE OPTIONS

#### PoE Injector

#### Antenna >

Ask your sales representative for antenna options

Specifications subject to change without notice. E&OE.