M4.4050

External Mesh Node (EWR)

The MESH4G™ External Mesh Node (M4.4050) is deployed to guarantee wireless coverage in large geographic areas while providing wireless network access to one or more IP devices via its built-in RJ45 Ethernet port.

The M4.4050 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 (as pictured at right), 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, non line-of-sight communications and position location services, is fully supported.

Mesh4G Extended Routers Also Provide:

- Range extension between clients and Mesh4G Access Points
- Fixed reference points for position location services
- Up to 3 assignable IP addresses

Compact & Low Cost

By combining the functionally 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 plug-in power and Ethernet connectivity speeds deployment. 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 three IP addresses, allowing a network of end-user devices to be addressed and managed over the MEA network. Four or more devices can be supported by adding a NAT router to the client 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.

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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 (M4.4000) 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 concert with the MESH4G™ Access Points to form a distributed network infrastructure. The Exnternal Mesh Node provides non-line-of-sight communications between wireless clients and MESH4G™ Access Points, as well as between clients that are part of ad-hoc peer-to-peer networks.

M4.4050 SPECIFICATIONS:

GENERAL INFORMATION

Data Rate >
1.5 to 6 Mbps burst, depending on configuration

Certifications >
US-FCC Part 15
IEC 60950
EN 60950
EN 60215
CSA C22.2 No. 60950-000
RSS-210

Power Consumption >
12W Maximum at 120v AC

Power Requirements >
90-264v AC
47-63 Hz Single Phase

Power Cord >
NEMA 5-15 Power Cord (6ft)

NETWORK INFORMATION

Network Management >
MeshManager via SNMP

Network Interface >
10/100 Mbps Ethernet
(other options available)

Configurable Network Drives >
3 Assignable IP addresses - Hub needed to connect more than one device

ENVIRONMENTAL

Temperature Range >
-35 to 55 °C

Humidity >
0-100%

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

PHYSICAL

Dimensions >
6.25" x 6.25" x 4"
(15.9cm x 15.9cm x 10.2cm)
without antenna

Weight >
3.8 lbs (1.73kg)

Packaging >
NEMA 4 environmental enclosure for indoor and outdoor deployment

AVAILABLE OPTIONS

Power Tap >
Cable Assembly
Photo Cell Power Adapter

DC Input >
MESH4G™ External Mesh Node with 5v DC input available

Antenna >
Ask your sales representative for antenna options

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