

M4.4000

Mesh Access Point (IAP)

In a Mesh-Enabled mobile broadband network, the MESH4G™ Access Point is a small, low cost device that acts as the transition point from the wireless network to the wired world. Each MESH4G™ Access Point offers a maximum burst rate of up to 6 Mbps that can be used for voice, video and data communications.

If greater network capacity is required, additional MESH4G™ Access Points can be easily deployed - without the need for extensive RF or site planning.

The location of MESH4G™ Access Points is non-critical due to the self-forming, self-healing and self-balancing nature of the Mesh network.

MESH4G™ Access Points Also Provide:

- Local network management of MESH4G™ Wireless Routers and MESH4G™ nodes.
- Fixed reference point for geo-location services
- Mobility management

Up to 6 Mbps Burst Data Per MESH4G™ Access Point

Each MESH4G™ Access Point provides up to 6 Mbps burst data. Since MESH4G™ Access Points utilize intelligent data rate selection and sophisticated self-forming routing algorithms, new MESH4G™ Access Points can be added to address hot spots, or any place increased capacity is needed. Deployment is simple, as new MESH4G™ Access Points automatically integrate themselves into the network.



Supports High-Speed Mobility

NOW Wireless's MESH4G™ solution has been designed from the ground-up as a mobile broadband network. Wide area mobility management and seamless hand-offs between MESH4G™ Access Points insure consistent service and sustained broadband data rates, even when clients are moving at highway speeds.

Easy to Install and Deploy

MESH4G™ Access Points are designed to mount on utility poles, billboards, buildings, etc. Simple mounting hardware, and plug-in power and network connections, make deployment easy. MESH4G™ Access Points automatically power-up and integrate into the network.

Network Management and Monitoring

The MESH4G™ Access Point supports over-the-air management and maintenance of Wireless Routers and Client Devices. MESH4G™ Access Points monitor the network's health via communications with the MESH4G™ Central Manager System (M4. Manager). Over-the-air software loads for network and client devices can be distributed via MESH4G™ Access Points.

Metropolitan Wireless

Supports End-to-End Industry Standard IP

MESH4G™ Access Points transparently support industry standard IP protocols, applications and devices. This maximizes existing investments in client hardware and software, while eliminating training on new applications or procedures.

M4.4000 SPECIFICATIONS

RADIO CHARACTERISTICS

Output Power - Up to 25 dBm

RF Modulation - QDMA

Operating Frequency (GHz) - 2.4 - 2.4835
(2nd ISM Band)

Maximum Burst Data Rate - 6 Mbps

Spectrum Used - 60 MHz

Antenna Type - Omnidirectional, 8 dBi

Antenna Connector - N-Type

NETWORK

Network Management Software -
MeshManager via SNMP

Network Interface - 10/100 Mbps Ethernet,
RJ-45 connector

SECURITY

Virtual Private Network (VPN) - Support for
FIPS-140-2 compliant encryption (Padcom,
RadiolP and NetMotion)

Authentication - 802.1X

PHYSICAL

Dimensions - 6.25" x 6.25" x 4" (15.9cm x
15.9cm x 10.2cm)

Weight - 4.4 lbs (1.99kg)

Packaging - NEMA 4 environmental
enclosure for indoor or outdoor deployment

Fast and Accurate Geo-Location

NOW Wireless's architecture does not depend on GPS for client geo-location. The fixed positions of MESH4G™ Access Point and MESH4G™ Wireless Routers, along with patented software, are used to determine the accurate 3D location of any client. Location information for subscriber devices is output in industry standard NMEA0183 format, or through the API. This feature supports location aware services that will lead to next generation mobile applications.

POWER

Power Requirements - 90 to 264 VAC, 47
- 63 Hz single phase

Power Connector - AC, NEMA 5-15 power
cord • 6 ft (1.83m)

Power Consumption - 12W Maximum at
120VAC

ENVIRONMENTAL

Temperature Range - -35 to 55 °C

Humidity - 0 to 100%, non-condensing

General Certifications - FCC Part 15, RSS-
210

Safety Certifications - IEC 60950, EN 60950,
EN 60215, CSA C22.2 No. 60950-00010

CE Mark ETSI EN 301 489-1, ETSI EN 301
489-17

AVAILABLE OPTIONS

Power - Cable assembly, or AC photo cell
power adapter

DC Input - M4.4000 with 5-14VDC input

Antenna - Ask your sales representative for
other antenna options