EWR6300 ENHANCED WIRELESS ROUTER

GENERAL DESCRIPTION

The Enhanced Wireless Router (EWR) 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 EWR efficiently combines the functionality of a MeshNetworks 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 MeshNetworks Enabled Architecture (MEA) mobile broadband network.

Computers, IP video cameras (as pictured at the right), sensors, signs, signals, etc. can all be mesh-enabled to send and receive data at burst rates of up to 6 Mbps. All of the standard Wireless Router functionality, including Multi-Hopping, non-line-of-sight communications and position location services, is fully supported.

Enhanced Wireless Routers Also Provide

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

FEATURES AND BENEFITS

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
EWRs 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 EWR automatically powers-up and integrates into the network.

Multiple IP Address Support
The EWR 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 simply 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.

Automatic Network Balancing
The MeshNetworks' EWR intelligently balances traffic between client demand and network resources. Clients are routed around local congestion, while Multi-Hopping technology enables capacity from distant Intelligent Access Points (IAPs) to be "moved" to exactly where it is needed. Network resource utilization is continually optimized, reducing operational expenses.

Enables Non-Line-of-Sight Networking
Enhanced Wireless Routers act as hopping points for wireless data packets, and work in concert with IAPs to form a distributed network infrastructure. The EWR provides non-line-of-sight communications between wireless clients and IAPs, as well as between clients that are part of ad hoc peer-to-peer networks.

CONTACT INFORMATION

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MESH NETWORKS

PRODUCT SPECIFICATIONS

mea MESHNETWORKS ENABLED ARCHITECTURE

GENERAL INFORMATION

Data Rate	1.5 to 6 Mbps burst, depending on configuration
Certifications	US-FCC Part 15, RSS-210
Safety Certifications	IEC 60950 EN 60950, EN 60215 CSA C22.2 No. 60950-00010
CE Mark	ETSI EN 300 328 V 141 ETSI EN 301 489-1 ETSI EN 301 489-17 EN 55022:1998, EN 55024:1998
Power Consumption	12W Maximum at 120v AC
Power Requirements	90-264v AC 47-63 Hz Single Phase
Power Cord	MeshNetworks' NEMA 5-15 Power Cord (6ft)

NETWORK INFORMATION

Network Management	MeshManager via SNMP
Network Interface	10/100 Mbps Ethernet, RJ45
Configurable Network Devices	3 Assignable IP addresses - Hub needed to connect more than one device

RADIO

Output Power	Up to 25 dBm
RF Modulation	QDMA
Operating Frequency	2.4 GHz - 2nd ISM band
Antenna Type	Omnidirectional 8 dBi
Antenna Connector	N-Type

PHYSICAL

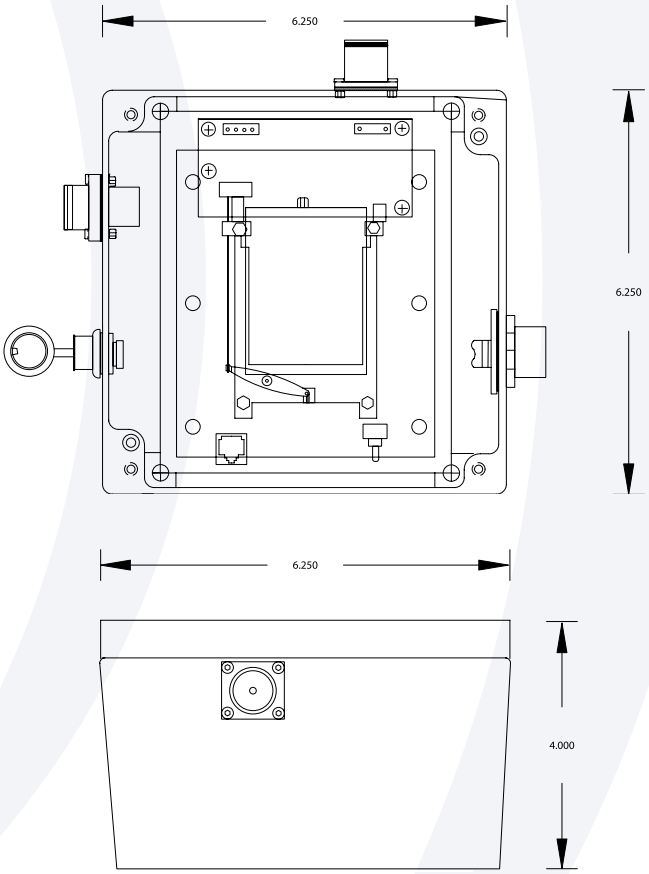
Dimensions (without antenna)	6.25" x 6.25" x 4" (15.9cm x 15.9cm x 10.2cm)
Weight	3.8 lbs (1.73kg)
Packaging	NEMA 4 environmental enclosure for indoor or outdoor deployment

ENVIRONMENTAL

Temperature Range	-35 to 55 °C
Humidity	0-100%

AVAILABLE OPTIONS

Power Tap	Cable Assembly Photo Cell Power Adapter
DC Input	EWR6300 with 5V DC input available
Antenna	Ask your sales representative for other antenna options



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