MWR6300 MESHNETWORKS WIRELESS ROUTER

GENERAL DESCRIPTION

The MeshNetworks Wireless Router (MWR) is a small, low-cost, wireless device that is primarily deployed to guarantee wireless coverage in large geographic areas, campuses or in-building applications. It enables non-line-of-sight communications between Clients and Intelligent Access Points (IAP), in a MeshNetworks Enabled Architecture (MEA) mobile broadband network. Wireless Routers are typically used to seed new network deployments to ensure sufficient coverage while the client population is growing.

MeshNetworks Wireless Routers Also Provide

- Range extension between the client and IAPs
- Fixed reference points for geo-location services
- Provide coverage in hotspot/in-building applications

FEATURES AND BENEFITS

Compact & Low Cost
Wireless Routers use the same transceiver technology developed for MeshNetworks' Wireless Modem Cards (WMC). This creates a compact, low-cost solution for range extension and non-line-of-sight operation.

Easy to Install and Deploy
Wireless Routers are designed to mount on utility poles, billboards, buildings, etc. Simple mounting hardware and a plug-in power connection speeds deployment - no special training or skills are required. They automatically power-up and integrate into the network. No manual provisioning or configuration is needed.

Supports End-to-End Industry Standard IP
As one part of the MEA solution, MeshNetworks Wireless Routers transparently support end-to-end, standards-based Internet Protocol (IP) applications and devices.

Automatic Network Balancing
MeshNetworks' Wireless Routers intelligently balance traffic between client demand and network resources. Clients are routed around local congestion, while Multi-Hopping technology enables capacity from distant 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
MeshNetworks Wireless Routers enable non-line-of-sight communications between clients and IAPs, as well as between clients in peer-to-peer networking mode. Wireless Routers act as hopping points for any transmission, and work in concert with IAPs to form a distributed network infrastructure.

Over-the-Air Software Updates
New features and services can be added to MeshNetworks' Wireless Routers via over-the-air software downloads.

CONTACT INFORMATION

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MESH NETWORKS

PRODUCT SPECIFICATIONS

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	10W Maximum at 120v AC
Power Requirements	90-264v AC 47-63 Hz Single Phase
Power Cord	MeshNetworks' NEMA 5-15 Power Cord (6ft)

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

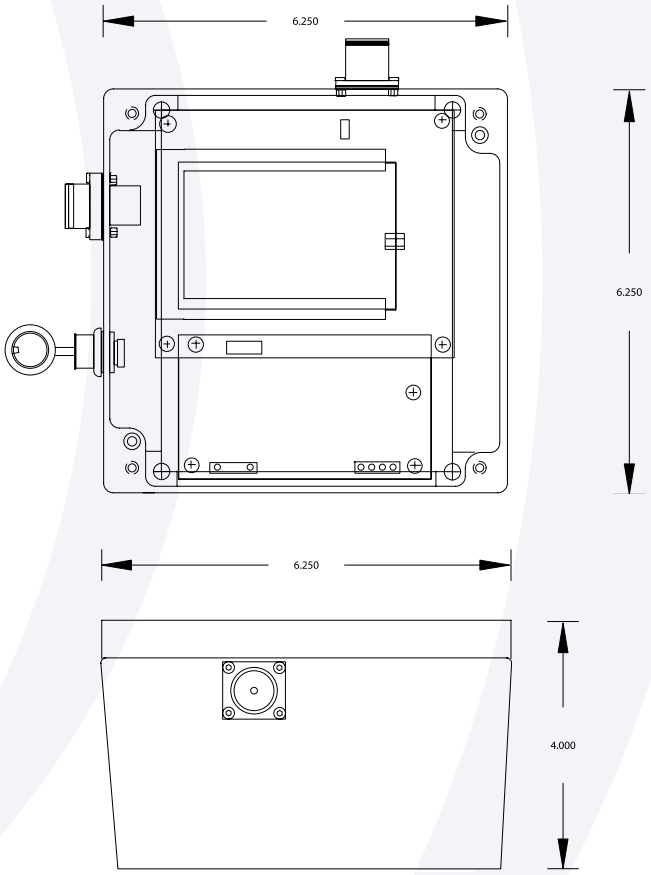
Dimensions (without antenna)	6.25" x 6.25" x 4" (15.9cm x 15.9cm x 10.2cm)
Weight	3.5 lbs (1.59kg)
Packaging	NEMA 4 environmental enclosure for indoor or outdoor deployment

ENVIRONMENTAL

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

AVAILABLE OPTIONS

Power Tap	Cable Assembly Photo Cell Power Adapter
DC Input	MWR6300 with 5V DC input available
Antenna	Ask your sales representative for other antenna options



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