

PWR6300 PORTABLE WIRELESS ROUTER

GENERAL DESCRIPTION

The Portable Wireless Router (PWR) provides wireless network access to one or more Internet Protocol (IP) devices via a standard, RJ45 Ethernet port, while also providing wireless access over large geographic areas.

The PWR efficiently combines the functionality of a MeshNetworks Wireless Router and subscriber 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, 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.

Portable 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 functionality of a Wireless Router and Subscriber modem in a single device, network equipment and deployment costs are significantly reduced.

Rapid Installation and Deployment

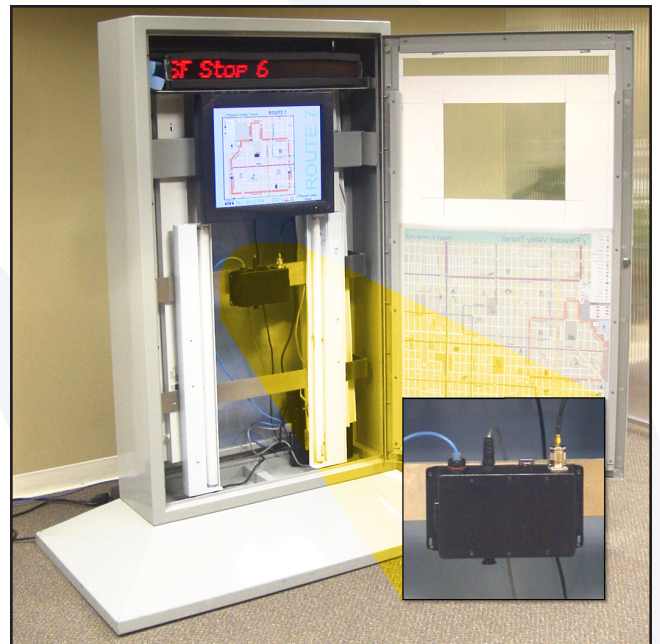
PWRs are designed as an infrastructure device to be positioned in a fixed location within a weatherproof enclosure, such as a traffic control cabinet or outdoor kiosk. Simple mounting hardware, plug-in power and Ethernet connectivity speeds deployment. No special training or skills are required. The PWR automatically powers-up and integrates into the network.

Multiple IP Address Support

The PWR supports three IP addresses, allowing a network of end-user devices to be addressed and managed over the MEA network. By adding a NAT router, four or more devices can be supported.

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

MeshNetworks' PWR 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

Portable Wireless Routers act as hopping points for wireless data packets, and work in concert with IAPs to form a distributed network infrastructure. The PWR 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

PHONE	(407) 659-5300
FAX	(407) 659-5301
EMAIL	info@meshnetworks.com
MAILING ADDRESS	MeshNetworks, Inc. P.O. Box 948133 Maitland, FL 32794-8133

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PRODUCT SPECIFICATIONS

GENERAL INFORMATION

Data Rate	1.5 to 6 Mbps burst, depending on configuration
Certifications (All Pending)	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	Rx 1.0 amp / Tx 1.5 amp
Power Requirements	12V DC
Power Cord	12V DC with 2 amp, in-line fuse / 15 feet of 18 AWG wire
Power Cable Connectors	End 1: Switchcraft EN3C2F End 2: Molex 19121-009 Spade Lug

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 Connector	N-Type

PHYSICAL

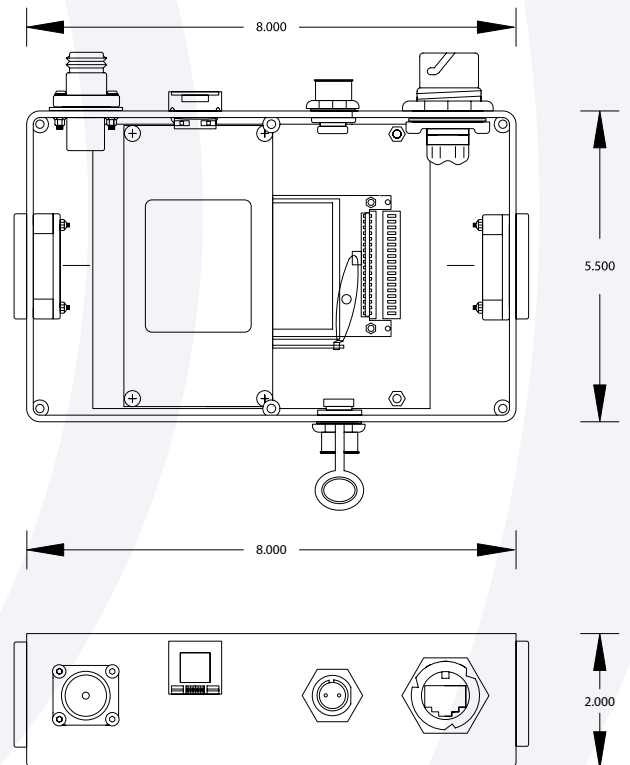
Dimensions	8" x 5.5" x 2" (20.3cm x 14cm x 5cm)
Weight	1.8 lbs (816g)
Packaging	Designed to meet IP54

ENVIRONMENTAL

Temperature Range	-35 to 60 °C
Humidity	0-100%

AVAILABLE OPTIONS

Antenna	Magnetic Mount 0 dBi Magnetic Mount 3 dBi
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MeshNetworks, MeshNetworks Enabled Architecture, MEA, Intelligent Access Point, IAP, IAP6300, MWR6300, WMC6300, EWR6300, VMM6300, PWR6300, MN2064A, MeshConnex, MeshConnex Core, MeshConnex Access, Continuous Meshing Capability, CMC, MeshNetworks Scalable Routing, MSR, MeshDK, MeshManager, Mobile Internet Switching Controller, MiSC, QDMA, and Multi-Hopping are trademarks of MeshNetworks, Inc.

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