

# 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

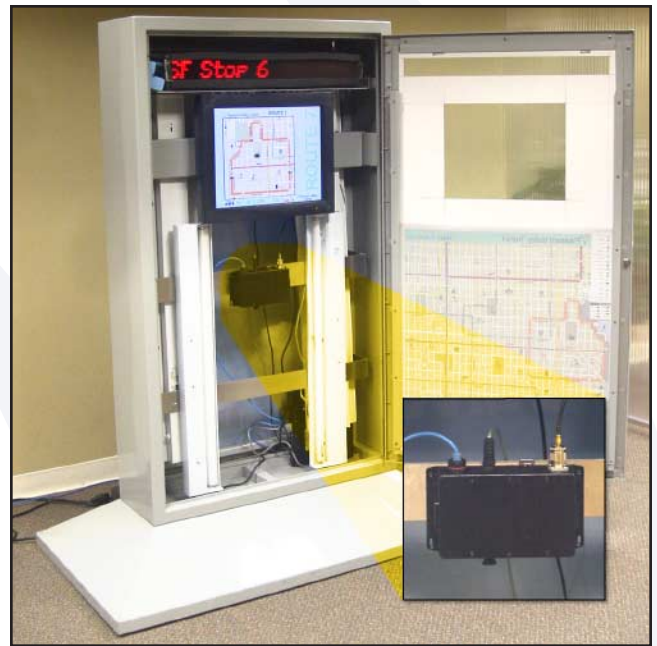
PWRs are designed as an infrastructure device to be positioned in a fixed location within a weatherproof enclosure, such as a traffic control cabinet or outdoor kiosk. Simple mounting hardware, plug-in power and Ethernet connectivity speeds deployment. No special training or skills are required. The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

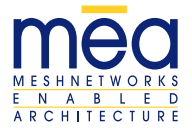
## CONTACT INFORMATION

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# PRODUCT SPECIFICATIONS



## GENERAL INFORMATION

<b>Data Rate</b>	1.5 to 6 Mbps burst, depending on configuration
<b>Certifications (All Pending)</b>	US-FCC Part 15 RSS-210
<b>Safety Certifications</b>	IEC 60950 EN 60950 EN 60215 CSA C22.2 No. 60950-00010
<b>CE Mark</b>	ETSI EN 300 328 V 141 ETSI EN 301 489-1 ETSI EN 301 489-17 EN 55022:1998 EN 55024:1998
<b>Power Consumption</b>	Rx 1.0 amp / Tx 1.5 amp
<b>Power Requirements</b>	12V DC
<b>Power Cord</b>	12V DC with 2 amp, in-line fuse / 15 feet of 18 AWG wire
<b>Power Cable Connectors</b>	End 1: Switchcraft EN3C2F End 2: Molex 19121-009 Spade Lug

## NETWORK INFORMATION

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

## RADIO

<b>Output Power</b>	Up to 25 dBm
<b>RF Modulation</b>	QDMA
<b>Operating Frequency</b>	2.4 GHz - 2nd ISM band
<b>Antenna Connector</b>	N-Type

## PHYSICAL

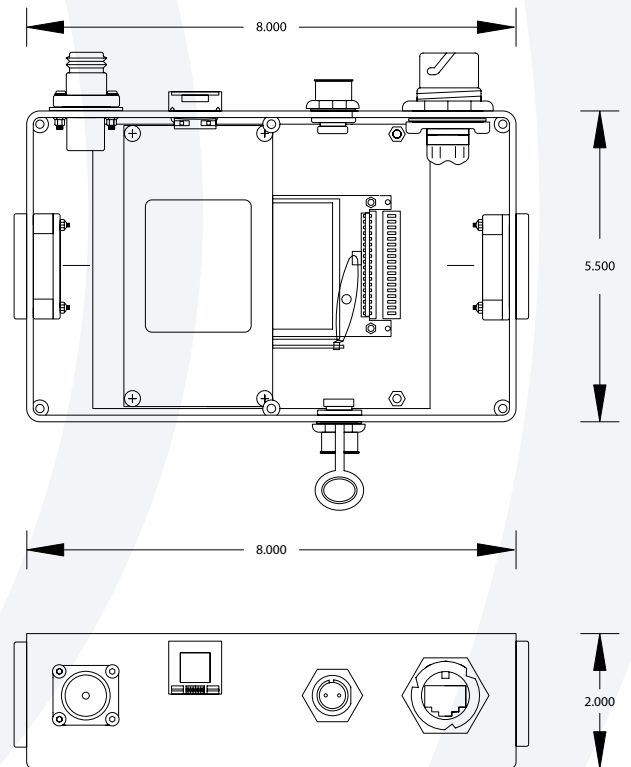
<b>Dimensions</b>	8" x 5.5" x 2" (20.3cm x 14cm x 5cm)
<b>Weight</b>	1.8 lbs (816g)
<b>Packaging</b>	Designed to meet IP54

## ENVIRONMENTAL

<b>Temperature Range</b>	-35 to 60 °C
<b>Humidity</b>	0-100%

## AVAILABLE OPTIONS

<b>Antenna</b>	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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