

# 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 MEA 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 Mesh 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 functionality 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

mobile broadband  
network solutions



The 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

PHONE (407) 659-5300  
FAX (407) 659-5301  
EMAIL [info@meshnetworks.com](mailto:info@meshnetworks.com)

MAILING ADDRESS Motorola  
P.O. Box 948133  
Maitland, FL 32794-8133

WEB SITE [www.Motorola.com](http://www.Motorola.com)



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# PRODUCT SPECIFICATIONS

## GENERAL INFORMATION

<b>Data Rate</b>	1.5 to 6 Mbps burst, depending on configuration
<b>Certifications</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>	12W Maximum at 120v AC
<b>Power Requirements</b>	90-264v AC 47-63 Hz Single Phase
<b>Power Cord</b>	NEMA 5-15 Power Cord (6ft)

## 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 Type</b>	Omnidirectional, up to 8 dBi
<b>Antenna Connector</b>	N-Type

## PHYSICAL

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

## ENVIRONMENTAL

**Temperature Range** -35 to 55 °C

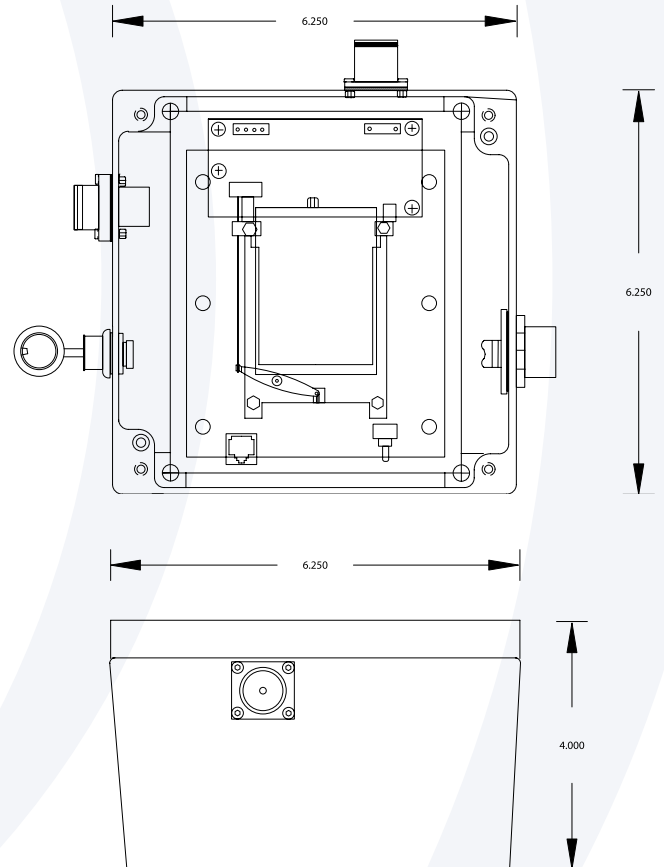
**Humidity** 0-100%

## 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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