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 overthe-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

PHONE (407) 659-5300 **FAX** (407) 659-5301

EMAIL info@meshnetworks.com

MAILING MeshNetworks, Inc. ADDRESS P.O. Box 948133

Maitland, FL 32794-8133





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 12W Maximum at 120v AC

Power 90-264v AC

Requirements 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 3 Assignable IP addresses - **Network Devices** 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 6.25" x 6.25" x 4"

(without antenna) (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











