

MWR6300 MESH Wireless Router

Mobile Broadband Network Solutions

FACT SHEET



Motorola's MESH wireless networking technology creates an instant, ad hoc broadband network with other users, giving everyone high speed data access with mission critical applications - anywhere, anytime. Real-time information delivered over MESH's ad hoc network or via existing infrastructure informs, alerts and enables users to optimise their response.



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

MESH wireless routers also provide:

- Range extension between the client device and IAP's
- Fixed reference points for position and location services
- Provide coverage in hotspot/in-building applications

FEATURES AND BENEFITS

Compact and low cost

Wireless Routers use the same transceiver technology developed for Motorola's Wireless Modem Cards (WMC6300). This results in a compact, low-cost solution for range extension and non-line-of-sight operation.

Easy to install and deploy

Wireless Routers are designed for simple and adaptable mounting on existing infrastructure such as utility company poles, advertising billboards or on the sides or roofs of buildings. Simple mounting hardware and a plug-in power connection speeds deployment - no special training or skills are required. When deployed, Wireless Routers 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, MESH Wireless Routers transparently support end-to-end, industry standards-based Internet Protocol (IP) applications and devices.

Over-the-air software updates

New features and services can be added to the MWR6300 using software downloaded over-the-air.

Automatic network balancing

MESH Wireless Routers intelligently balance traffic between client device demand and network resources. Client devices 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 utilisation is continually optimised, reducing network and operational expenses.

Enables non-line-of-sight networking

MESH Wireless Routers enable non-line-of-sight communications between client devices and IAP's, 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 IAP's to form a distributed network infrastructure.





PRODUCT INFORMATION

General Specifications

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 301 489-1

ETSI EN 301 489-17

Power Consumption 10W Maximum at 120V AC

Power 90-264V AC

Requirements 47-63 Hz Single Phase

Power Cord NEMA 5-15 Power Cord (2m)

Radio

Output Power Up to 25 dBm

RF Modulation QDMA

Operating Frequency 2.4 GHz - 2nd ISM band

Antenna Type Omnidirectional, up to 8 dBi

Antenna Connector N-Type

Physical

Dimensions (without antenna) 76mm x
115mm x 146mm

Weight 1.18kg

Packaging NEMA 4 environmental enclosure for
indoor or outdoor deployment

Environmental

Temperature Range -35 to 55 °C

Humidity 0-100%

Available Options

PowerTap Cable Assembly

Photo Cell Power Adapter

DC Input MWR6300 with 5-14V DC input
available

Antenna A variety of antenna options are
available. More information is available on request.



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