WMC6300 WIRELESS MODEM CARD

GENERAL DESCRIPTION

MeshNetworks offers a complete Wireless Modem Card (WMC) in a PCMCIA form factor. By simply inserting the wireless modem card, up to 6 Mbps burst data rates for streaming audio and video, fast and accurate position location, and voice services can be added to any device with a PCMCIA card slot.

Wireless Modem Cards can also act as Wireless Routers in a MeshNetworks Enabled Architecture (MEA) mobile broadband network. This increases network robustness and coverage at no additional cost.

Finally, clients with Wireless Modem Cards can instantly form Multi-Hopping ad hoc, peer-to-peer, broadband networks without using any network infrastructure.

FEATURES AND BENEFITS

6 Mbps Burst Rate Mobile Broadband Networking
Clients get up to 6 Mbps burst rate for voice, video and data. High-bandwidth applications, such as web browsing, imaging, telemetry and high-quality streaming audio are just a few of the many new mobile services MeshNetworks enables.

High Quality Voice and Video Services
The Wireless Modem Card adds real-time voice and video services to a wide range of devices.

Position Location and Navigation Services
The wireless modem card adds position location capabilities, without relying on costly GPS. In fact, location is typically quicker and more accurate than consumer GPS. MeshNetworks provides location data in a standard GPS format so that applications that operate with GPS data interact seamlessly with the Wireless Modem Card.

Managed Network Elements
Wireless Modem Cards are managed network elements. Performance, configuration and status are all available and manageable over-the-air. Network and client parameters can be collected or set by the network operator or administrator via MeshManager software.

Create Peer-to-Peer Networks Anywhere
Client devices with MeshNetworks' Wireless Modem Cards can form their own peer-to-peer network - anywhere, anytime. A high-speed broadband network will automatically form between authorized devices, even in places where there is no network infrastructure. Companies, families, and communities-of-interest can establish private and effortless group communications.

End-to-End Industry Standard IP Support
A MEA network supports end-to-end, standards-based Internet Protocol (IP), so any IP-based application or IP-capable device works seamlessly within the network. No modifications or special gateways are needed.

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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MESH NETWORKS

PRODUCT SPECIFICATIONS

mea MESHNETWORKS ENABLED ARCHITECTURE

GENERAL INFORMATION

Data Rate	1.5, 3 and 6 Mbps burst modes
Certifications	US-FCC Part 15 IEC 60950 EN 60950 EN 60215 CSA C22.2 No. 60950-000 RSS-210
Current Consumption	Receive 450 mAmps Transmit 1 Amp
Host Interface	PCMCIA

NETWORK INFORMATION

Network Architecture	Peer-to-Peer Multi-Hopping

DEVICE DRIVER

Supported Operating Systems	Windows 2000 Windows XP Pocket PC 2002

RADIO

Chipset	MeshNetworks MN2064A
Output Power	Nominal 23 dBm
RF Modulation	QDMA
Operating Frequency	2.4 GHz - 2nd ISM band
Antenna Type	Remotely Locatable Omnidirectional
Antenna Connector	MMCX

PHYSICAL

Dimensions	3.37” x 2.126” x 0.19” (8.6cm x 5.4cm x 0.5cm)
Weight	1.13oz (30.8g)
LED Indicators	Transmit & Receive

ENVIRONMENTAL

Temperature Range	-35 to 55 °C
Humidity	0-90% (Non-Condensing)

AVAILABLE OPTIONS

Antenna	Magnetic mount antenna for vehicles

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