VMM6300 VEHICLE MOUNTED MODEM

GENERAL DESCRIPTION

Compact and ruggedly designed, the Vehicle Mounted Modem (VMM) turns a vehicle into a mobile office. Mobile Data Terminals (MDT), IP video cameras, and other IP ready devices can access a high-speed, MeshNetworks Enabled Architecture (MEA) mobile broadband network via a standard RJ45 Ethernet Port. This low cost, high performance, wireless modem supports up to 6 Mbps burst data rates at speeds of over 100 mph.

The VMM provides high bandwidth access to mission-critical information on the move. Remote database inquiries, on-scene report submission, multi-megabyte file transfers and live video streams will make field personnel more efficient. The VMM also supports real-time position location without relying on GPS.

Like all MEA products, the VMM acts as a wireless router/repeater - automatically extending the range, robustness and performance of the wireless network.

FEATURES AND BENEFITS

Symmetric Burst Data Rates of up to 6 Mbps
Unlike other mobile broadband technologies that provide limited uplink speeds, the VMM supports up to 6 Mbps burst rates for uploads and downloads. Photographs and live video can be sent from vehicles in the field to other users or remote operations centers.

End-to-End Industry Standard IP Support
MEA networks support end-to-end, standards-based Internet Protocol (IP). Any IP based application or IP capable device works seamlessly in the MEA network, including FIPS 140 compliant VPNs. The VMM supports three IP addresses, allowing a network of in-vehicle devices to be addressed and managed wirelessly.

Engineered for Data on the Move
Designed for heavy-duty use in commercial and public vehicles, this rugged and compact device is made to withstand heat, shock and vibration. The VMM operates on 12V DC nominal (9 to 16V DC), and can be mounted in any orientation for maximum placement flexibility.

Create Peer-to-Peer Networks Anywhere
Vehicles can instantly form peer-to-peer networks with other mesh-enabled devices. A high-speed, broadband network will automatically form between users, even in places where no MEA network infrastructure exists.

Built in Position Location Capabilities
Position location is available within a MEA network, including places where GPS doesn't work - such as urban canyons. MeshNetworks provides location data in a standard GPS format, allowing applications that operate with GPS information streams to interact seamlessly with the VMM.

Over-the-Air Network Management
Every MEA product is a managed element within the network. New features and services can be added via over-the-air software uploads. End-to-end IP support also enables IT managers to download and update client software wirelessly, greatly simplifying software maintenance procedures.

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

mobile broadband network solutions

MESH NETWORKS

© 2004 MeshNetworks, Inc • ALL RIGHTS RESERVED

PRODUCT SPECIFICATIONS

mēa MESHNETWORKS ENABLED ARCHITECTURE

GENERAL INFORMATION

Data Rate	1.5 to 6 Mbps burst, depending on configuration
Certifications (All Pending)	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	Rx 1.0 amp / Tx 1.5 amp
Power Requirements	12V DC
Power Cord	12V DC with 2 amp, in-line fuse / 15 feet of 18 AWG wire
Power Cable Connectors	End 1: Switchcraft EN3C2F End 2: Molex 19121-009 Spade Lug

NETWORK INFORMATION

Network Management	MeshManager via SNMP
Network Interface	10/100 Mbps Ethernet, RJ45
Configurable Network Devices	3 Assignable IP addresses - 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 Connector	N-Type

PHYSICAL

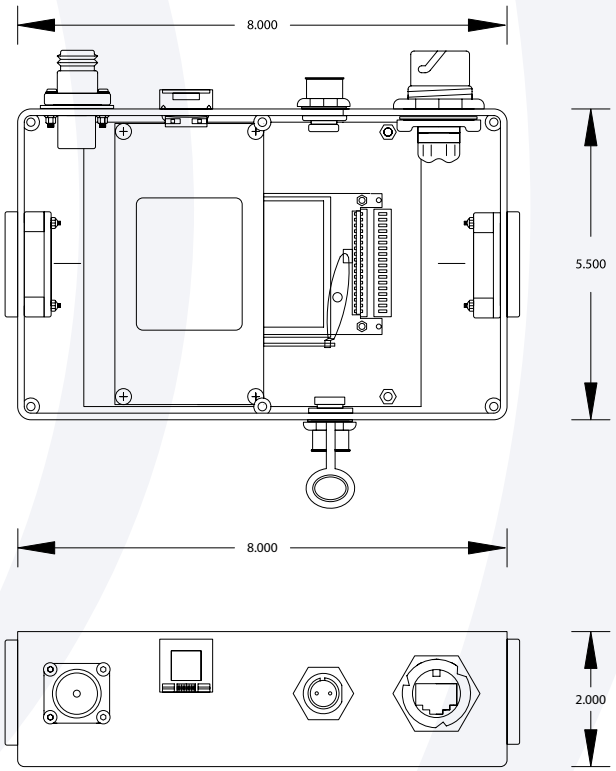
Dimensions	8” x 5.5” x 2” (20.3cm x 14cm x 5cm)
Weight	1.8 lbs (816g)
Packaging	Designed to meet IP54

ENVIRONMENTAL

Temperature Range	-35 to 60 °C
Humidity	0-100%

AVAILABLE OPTIONS

Antenna	Magnetic Mount 0 dBi Magnetic Mount 3 dBi



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.

mobile broadband network solutions

MESH NETWORKS

© 2004 MeshNetworks, Inc • ALL RIGHTS RESERVED • PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE