

MMT9000 Starter Kit

900 MHz Unlicensed

Nomadic Wireless Terminal

www.vecimanetworks.com

The WaveRider MMT9000 Starter Kit by Vecima Networks is designed to enable operators to evaluate the capabilities and performance of the MMT9000, the first component of the Nomadic Wireless family to be released. The MMT9000 addresses the need for high speed mobile communications and is ideal for public security, utility, military and first responder applications.

Developed and manufactured by Vecima Networks, the WaveRider Nomadic Wireless system operates in the 900 MHz ISM band and enables mobile, field deployable wireless access networking. The Nomadic Wireless system delivers nomadic broadband access without requiring a significant investment in infrastructure and equipment. The MMT9000 is simple to set up and configure, and includes a compact form factor for easy vehicular installation. The system is a cost effective solution that can be deployed rapidly and is suitable for temporary or permanent installations where high speed voice, video or data services are required.

MMT9000 Starter Kit includes:

- Two MMT9000 Nomadic Wireless Terminals
- One CCU3100 Base Station
- Two 7 dBi mobile antennas with magnetic mounts
- Priority Email Support for 3 months

Only \$3,495 (USD)

Order SKU WR600-4000



MMT9000 Highlights:

- Over-the-air data rates of 2.75 Mbps and access speeds of 2 Mbps
- Supports voice, video and data communications
- Enables end-user mobility; suitable for in-vehicle installations
- Extended temperature range of -40° C to 50° C
- Superior 900MHz non-line-of-sight performance
- Reliable, secure, easy to deploy
- Compatible with WaveRider LMS4000 900MHz systems
- 27.3 dBm PEAK transmit power
- -89 dBm (BER<10⁻⁶) receiver sensitivity



Radio Specifications

Operating Frequency	902 to 928 MHz
Radio Access	DSSS w/ Dynamic Polling MAC
Radio Modulation	Complementary Code Keying (CCK)
Peak Output Power	+27 to +16 dBm at antenna port (software selectable)
RF Rx Threshold	-89 dBm (BER<10 ⁻⁶) at antenna port, not including antenna gain
Minimum/Maximum Center Channel Frequency	905/925 MHz
Channel Bandwidth	5.5 MHz
Center Frequency Spacing Increment	0.2 MHz
Orthogonal Channels	4
Orthogonal Channel Separation	6.6 MHz
Channel Selection	Nomadic, Auto, RADIUS, Static
Panel LED's	Signal Level (DC Power), Ethernet Link, Ethernet Traffic
Data Type	IP with QoS for VoIP
User Access Protocols	Telnet w/ Password
Management Protocols	RADIUS, DHCP, SNMP, NTP, ftp, Telnet

Radio Performance

Signaling Rate	2.75 Mbps
User Data Rate	Up to 2.0 Mbps (user-definable)
Nomadic sector switching time (typical)	2 sec. (Depends on Network Design)

Power Specifications

Power Supply Input	+12 VDC (10.5 to 17 VDC)
Ignition Sense	+12 VDC
Fuse (included)	2 Amp automotive blade with IP67 Holder, 12-inch (30.5 cm) leads
Power Consumption (typical)	10W

Interface Specifications

Data Connection Ethernet	10BaseT RJ-45 HDX Jack
Data Cable Length (max)	330 feet (100 m)
DC Connection	4-pin Conxall 73804PG300 (B+, B-, IGN Sense, Chassis GND)
DC Cable (included)	18-feet (5.5 m), 4-wire, 18 AWG, Conxall 63804SG519 (Automotive Rated)
RF Connection	Standard SMA-female
Ground post on front panel	#10-32 Thread w/ Nut, Washer, Terminal Lug #12-10

Dimensions

Unit L x W x H	6 x 5.75 x 2 inches (15.2 x 14.6 x 5.1 cm)
Mounting Space L x W x H	8.5 x 7.25 x 2.25 inches (21.6 x 14.6 x 5.7 cm)
Mounting brackets	Attached; shock absorbing; 0.25 in. (6.4 mm) mounting holes
Weight	3 lb (1.4 Kg)
Materials	Aluminum extrusion

Environmental Specifications

Operating Temperature	-40° C to 50° C
Storage Temperature	-40° C to 70° C
Operating Humidity	0% to 95% RH (non-condensing @ 50° C)
Environments	Designed for automotive conditions Shock & Vibration to MIL-STD-810F Wheeled Vehicle Profile Exceeds ETSI EN 300 019-2-5

Approvals

Radio Transmitter	FCC Class A, CFR 47 Part 15, FCC Industry Canada RSS-102 and RSS-210
Safety	UL, CSA

Vecima Networks' Continuous Improvement Policy means that specifications are subject to change without notice.



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