



PRODUCT SPECIFICATION COMMUNICATOR 1000

- Supports HSUPA/EDGE or EvDO Rev-A
- 802.11b/g Wireless LAN Support
- Multiple Interface Options
- Embedded AVL and GPS Functionality

The Wireless Matrix Communicator 1000 is a high-speed, easy-to-install, Secure Mobile Hotspot available with either GSM or CDMA cellular technology. This future-proof, state-of-the-art device provides router functionality between 802.11b/g, cellular, and a variety of local interfaces, including a Satellite Sidecar™ port for seamless connectivity with Wireless Matrix satellite products. The Communicator 1000 reduces fleet operational costs by tracking and improving vehicle-centric metrics such as driver performance and safety behavior via Wireless Matrix's FleetOutlook® web application. At the same time, the Communicator 1000 improves workforce productivity by enabling high-speed Internet/Intranet communications from a laptop or other computing device – all on a single wireless plan.

Cellular

- HSUPA/EDGE
 - Downloads up to 7.2 Mbps
 - Uploads up to 2.0 Mbps, capable of 4.5 Mbps with future firmware
- EvDO Rev-A
 - Downloads up to 3.1 Mbps
 - Uploads to 1.8 Mbps

Wireless LAN

- Super G 802.11b/g with full 54 Mbps speed, capable of 108 Mbps with future firmware
- WPA2 Security with EAP-TLS, EAP-PSK, PEAP, EAP-FAST
- High power for superior range
- Ad-Hoc, Infrastructure and Access Point Modes

GPS Receiver

- State-of-the-art 50-channel receiver with -160 dBm sensitivity
- Accuracy: <2.5m (CEP)
- Rapid Acquisition typically < 3 secs
- NMEA feed from any IP-based port

Future-Proof Design

- Supports 4G broadband (LTE, WiMAX)
- All communications modules are accessible/upgradeable via an access panel
- Spare PCI Express Mini Card slot available for future expansion capabilities
- 8 external expansion connections
- 1 internal expansion board

Interface options

- 2 USB host ports
- 1 mini USB device port
- 1 RS232 test port
- 2 RS232 8 wire serial ports
- 1 Ethernet port (10/100)
- 4 digital inputs, 4 digital outputs (2 high Vin, 2 low)
- 1 Analog Input
- Switched 5V line for accessory power

Optional

- Security covers/mounting bracket

Certifications

- AT&T GSM
- Verizon Wireless CDMA

Wireless Matrix Features

- Satellite Sidecar™ enables seamless connectivity with Wireless Matrix Multi-Network Routing and Satellite products
- Wireless Matrix's WDHCP for dynamic driver-to-vehicle association
- Compatible with applications using Wireless Matrix's MBS1000, MBS2 and SDM5000
- Automated over-the-air firmware updates and configuration
- State-of-the-art vehicle location features with built-in AVL application

Advanced Power Modes

- Input Voltage: 9-36 VDC
- Sleep (<50 mA)
 - Wake from activity on Digital Inputs, RS232, RTC alarm, call over cell network (if supported by network)
- Fully Active: 500 mA typ, 3.5 A peak

Protocols/Network Interfaces

- PPP, Mobile IP, DHCP
- Telenet for remote access
- Router functionality including NAT, NAPT, Port Forwarding, Firewall
- SSL for secure AVL

Frequencies

- Cellular: 850, 900, 1800 and 1900 MHz
- 802.11b Wireless LAN: 2.4 GHz

Physical Characteristics

- Approximately 6" x 4" x 1.5" excluding mounting tabs
- Tamper indicating labels
- Rugged aluminum construction
- -25°C to +60°C operating temperature range
- All connectors located on one side for flexible installation
- LED Indicators on both front panel and top of unit for monitoring and diagnostics
 - Cellular, 802.11, GPS and Power



WIRELESS
MATRIX

For more information about this product or any of our products and services, please contact Wireless Matrix.

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