PUBLIC SAFETY LTE

VML700 LTE VEHICLE MODEM

Public Safety LTE gives government personnel the most advanced wireless broadband technology, providing the speed, priority, control, security and performance they need. The VML700 LTE Vehicle Modem connects the patrol car, fire apparatus or command vehicle to an LTE network, bringing the benefits of wireless broadband to the vehicle.

For many public safety personnel, the patrol car is the office. The modern public safety vehicle is a mobile center for information gathering and sharing. Dispatch data, suspect photos, incident video, blueprints, hazmat, GPS location, reports, telematics, email, and records searches are among the many types of data sent and received from the vehicle every day.

Designed for the harsh environments of public safety vehicles, the VML700 LTE Vehicle Modem is a solid-state device capable of withstanding vibration, humidity, temperature extremes and other challenges encountered in the field. Mounted in the trunk or passenger compartment, it provides broadband wide-area network connectivity to devices in and around the vehicle.

KEY BENEFITS

- Connects a public safety vehicle to a Band Class 14 LTE network
- Support for Verizon Wireless 4G LTE (Band Class 13) and 3G EVDO networks provides access to nationwide wireless data coverage
- Can be homed on a Public Safety LTE or Verizon 4G LTE network
- 802.11b/g/n access point functionality creates a mobile hot spot for nearby Wi-Fi devices
- Roof-mounted external antennas with Multiple-In Multiple-Out (MIMO) configuration extend range and performance
- Built-in GPS enhances personnel safety with tracking and location-based solutions
- Solid-state, rugged vehicle modem withstands heat, cold, rain, humidity, dust and vibration

SPECIFICATIONS

LTE

Release	3GPP Release 8 3GPP Release 9*
Band Class	700 MHz Band Class 14 700 MHz Band Class 13
Output Power	19 dBm effective radiated power (ERP)
Bandwidth	5 MHz, 10 MHz
Modulation	QPSK, 16QAM uplink QPSK, 16QAM and 64QAM downlink

EVDO

Band Support	EVDO Rev. A Band Class 0, Band Class 1
Band Class 0 ERP	23 dBm
Band Class 1 ERP	23 dBm
Total Radiated Power (TRP)	20 dBm
Modulation	1xRTT: QPSK EVDO Rev 0: QPSK, 16QAM EVDO Rev A: QPSK, 16QAM

WI-FI

Band Support	802.11b/g/n 2.4 GHz Device can act as access point or client
Range	164 ft (50 m) line-of-sight
Wired Connectivity	1 Ethernet port (10/100 Mbps, RJ-45) 1 USB 2.0 port
GPS	SiRFstarIII™-based Autonomous GPS 1 external antenna Supports NMEA, TAIP

ANTENNA CONFIGURATION

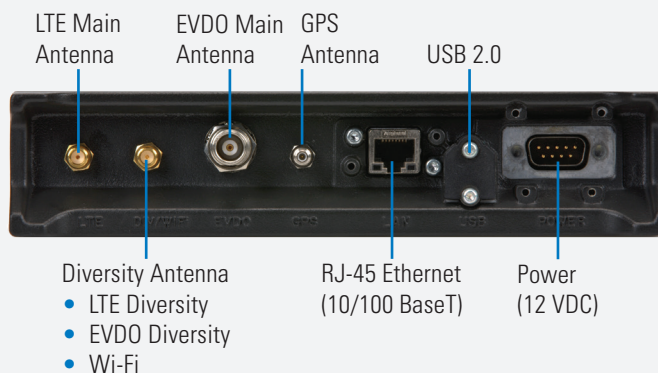|	
Main Antenna Housing	Single sheath contains 3 external antennas: • LTE main • EVDO main • GPS
Diversity Antenna	Second antenna provides the following functions: • LTE diversity • EVDO diversity • Wi-Fi
Maximum Antenna Height	17 in (43 cm), measured from mounting surface

PHYSICAL CHARACTERISTICS

Dimensions	8.1 x 7.9 x 1.8 in (205 x 200 x 45 mm)
Weight	5.5 lbs (2.5 kg)
Operating Temperature	-22°F to 140°F (-30°C to 60°C)

MANAGEMENT AND SUPPORT

Remote Configuration and Management	Field-upgradable via OTAP (over-the-air programming). Compatible with Motorola Mobility Services Platform (MSP) software.
Operating System Compatibility	Configuring, controlling, and operating the modem requires software running on one of the following operating systems: Microsoft® Windows® 7 Microsoft Windows XP Additional client devices running many operating systems can be connected to the VML700 modem over Ethernet or Wi-Fi.
Environmental and Regulatory	FCC 47 Part 27, 15, 90 Safety EN60950-1 W18 Section 2 RoHS Directive 2002/95/EC
Carrier Certifications	Verizon Wireless
Power	12.0 - 13.8 VDC
Durability	IP54 (protected against dust and splashing water)
Warranty and Service	One year limited warranty Available Service from the Start support program • Extends warranty to 2 or 3 years • Covers defects and normal wear and tear • Delivers technical support response within 4 hours • Reduced repair turnaround time

PORTS

LTE Main Antenna
EVDO Main Antenna
GPS Antenna
USB 2.0

Diversity Antenna
• LTE Diversity
• EVDO Diversity
• Wi-Fi

RJ-45 Ethernet (10/100 BaseT)

Power (12 VDC)

MOTOROLA