The VML750 Vehicle Modem harnesses the power of public carrier 4G LTE as well as public safety band 14 LTE, providing the speed, priority, control, and security that government agencies and utilities require. With the ability to fall back from 4G to 3G seamlessly and aggressively reselect to Band 14 during roaming, it ensures optimal coverage and performance at all times.

The VML750 is ruggedized to withstand heat, cold, rain, humidity, dust and vibration. With flexible mounting options, it can be installed in a patrol car, fire apparatus, command vehicle, ambulance, mass transit bus, school bus, or utility truck.

A Wi-Fi® hotspot for up to 30 clients turns the vehicle into a wireless hub and a built-in GPS component can be used for location tracking and route optimization.

Some of the key data applications enabled by the VML750 include CAD incidents, photos, video, blueprints, biometrics, GPS location, reports, telematics, email, and record searches.

**KEY BENEFITS**

- Connect the vehicle to Verizon or AT&T 3G/4G LTE and Band 14
- Seamlessly fallback from private network to 4G if outside of coverage
- Aggressive reselect to Band 14 when roaming on Verizon or AT&T
- VPN client for added security
- Two-branch diversity downlink antenna configuration for maximum range and performance
- Built-in GPS enhances personnel safety and route optimization
- Solid-state, ruggedized design withstands heat, cold, rain, humidity, dust and vibration

**PUBLIC SAFETY LTE**

**VML750 LTE VEHICLE MODEM**

**PRODUCT SPECS SHEET | VML750 LTE VEHICLE MODEM**
### 4G LTE

**Release**: 3GPP Release 9

**Band Class**
- Public Safety
  - Band 14
- Public Carrier
  - Band 2
  - Band 4
  - Band 5
  - Band 13
  - Band 17

**Power Class**: 3

**Modulation**: QPSK, 16QAM uplink
- QPSK, 16QAM and 64QAM downlink

### 3G

**Band Support**:
- EVDO Rev. A Band 0, Band 1, Band 10
- UMTS 2,5

**Power Class**: 3

**Modulation**: 1xRTT: QPSK
- EVDO Rev 0: QPSK, 16QAM
- EVDO Rev A: QPSK, 16QAM

### CONNECTIVITY

**Wi-Fi Connectivity**: 802.11b/g/n 2.4 GHz
- Device can act as access point or client with Geo-Fencing auto switch
- Up to 30 Wi-Fi devices
- Range: Up to 164 ft (50 m) line-of-sight

**Wired Connectivity**: 1 Ethernet port (10/100 Mbps, RJ-45)
- 1 USB 2.0 port OTG

**WLAN Security**: WPA, WPA 2, WPA-PSK and WPA-EAP

**GPS**: Autonomous GPS
- 1 external antenna
  - Supports NMEA, TAIP

### ANTENNA CONFIGURATION

**Main Antenna Housing**: Single sheath - Contains 3 antennas for:
- WWAN1 LTE Main, WWAN1 DIV/Wi-Fi and GPS

**Diversity Antenna**: Low Profile - WWAN2 LTE Main, WWAN2 LTE DIV

### 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**: OMA-DM compliant.
- Field-upgradable via OTAP (over-the-air programming)

**Operating System Compatibility**: Configuring, controlling, and operating the modem requires software running on Microsoft® Windows® 7 or later
- Additional client devices running many operating systems can be connected to the VML750 modem over Ethernet or Wi-Fi.

**Security**: Optional CRYPTR FIPS-140-2 compliant microSD
- Security storage module
- VPN IPSEC Tunneling

**Warranty and Service**: Essential support choice for 2 and 3 years:
- Covers defects and normal wear and tear
- 5-day turnaround time in the repair depot
- Essential with enhanced comprehensive support:
  - Covers liquid, chemical, and physical damage
  - 3-day repair turnaround time in the repair depot

### CERTIFICATION

**Environmental and Regulatory**: FCC 47 Part 15, 22, 24 27 and 90
- Safety IEC/EN60950-1

**Carrier Certifications**: Verizon Wireless
- AT&T Wireless
- PTCRB

**ENVIRONMENTAL**

**Ingress Protection**: IP66 (protected against dust and powerful water jets)

**MIL-STD 810G**: Low Pressure (Altitude) Operation 500.5 Proc. II
- High operating and storage temperature 501.5 Proc. I, II
- Low operating and storage temperature 502.5 Proc. I, II
- Solar Radiation 505.5 Proc. I
- Humidity 507.5 Proc. I, Cycle B
- Salt 509.5 (8 hr)
- Vibration 514.6 Proc. I, Category 4 Random

### PORTS

- Ethernet (100 Mbps)
- USB 2.0
- Power (11.0 - 33.0 VDC)
- WWAN2 LTE DIV
- WWAN1 LTE Main
- WWAN1 DIV/Wi-Fi
- WWAN2 LTE Main
- GPS