

DATASHEET

MobilityPro[®] 5000 Modem

Mobile Cellular Connectivity



PRODUCT HIGHLIGHTS

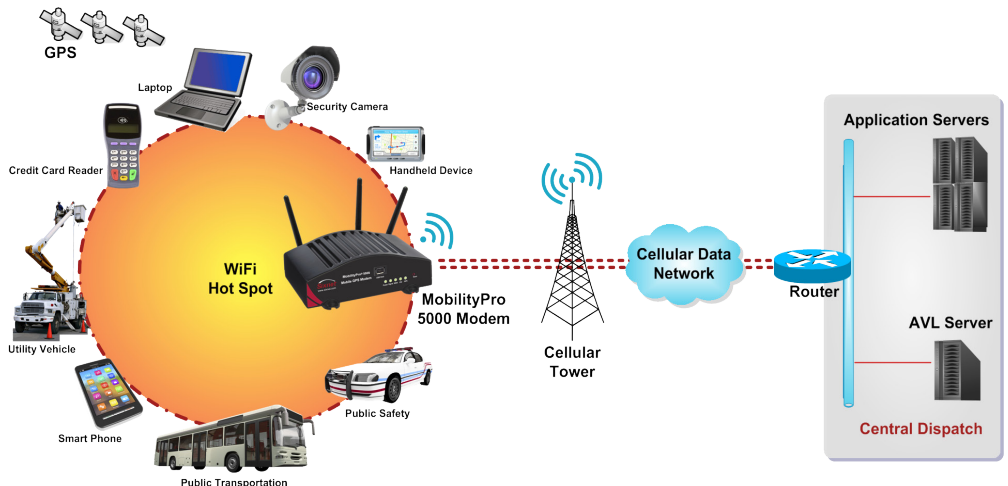
- Rugged design to MIL specs protects against shock and vibration
- Optional WiFi connectivity creates secure mobile hotspots
- Optional USB host allows expansion to support additional serial devices
- High-speed 3G technology provides “always-on” connectivity
- High-sensitivity GPS coupled with advanced event reporting enables enhanced tracking applications
- Remote device management reduces onsite visits
- Software Development Kit supports custom applications

APPLICATIONS

- In-vehicle resource management
 - Public safety
 - First responder
 - Fleet automation
 - Public transit
 - Intelligent transportation systems
 - Field service automation
- Portable and fixed cellular connectivity
 - Mobile merchants
 - Remote kiosks
 - Convenience stores

Sixnet's MobilityPro[®] 5000 modems use 3G cellular technology to deliver scalable, cost-effective connectivity solutions for mobile and fixed data applications that require secure, real-time communication. With embedded GPS functionality, MobilityPro modems are ideal for in-vehicle public safety, first responder, fleet automation and intelligent transportation system deployments where high-speed communication is vital.

WiFi or USB host options provide the flexibility required to seamlessly connect to additional equipment such as laptops and handheld devices. Furthermore, ease of use and lower cost of ownership are guaranteed through remote device management capabilities that include remote over-the-air diagnostics, configuration and firmware upgrades.



FEATURES & BENEFITS

Total Cost of Ownership Advantages

- **Speeds deployment and reduces onsite visits**
- **Provides flexible connectivity across devices**
 - Remote device configuration, diagnostics and firmware upgrades
 - Custom applications with Software Development Kit
 - Multiple antenna options
 - General purpose inputs and outputs

High-Speed 3G Vehicle Access

- **Reduces mobile communication costs**
- **Reduces emergency response time**
 - 3G GSM HSPDA/HSUPA and 3G CDMA EVDO Rev. A
 - Embedded GPS functionality
 - Automated location-based routing

Optional WiFi & USB Connection

- **Increases flexibility of data access**
- **Improves mobile efficiency and safety**
 - WiFi option enables high-performance wireless connectivity
 - USB host supports additional serial connections

Advanced Event-Reporting Engine

- **Optimizes fleet management and tracking**
- **Increases mobile efficiency and safety**
 - Vehicle ignition on/off
 - Real-time and distance-based tracking
 - Speed, idling and I/O state change reports

Rugged, Compact Design

- **Deploys easily in space-constrained areas**
- **Delivers proven reliability**
 - -40 to 85°C operating temperature
 - Industrial, shock-resistant packaging

MobilityPro 5000 Modem

Mobile Cellular Connectivity

SPECIFICATIONS

Wireless Radio Options

- GSM HSPDA/HSUPA (BT-5800)
 - 14.4 Mbps peaks
- CDMA EVDO Rev. A (BT-5600v2)
 - 4.1 Mbps peaks

GPS

- Accuracy
 - < 2m: 50%
 - < 4m: 90%
- Acquisition
 - Hot start: 3 seconds
 - Warm start: 35 seconds
 - Cold start: 38 seconds
- Sensitivity
 - Tracking: -160 dBm
 - Acquisition: -146 dBm
- Augmentation: SBAS (WAAS, EGNOS)
- GPS protocols: TAIP and NMEA

Interfaces

- 1x RJ45 10/100 Mbps autosensing
- 1x RS-232 Serial DB9 (up to 115,200 Mbps)
- 1x USB1.1 Type B device (up to 12 Mbps)
- Optional USB host

WiFi Option

- 802.11 b/g 2.4 GHz radio compliant access point
- Single SSID
- Supports up to 128 concurrent users
- WEP (64/128bit, only for b/g)
- 802.11 authentication
 - IEEE 802.1x
 - EAP-MD5/TLS/TTLS/PEAP
- SSID broadcast disable

Inputs & Outputs

- 1x reset button
- 1x ignition sense
- 4x digital inputs
- 3x digital outputs
- 3x analog inputs

LED Status Indicators

- Power
- WAN
- Signal
- GPS
- RS-232
- Ethernet link
- Ethernet activity

Management & Reporting

- Advanced event reporting engine
- Remote device management
- Web-based network monitoring

Power

- Supported range: 8-30v DC
- Nominal: 8 and 24VDC

Mechanical

- Dimensions (HxWxD):
6.5" x 4.2" x 2.2" (166 x 107 x 56mm)
- Weight: 1lbs 1oz (489g)

Environmental

- Operating temperature: -40°C to 85°C
- Humidity: 95% non-condensing
- Shock: MIL-STD-810F and MIL-STD-202
- Vibration: MIL-STD-810F
- Automotive: SAE J1455

Warranty

- 3 years on design and manufacturing defects

About Red Lion

As the global experts in communication, monitoring and control for industrial automation, Red Lion has been delivering innovative solutions to customers for forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, Sixnet and N-Tron. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is a Spectris company.

For more information, visit www.redlion.net/sixnet, call +1 (518) 877-5173 or email info@redlion.net

ORDER GUIDE

PART NUMBER	DESCRIPTION
BT-5600v2	CDMA EVDO Rev. A*
BT-5600v2-U	CDMA EVDO Rev. A* with USB host
BT-5630v2	CDMA EVDO Rev. A* with WiFi connectivity
BT-5800v2-GE	GSM HSPDA/HSUPA**
BT-5800v2-GE-U	GSM HSPDA/HSUPA** with USB host
BT-5830v2	GSM HSPDA/HSUPA** with WiFi connectivity

*CDMA: (Bell Mobility/MTS/SaskTel/Sprint/Telus/Verizon approvals)

**GSM: (AT&T/Bell/Rogers/SaskTel/Telus approvals)



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CONNECT. MONITOR. CONTROL.