





MSRP: \$999 - \$1,099

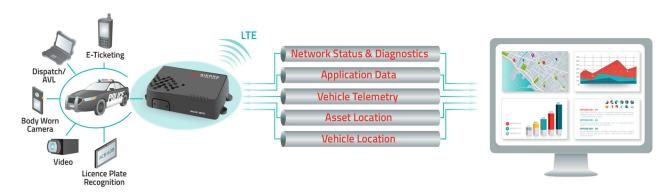
Vehicle Grade, LTE-Advanced Pro, Gigabit Wi-Fi

The AirLink® MP70 is a high performance, LTE-Advanced Pro vehicle router developed specifically for mission critical applications in public safety, transit and field services.

Offering high power, long range Gigabit Wi-Fi and Gigabit Ethernet, and fast cellular downlink and uplink over LTE-Advanced Pro, the AirLink MP70 unites the fleet with the enterprise network and enables multiple field applications to work simultaneously, further and faster from the vehicle than ever before. LTE-Advanced Pro supports fast 600 Mbps downlink and 150 Mbps uplink speeds making the MP70 ideal for bandwidth intensive applications like HD real-time video streaming, and passenger Wi-fi. The MP70 is also FirstNet Ready™ with support for 700MHz Band 14, and support for priority and pre-emption for first responders.

The MP70 supports advanced remote visibility and instant insight into the vehicle area network (VAN), field applications and assets, and the mobile workforce. Purpose built for the vehicle, the MP70 delivers superior reliability and uninterrupted operation in harsh mobile environments.

Secure, managed LTE networking for mission critical applications



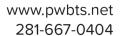
Vehicle Routers and Gateways

Secure, Intelligent Communications

Network Management



For More Information, Contact:







HIGH PERFORMANCE VEHICLE AREA NETWORK (VAN)

With dual-band Gigabit Wi-Fi and Gigabit Ethernet, the AirLink MP70 enables a complete portfolio of broadband mission critical applications to work simultaneously, further and faster from the vehicle than ever before.

Built for first responders and field personnel, the MP70 offers up to 600 Mbps downlink and 150 Mbps uplink speeds over LTE-Advanced Pro and up to 1.3 Gbps over 802.11ac Wi-Fi (with 3x3 MIMO) and Gigabit 4-port Ethernet. The AirLink MP70 can host up to 128 simultaneous Wi-Fi clients and has multiple SSIDs to support public and private network connections, in addition to managed Wi-Fi services for content filtering. It concurrently connects many mission critical applications in and around the vehicle, including laptops, DVRs and tablets, in addition to providing live video streaming, and rapid and secure access to remote databases, such as record management systems.

The AirLink MP70 supports 26 LTE frequency bands, enabling superior coverage on LTE networks worldwide including dedicated regional Public Safety bands including Band 14. The MP70 has four product variants: An LTE-Advanced Pro variant for North America with support for Band14, a Global LTE-Advanced Pro variant with support for Band20 and Band28; an LTE-Advanced variant for North America and EMEA and one for APAC.

AirLink MP70 supports automatic configuration of the radio based on the SIM (Network Operator) and offers dual-SIM functionality to enable automatic failover between SIMs, providing superior connectivity and cost optimization when roaming.

CONNECTED VEHICLE AWARENESS

The AirLink MP70 increases efficiency, streamlines operations and reduces costs by supporting advanced remote visibility and instant insight into the vehicle area network (VAN), field applications and assets, and the workforce.

Offering built-in vehicle-ready I/O, with the capacity to support AirLink Vehicle Telemetry, the MP70 enables remote monitoring of auxiliary devices such as light bars, sirens and gun racks, and can collect OBD-II and J1939 vehicle telemetry data for engine diagnostics and performance data to monitor vehicle health.

The MP70 offers an integrated mobile events engine to monitor hundreds of router, network, and connected vehicle parameters in real time, and create custom alerts, event triggers and reports. Reports and alerts are synchronized with third party server platforms or AirLink network management software to enable centralized and remote management of critical events.

Utilizing next generation GNSS location technology that supports 48 satellites from 4 different satellite constellations (GPS, GLONASS, Galileo, Beidou), the MP70 provides fast, reliable and precise vehicle location, even in the most challenging environments. The MP70 contains an Inertial Navigation System that allows it to track without satellites, using dead reckoning algorithms integrated with the GNSS. The Inertial Navigation System continues to provide positioning information when the GNSS is unable to acquire satellites. This enables tracking through urban canyons, tunnels and underground parking.

Location information can be streamed from the GNSS locally over the serial port to connected in-vehicle driver navigation and dispatch systems, and remotely over NMEA, TAIP, RAP and XORA protocols for integration with 3rd party applications.





DASHBOARD



SOFTWARE UPGRADES/UPDATES



MONITOR CONNECTIVITY



SECURITY CONFIGURATION



PURPOSE BUILT FOR VEHICLES

The MP70 provides superior reliability and continuous operation in harsh environments. It will survive extreme transient surges, and maintain continuous power during 5V brownouts and spikes from -600 VDC to 200 VDC.

The AirLink MP70 safeguards vehicle operation by using built-in battery charge protection to monitor ignition state and battery voltage and, with a class leading power supply which meets and exceeds the requirements for E-Mark, ISO 7637-2 and SAEJ1455, the MP70 requires no additional power conditioning.

Developed with industrial grade components, the AirLink MP70 has a customized die cast aluminum housing to manage the thermal output from its high performance LTE-Advanced and Wi-Fi radios. The MP70 is designed to meet IP64 for resistance to dust and water ingress, and is tested to meet and exceed the MIL-STD-810G specifications for shock, vibration, temperature and humidity.

SECURE, INTELLIGENT COMMUNICATIONS

The AirLink MP70 provides consolidated data security for all field applications and mobile assets in the vehicle area network (VAN).

Offering up to 5 concurrent VPN sessions, the AirLink MP70 enables secure communications to multiple back-end systems, and provides remote authentication management to allow the implementation of enterprise-grade systems to control access to devices in the field. Secure signing and authentication of software images offers end-to-end protection of the software upgrade process, protecting the MP70 against unwanted malware.

NETWORK MANAGEMENT

Network Management solutions for the MP70 allow over-the-air registration, configuration and software updates for all AirLink gateways and routers, and can be deployed either as a hosted cloud-based service, or as a licensed software platform in the enterprise data center. Both options provide a centralized and remote view of an entire vehicle fleet and enable simplified management, control and monitoring of connected MP70s, field applications and mobile assets.

AirLink Management Service (ALMS) is a secure, centralized cloud-based service that remotely monitors and manages signal strength, network technology and location. ALMS provides dashboards with up-to-date views of an entire deployment, and custom alerts to monitor and report critical events, to increase efficiency and prevent downtime.

AirLink Mobility Manager (AMM) is a licensed, unified software platform which can be deployed in the enterprise data center, and provides a consolidated network view of an entire fleet, using a virtual dashboard to monitor, report, manage, and troubleshoot all mobile resources as required.





FEATURE	BENEFIT
LTE-Advanced Pro (Carrier Aggregation) Wide Area Network (WAN) supporting 600 Mbps downlink and 150 Mbps uplink speeds	High speed, concurrent connectivity for multiple wired and wireless devices and applications in and around the vehicle
State-of-the-art LTE coverage spanning 26 LTE frequency bands worldwide, with automatic 3G fallback (HSPA)	Connectivity to LTE networks worldwide
Automatic radio configuration based on the SIM	Increases flexibility and simplifies inventory management
Support for Public Safety LTE bands including Band 14 (United States), Band 20 and 28 (Europe)	Secure, dedicated connectivity for first responders and other public safety fleets
Dual-SIM functionality to enable automatic failover between SIMs	Superior network connectivity and cost optimization when roaming
4-port Gigabit Ethernet and next generation 802.11ac Gigabit Wi-Fi (3 x 3 MIMO) to support up to 1.3 Gbps, up to 128 clients, multiple SSIDs, Passenger Wi-Fi Captive Portal and WPA2	Securely connects and consolidates data from multiple high bandwidth field applications and mobile assets in and around the vehicle
Enterprise	Provides simultaneous connectivity to both private and public networks, in addition to passenger content filtering
High power Wi-Fi provides long range Vehicle Area Network (VAN) and simultaneous AP/Client Mode	Enables all devices to connect to router in and around the vehicle, and data to be transmitted over depot Wi-Fi networks
High power Gigabit Ethernet WAN Interface	Single solution for hybrid networks containing wireless and wired deployments
Support for AirLink Vehicle Telemetry to collect OBD-II vehicle telemetry data and monitor engine diagnostics	Access to critical vehicle health data
Built-in vehicle ready I/O for remote monitoring of auxiliary devices, such as light bars, sirens and gun racks	Advanced awareness of fleet operations
Precision Geo-location via GNSS and Inertial Navigation System, allow local data streaming over the serial port and remotely over NMEA, TAIP, RAP, XORA protocols	Superior vehicle location accuracy, even when out of satellite coverage, available to field personnel and dispatch staff, and via 3rd party platforms
Integrated Mobile Events Engine for real time monitoring and alert reporting of multiple devices, networks, and connected vehicle parameters	Remote, real time visibility and insight into the vehicle, connected equipment and mobile workforce
Designed to meet IP64 for resistance to dust and water ingress, and exceeds the MIL-STD-810G specification for shock, vibration, temperature and humidity, and an aluminum chassis for heat dissipation	Superior reliability and uninterrupted operation in harsh vehicle environments
Class-leading power supply with built-in surge protection that exceeds E-Mark, ISO 7637-2 and SAEJ1455 requirements, surviving 5V brownouts and spikes from -600 VDC to 200 VDC	Designed to perform with unpredictable and "noisy" power sources, no external power conditioning is required
Remote monitoring, management and control with Sierra Wireless's Network Management Solutions—deployable in the cloud or in the enterprise data center	Simplified and centralized network and mobile asset management to increase efficiency, prevent downtime and reduce costs
Over twenty years' experience in cellular networking, and over 1.5 million AirLink gateways deployed	Proven track record of providing reliable communications for mission critical applications
Industry leading warranty, support, software updates and advance replacement	Reduces ongoing support costs and total cost of ownership





	North America & EMEA	Asia Pacific	North America	Global		
	LTE-A		LTE-A Pro			
LTE CATEGORY	Cat 6		Cat 12			
Peak D/L (Mbps)	300		600			
Peak U/L (Mbps)	50		150			
46 LTE Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 700(B12), 700(B13), 800(B20), 1900(B25), 850(B26), 700(B29), TDD B41	2100(B1), 1800(B3), 850(B5), 2600(B7), 900(B8), 850(B18), 850(B19), 1500(B21), 700(B28), TDD 38, TDD 39, TDD 40, TDD 41	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 700(B14), 850(B18), 850(B19), 800(B20), 850(B26), 700(B29), 2300(B30), 1500(B32), TDD B41, TDD B42*, TDD B43*, TDD B46*, CBRS B48*, 1700(B66)	2100(B1), 1900(B2), 1800(B3), MVS(B4), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 850(B18), 850(B19), 800(B20), 850(B26), 700(B28), 700(B22), 2300(B30), 1500(B32), TDD B41, TDD B42*, TDD B43*, TDD B46*, CBRS B48*, 1700(B66)		
Public Safety Bands	N/A	N/A	Band 14 (United States) FIRSTNET READY	Band 26, 28		
3G WCDMA/HSPA+ Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 900(B8)	2100(B1), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19) TD-SCDMA: B39	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)		
APPROVALS Regulatory	FCC, IC, PTCRB, R&TTE, GCF, CE	RCM, JRF/JPA	FCC, IC, PTCRB, GCF	CE, RED, RCM		
Carrier	Verizon, AT&T, Sprint, Rogers, Telus, Bell, SouthernLinc	Telstra	Verizon, AT&T			
PART NUMBERS	1102709 1102743 (Wi-Fi)	1102713 1102745 (Wi-Fi)	1104071 1104073 (Wi-Fi)	1104072 1104074 (Wi-Fi)		

	Specification		Specification
HOST INTERFACES	4 Gigabit RJ-45 Ethernet ports	SATELLITE NAVIGATION (GNSS)	Dedicated GNSS Receiver supporting GPS, GLONASS, BeiDou,
	RS-232 serial port (DB-9)	(GN55)	Galileo
	USB 2.0 Micro-B Connector		Tracking Sensitivity: -162 dBm
	3 SMA antenna connectors (cellular, diversity, GNSS)		Reports: NMEA 0183 V3.0, TAIP, RAP, XORA
	Active GNSS antenna support		Multiple Redundant Servers
SECURITY	Remote Authentication (LDAP, RADIUS, TACACS+)		Reliable Store and Forward
	DMZ		Inertial Navigation Sensors (Accelerometer and Gyro)
	Inbound and Outbound Port filtering	NETWORK MANAGEMENT	Secure mobile network & asset management application
	Inbound and Outbound Trusted IP		available in the cloud or licensed platform in the enterprise dat center
	MAC Address Filtering		Fleet wide firmware upgrade delivery
	PCI compatible		Router configuration and template management
	Secure Firmware Update		Router staging over the air and local Ethernet connection
	FIPS 140-2		Over-the-air software and radio module firmware updates
WI-FI (Optional)	Dual Band 2.4/5GHz Wi-Fi		Device Configuration Templates
	802.11 b/g/n/ac with support for 128 clients		Configurable monitoring and alerting
	WPA2 Enterprise		Remote provisioning and airtime activation (where applicable)
	High output power 21 dBm (per chan)	EVENTS ENGINE	Custom event triggers and reports
	Simultaneous AP/Client Mode		Configurable interface, no programming
INPUT/OUTPUT	WiFi as WAN Mode (Multiple SSIDs, Captive Portal)		Event Types: Digital Input, Network Parameters, Data Usage,
	Configurable I/O (5 pins total) • 5 Digital Inputs: ON Voltage: 2.7 to 36 VDC		Timer, Power, Device Temperature and Voltage
	1 Digital Open Collector Output > sinking 500 mA		Report Types: RAP, SMS, Email, SNMP Trap, TCP (Binary, XML,
	3 Analog Inputs: 0.5-36 VDC		CSV)
	Configurable Pull-ups for dry contact input		Event Actions: Drive Relay Output
LAN (ETHERNET/USB)	DHCP Server	ROUTER MANAGEMENT INTERFACES	Local web user interface
	IP Passthrough	INTERFACES	AT Command Line Interface (Telnet/SSH/Serial)
	VLAN		SNMP
	Host Interface Watchdog		SMS Commands
	PPPoE		





ı	Specification			Specification
SERIAL TCP/UDP PAD Mode		APPLICATION FRAMEWORK		ALEOS Application Framework (AAF)
	Modbus (ASCII, RTU, Variable) PPP			LUA Scripting Language
EAN AR CALL FAITA	DNP3 Interoperability		INDUSTRY CERTIFICATIONS	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950
ENVIRONMENTAL Operating Temperature: -30°C to +70°C / -22°F to +15 Storage Temperature: -40°C to +85°C / -40°F to +185° Humidity: 95% RH @ 60°C				Vehicle Usage: E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock, Vibration, Electrical) Environmental: RoHS2, REACH, WEEE
	Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity IP64 rated ingress protection			Rail Usage: EN50155 (Rolling Stock)
			SUPPORT AND WARRANTY	Includes 1st Year AirLink Complete:
POWER	Input Voltage: 7 to 36 VDC Low voltage disconnect to prevent battery drain Built-in protection against voltage transients including 5 VDC engine cranking and +200 VDC load dump Ignition Sense with time delay shutdown			AirLink Management Service (ALMS) Direct 24/7 Technical Support - 3-year standard warranty; optional 2-year warranty extension 1-day Accelerated Hardware Replacement available through participating resellers
NETWORK AND ROUTING	Network Address Translation (NAT) Port Forwarding NEMO/DMNR VRRP Reliable Static Route	Ethernet WAN Verizon PNTM IPv6 Gateway Policy Routing Dynamic DNS	ACCESSORIES	In the box: DC Power Cable and Quick Start Guide AC Adapter (2000579) I/O Cable (6001004) OBD-II Y Cable (6001204) J1939 Y Cable (6001192)
VPN	IPsec, GRE, and OpenVPN Client Up to 5 concurrent tunnels Split Tunnel Dead Peer Detection (DPD)	•	_	6-in-1 Shark Fin (6001197) 6-in-1 Dome Antenna (6001121) See website for more antenna options.
DIMENSIONS	190mm x 45mm x 105mm (112mm 7.5in x 1.75 in x 4.1 in (4.4 in includir Weight: 0.76kg / 1.68 lb		_	

About Sierra Wireless

*For carrier specific band support please refer to the hardware user guide.

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is the leading IoT solutions provider that combines devices, network and software to unlock value in the connected economy. Companies globally are adopting IoT to improve operational efficiency, create better customer experiences, improve their business models and create new revenue streams. Whether it's a solution to help a business securely connect edge devices to the cloud, or a software/API solution to help manage processes associated with billions of connected assets, or a platform to extract real-time data to make the best business decisions, Sierra Wireless will work with you to create the right industry-specific solution for your next IoT endeavor. Sierra Wireless has more than 1,300 employees globally and operates R&D centers in North America, Europe and Asia.

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