



Multi-Port LTE-A Pro Rugged Vehicle Router for Public Safety Fleets and Industrial IoT

MP70 Product Description

The AirLink® MP70 with a single LTE radio and dual-band Gigabit Wi-Fi, enables live video streaming and secure access to remote databases, and delivers connectivity for laptops, tablets, DVRs, and vehicle telemetry.

AIRLINK MP70 LTE-A PRO

Rugged Cat 12 LTE router capable of 600 Mbps downlink and 150 Mbps uplink speeds. FirstNet Ready. Wi-Fi optional.

AIRLINK MP70 LTE-A

Rugged Cat 6 LTE router capable of 300 Mbps downlink and 50 Mbps uplink speeds. Wi-Fi optional.

Ideal Applications

Mobile mission critical applications in public safety and field services. Enables robust and secure Vehicle Area Networks (VANS) for:

- Ambulance/EMS
- Law Enforcement
- Fire
- Utility Vehicles
- Multi-ethernet industrial and IoT applications

Benefits

- Proven solution: More than half of the Top 100 police departments rely on Sierra Wireless routers in cruisers and incident response vehicles
- Delivers reliable results in your real-world conditions
- Video, voice and data applications all work together - when and how you need them
- Work further and faster from the vehicle than ever before
- Supports Private Networking

AirLink MP70 – Router Specifications

CELLULAR	
Peak D/L	MP70 LTE-A – Up to 300 Mbps, Cat 6
	MP70 LTE-A PRO – Up to 600 Mbps, Cat 12
Peak U/L	MP70 LTE-A – Up to 50 Mbps
	MP70 LTE-A PRO – Up to 150 Mbps
4G LTE	
Frequency Bands	
NAM & EMEA	MP70 LTE-A – B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B41
APAC	MP70 LTE-A – B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41
NAM	MP70 LTE-A PRO – B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42*, B43*, B46*, CBRS, B48*, B66, CBRS <i>*Future Variant</i>
Global	MP70 LTE-A PRO – B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42*, B43*, B46*, B48*, B66 <i>*Future Variant</i>
Public Safety Bands	
NAM	MP70 LTE-A PRO – Band 14 (United States), FirstNet
Global	MP70 LTE-A PRO – Band 26, 28
3G WCDMA/HSPA+	
Frequency Bands	
NAM & EMEA	MP70 LTE-A – B1, B2, B3, B4, B5, B8
APAC	MP70 LTE-A – B1, B5, B6, B8, B9, B19, B39
NAM	MP70 LTE-A PRO – B1, B2, B4, B5, B6, B8, B9, B19
Global	MP70 LTE-A PRO – B1, B2, B4, B5, B6, B8, B9, B19

APPROVALS	
Regulatory	
NAM & EMEA	MP70 LTE-A – FCC, IC, PTCRB, R&TTE, GCF, CE
APAC	MP70 LTE-A – RCM, JRF/JPA
NAM	MP70 LTE-A PRO – FCC, IC, PTCRB, GCF
Global	MP70 LTE-A PRO – CE, RED, RCM
Carrier*	
NAM & EMEA	MP70 LTE-A – AT&T, Verizon, Telus, T-Mobile, Rogers
APAC	MP70 LTE-A – Telstra
NAM	MP70 LTE-A PRO – AT&T, Verizon, Telus, T-Mobile, Rogers
Global	MP70 LTE-A PRO – Telstra
PART NUMBERS	
NAM & EMEA	MP70 LTE-A – 1102709, 1102743 (Wi-Fi)
APAC	MP70 LTE-A – 1102713, 1102745 (Wi-Fi)
NAM	MP70 LTE-A PRO – 1104071, 1104073 (3x3 Wi-Fi 1.3Gbps), 1104932 (2x2 Wi-Fi 867Mbps)
Global	MP70 LTE-A PRO – 1104072, 1104074 (Wi-Fi)
HOST INTERFACES	
	4 Gigabit RJ-45 Ethernet ports RS-232 serial port (DB-9) USB 2.0 Micro-B Connector 3 SMA antenna connectors (cellular, diversity, GNSS) Active GNSS antenna support
SECURITY	
	Remote Authentication (LDAP, RADIUS, TACACS+) DMZ Inbound and Outbound Port filtering Inbound and Outbound Trusted IP MAC Address Filtering PCI compatible Secure Firmware Update FIPS 140-2

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

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SATELLITE NAVIGATION (GNSS)	
	Dedicated GNSS Receiver supporting GPS, GLONASS, BeiDou, Galileo Tracking Sensitivity: -162 dBm Reports: NMEA 0183 V3.0, TAIP, RAP, XORA Multiple Redundant Servers Reliable Store and Forward Inertial Navigation Sensors (Accelerometer and Gyro)
WI-FI (OPTIONAL)	
	Dual Band 2.4/5GHz Wi-Fi 802.11 b/g/n/ac with support for 128 clients WPA2 Enterprise High output power Simultaneous AP/Client Mode WiFi as WAN Mode (Multiple SSIDs, Captive Portal)
LAN (ETHERNET/USB)	
	DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE
ENVIRONMENTAL	
Temperature	Operating Temperature: -30°C to +70°C / -22°F to +158°F Storage Temperature: -40°C to +85°C / -40°F to +185°F Humidity: 95% RH @ 60°C
	Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity IP64 rated ingress protection
POWER	
Input/Operating Voltage	7 to 36 VDC
Power modes	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
INPUT/OUTPUT	
	Configurable I/O (5 pins total) <ul style="list-style-type: none"> • 5 Digital Inputs: ON Voltage: 2.7 to 36 VDC • 1 Digital Open Collector Output > sinking 500 mA • 3 Analog Inputs: 0.5-36 VDC • Configurable Pull-ups for dry contact input
SERIAL	
	TCP/UDP PAD Mode Modbus (ASCII, RTU, Variable) PPP DNP3 Interoperability
NETWORK AND ROUTING	
	Network Address Translation (NAT) Reliable Static Route Port Forwarding Dynamic DNS Policy Routing Verizon PNTM NEMO/DMNR IPv6 Gateway VRRP
VPN	
	IPsec, GRE, and OpenVPN Client Up to 5 concurrent tunnels Split Tunnel Dead Peer Detection (DPD)
ROUTER MANAGEMENT INTERFACES	
	Local web user interface AT Command Line Interface (Telnet/SSH/Serial) SNMP SMS Commands
APPLICATION FRAMEWORK	
	ALEOS Application Framework (AAF) LUA Scripting Language
EVENTS ENGINE	
	Custom event triggers and reports Configurable interface, no programming Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature and Voltage Report Types: RAP, SMS, Email, SNMP Trap, TCP (Binary, XML, CSV) Event Actions: Drive Relay Output
INDUSTRY CERTIFICATIONS	
Safety	IECEE Certification Bodies Scheme (CB Scheme), UL60950
Vehicle Usage	E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock, Vibration, Electrical)
Environmental	RoHS2, REACH, WEEE
Rail Usage	EN50155 (Rolling Stock)
SUPPORT AND WARRANTY	
	1 year standard warranty with up to 5 years extended warranty with current AirLink Complete subscription. Unrestricted critical firmware updates.

AirLink MP70 – Router Specifications

ACCESSORIES

In the box	MP70, DC Power Cable and Quick Start Guide <ul style="list-style-type: none">• AC Adapter (2000579)• I/O Cable (6001004)• OBD-II Y Cable (6001204)• J1939 Y Cable (6001192)• 6-in-1 Shark Fin (6001197)• 6-in-1 Dome Antenna (6001121) <i>See website for more antenna options</i>
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DIMENSIONS

190mm x 45mm x 105mm (112mm including connectors)
7.5in x 1.75 in x 4.1 in (4.4 in including connectors)
Weight: 0.76kg / 1.68 lb

MP70 Services and Support



AIRLINK COMPLETE

Maximize your AirLink MP70 hardware investment and ensure your applications operate at peak efficiency by subscribing to our best-in-class service and support including:

- AirLink Management Service (ALMS) network management
- Optional Advanced Mobility Reporting (AMR)
- 24/7/365 Tier 1 technical support from wireless experts via phone or online access
- Extended hardware warranty – up to 5 years
- For more information on AirLink Complete visit our [web page](#)



PROFESSIONAL SERVICES

Our [Professional Services](#) experts are well-versed in the latest enterprise networking and security standards. Harvesting experience and lessons-learned over thousands of customer deployments, our best practices are expertly tailored to help you architect and deploy your cutting-edge AirLink solutions.



AIRLINK CONNECTION MANAGER

- VPN appliance built from the ground up for AirLink routers & gateways
- Simplify deployment and management of your VPN solution, extending the enterprise to the network edge for fixed and mobile endpoints
- Carrier agnostic – ACM doesn't require fixed and/or public IP
- Compatible with FIPS 140-2, and always-on VPN capability



AIRLINK ANTENNAS

- Tested and certified to provide guaranteed performance with all AirLink routers and gateways
- Accelerate deployment with always-on, end-to-end connectivity
- For more information on antennas specific to the MP70 router visit our [web page](#)

About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is a world leading IoT solutions provider that combines devices, network services, and software to unlock value in the connected economy. Companies globally are adopting 4G, 5G, and LPWA solutions to improve operational efficiency, create better customer experiences, improve their business models, and create new revenue streams. Sierra Wireless works with its customers to develop the right industry-specific solution for their IoT deployments, whether this is an integrated solution to help connect edge devices to the cloud, a software/API service to manage processes with billions of connected assets, or a platform to extract real-time data to improve business decisions. With more than 25 years of cellular IoT experience, Sierra Wireless is the global partner customers trust to deliver them their next IoT solution.

For more information, visit www.sierrawireless.com.