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SEMTECH®

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.

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: Leading U.S. police departments rely on AirLink routers in cruisers and incident response vehicles

- 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

- Remote device management through AirLink Complete

MP70 Services and Support

AIRLINK COMPLETE

Maximize your AirLink MP70 hardware investment with AirLink Complete – a comprehensive service package designed to empower you with the tools and support necessary to secure, optimize and effortlessly scale your MP70 deployments.

AirLink Complete includes*:

- **AirLink Management Service (ALMS)** for remote device and security management
- **Expert technical support**
- **Extended hardware warranty** – up to 5 years maximum
- For more information on AirLink Complete visit our _web page_

*With active subscription. 1-year subscription included with the MP70 purchase

AIRLINK PREMIUM

Ideal for organizations managing mission-critical vehicle fleets, this service upgrade encompasses all the benefits of AirLink Complete*, enhanced with:

- **Advanced Mobility Reporting***: Offers comprehensive coverage and fleet reporting to monitor your network and vehicles.
- **Advance Replacement***: Provides same-day shipping for in-warranty router replacements, minimizing downtime, spare inventory and keeping your operations running smoothly.

*With active subscription.

AIRLINK CONNECTION MANAGER (ACM) – MOBILE VPN

This purpose-built VPN solution securely extends your enterprise network to your AirLink router and its connected devices and applications.

Optimized for use in a mobile, multi-network environment, it seamlessly maintains VPN tunnels as users roam between multiple carrier and Wi-Fi networks to prevent downtime and loss of communications.

Available in a FIPS 140-2 compliant offering.

ANTENNAS

- Tested and certified to provide guaranteed performance with all AirLink routers
- Accelerate deployment with always-on, end-to-end connectivity
- For more information on antennas specific to the MP70 router visit our _web page_

AirLink MP70 – Router Specifications

CELLULAR	
Peak D/L	Up to 600 Mbps, Cat 12
Peak U/L	Up to 150 Mbps

4G LTE	
Frequency Bands	
NAM	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, CBRS B48, B66
Global	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66
Public Safety Bands	
NAM	Band 14 (United States), FirstNet®
Global	Band 26, 28

3G WCDMA/HSPA+	
Frequency Bands	
NAM	B1, B2, B4, B5, B6, B8, B9, B19
Global	B1, B2, B4, B5, B6, B8, B9, B19

APPROVALS	
Regulatory	
NAM	FCC, PTCRB, IC/ISED
Global	CE, GCF, RED, RCM
Carrier*	
NAM	AT&T, Verizon, T-Mobile, Rogers, Telus, Southern Linc
Global	Telstra

PART NUMBERS	
NAM	1104071, 1104073 (3x3 Wi-Fi 1.3Gbps)
Global	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.

AirLink MP70 – Router Specifications

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)
- 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/U DP PAD Mode
Modbus (ASCII, RTU, Variable)
PPP
DNP3 Interoperability

NETWORK AND ROUTING

Throughput	140 Mbps Firewall TCP throughput
Features	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)

AirLink MP70 – Router Specifications

AIRLINK COMPLETE (1 Year Included With Router Purchase)	
Support	24/7 technical support*
Hardware Warranty	1-year standard hardware warranty Extended hardware warranty up to 5 years with current subscription**
Device Management	AirLink Management Service (ALMS)*
Software Updates	Unrestricted critical firmware updates through at least December 31st, 2029
AIRLINK PREMIUM (Optional Upgrade) Includes All Airlink Complete Features* and Adds:	
Advanced Mobility Reporting	Coverage and fleet reporting***
Advance Replacement	Same-day shipping for in-warranty router replacements***

*With current AirLink Complete subscription
**Full warranty terms are available at www.sierrawireless.com/end-user-warranty
***With current AirLink Premium subscription

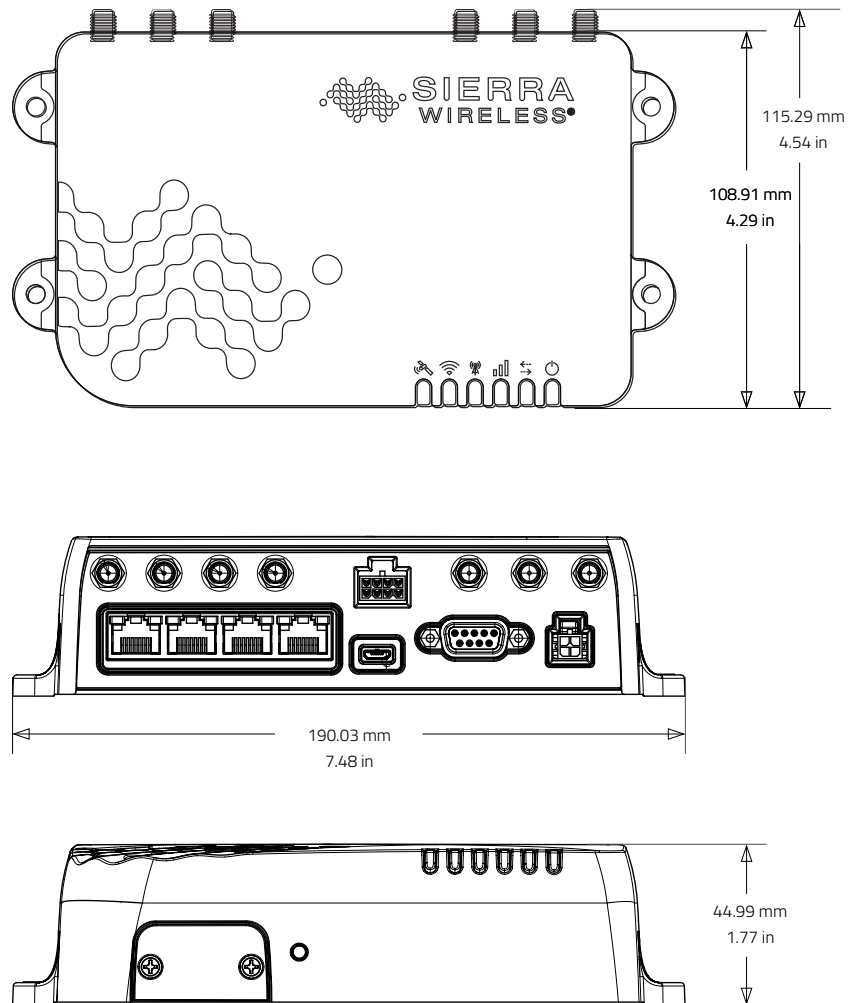| ACCESSORIES	
In the box	MP70, DC Power Cable and Quick Start Guide • AC Adapter (2000579) • I/O Cable (6001004) • OBD-II Y Cable (6001204) • J1939 Y Cable (6001192) • 6-in-1 Shark Fin (6001197) • 6-in-1 Dome Antenna (6001121) See website for more antenna options

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

AirLink MP70 – Router Dimensions Diagram

115.29 mm
4.54 in

108.91 mm
4.29 in

190.03 mm
7.48 in

44.99 mm
1.77 in

About Semtech

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

To learn more about Semtech technology, visit us at Semtech.com or follow us on LinkedIn or X.

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