




TECHNICAL SPECIFICATIONS

AirLink® MP70



Performance Series Routers



	North America & EMEA	Asia Pacific	North America	Global
	LTE-A		LTE-A Pro	
<b>LTE CATEGORY</b>	Cat 6		Cat 12	
<b>Peak D/L (Mbps)</b>	300		600	
<b>Peak U/L (Mbps)</b>	50		150	
<b>4G LTE Frequency Bands</b>	B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B41	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42*, B43*, B46*, CBRS  *Future Variant	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42*, B43*, B46*, B48*, B66
<b>Public Safety Bands</b>	N/A	N/A	Band 14 (United States) 	Band 26, 28
<b>3G WCDMA/HSPA+ Frequency Bands</b>	B1, B2, B3, B4, B5, B8	B1, B5, B6, B8, B9, B19, B39	B1, B2, B4, B5, B6, B8, B9, B19	B1, B2, B4, B5, B6, B8, B9, B19
<b>APPROVALS Regulatory</b>	FCC, IC, PTCRB, R&TTE, GCF, CE	RCM, JRF/JPA	FCC, IC, PTCRB, GCF	CE, RED, RCM
<b>Carrier</b>	Verizon, AT&T, Sprint, Rogers, Telus, Bell, SouthernLinc	Telstra	Verizon, AT&T	
<b>PART NUMBERS</b>	1102709 1102743 (Wi-Fi)	1102713 1102745 (Wi-Fi)	1104071 1104073 (3x3 Wi-Fi 1.3Gbps) 1104932 (2x2 Wi-Fi 867Mbps)	1104072 1104074 (Wi-Fi)



	Specification
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
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)
INPUT/OUTPUT	Configurable I/O (5 pins total) <ul style="list-style-type: none"> <li>5 Digital Inputs: ON Voltage: 2.7 to 36 VDC</li> <li>1 Digital Open Collector Output &gt; sinking 500 mA</li> <li>3 Analog Inputs: 0.5-36 VDC</li> <li>Configurable Pull-ups for dry contact input</li> </ul>
LAN (ETHERNET/USB)	DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE

	Specification
SERIAL	TCP/UDP PAD Mode Modbus (ASCII, RTU, Variable) PPP DNP3 Interoperability
ENVIRONMENTAL	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 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
NETWORK AND ROUTING	Network Address Translation (NAT) Ethernet WAN Port Forwarding Verizon PNTM NEMO/DMNR IPv6 Gateway VRRP Policy Routing Reliable Static Route Dynamic DNS
VPN	IPsec, GRE, and OpenVPN Client Up to 5 concurrent tunnels Split Tunnel Dead Peer Detection (DPD)
DIMENSIONS	190mm x 45mm x 105mm (112mm including connectors) 7.5in x 1.75in x 4.1in (4.4in including connectors) Weight: 0.76kg / 1.68lb

	Specification
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)
NETWORK MANAGEMENT	Secure mobile network & asset management application available in the cloud or licensed platform in the enterprise data center Fleet wide firmware upgrade delivery Router configuration and template management Router staging over the air and local Ethernet connection Over-the-air software and radio module firmware updates Device Configuration Templates Configurable monitoring and alerting Remote provisioning and airtime activation (where applicable)
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
ROUTER MANAGEMENT INTERFACES	Local web user interface AT Command Line Interface (Telnet/SSH/Serial) SNMP SMS Commands

	Specification
APPLICATION FRAMEWORK	ALEOS Application Framework (AAF) LUA Scripting Language
INDUSTRY CERTIFICATIONS	Safety: IECCE Certification Bodies Scheme (CB Scheme), UL 60950 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	Includes 1st Year AirLink Complete: <ul style="list-style-type: none"> <li>AirLink Management Service (ALMS)</li> <li>Direct 24/7 Technical Support</li> <li>3-year standard warranty; optional 2-year warranty extension</li> </ul> 1-day Accelerated Hardware Replacement available through participating resellers
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) 6-in-1 Shark Fin (6001197) 6-in-1 Dome Antenna (6001121) See website for more antenna options.

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



## MP70 Services and Support



### AirLink Complete

Best-in-class support services covering AirLink MP70 devices. Includes:

- 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



### 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



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### About Sierra Wireless

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.

