SIERRA WIRELESS®

TECHNICAL SPECIFICATIONS

AirLink® LX60

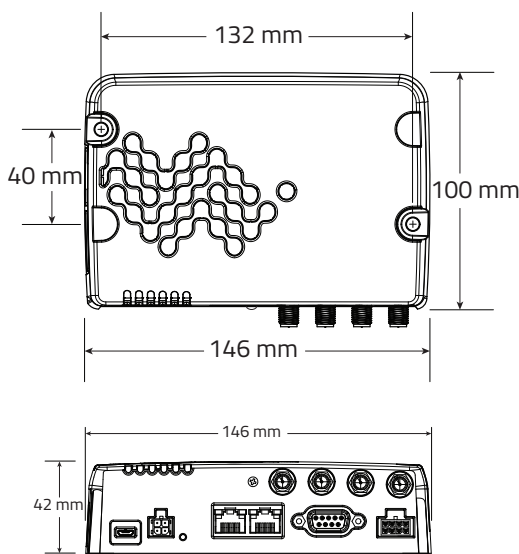|	North America	EMEA	Australia & New Zealand	Global
	LTE			**LTE-M/NB-IoT**
LTE CATEGORY Peak D/L	Cat-4 (WP7610) Up to 150 Mbps	Cat-4 (WP7607) Up to 150 Mbps	Cat-4 (WP7609) Up to 150 Mbps	Cat-M1/NB1 (WP7702) Cat-M1: 300kbps Cat-NB1: 27kbps
Peak U/L	Up to 50 Mbps	Up to 50 Mbps	Up to 50 Mbps	Cat-M1: 375kbps Cat-NB1: 65kbps
4G LTE Frequency Bands	1900(B2), AWS(B4), 850(B5), 700(B12), 700(B13), 700(B17), 1700(B66)	2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20), 700(B28)	2100(B1), 1800(B3), 850(B5), 2600(B7), 900(B8), 700(B28)	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 900(B8), 700(B12), 700(B13), 700(B17), 850 (B18), 850(B19), 800(B20), 850(B26),700(B28)
3G WCDMA/HSPA+ Frequency Bands	1900(B2), AWS(B4), 850(B5)	2100(B1), 900(B8)	2100(B1), 850(B5), 900(B8)	
2G GSM/GPRS Frequency Bands		900, 1800		850, 900, 1800, 1900
APPROVALS Regulatory	FCC, IC, PTCRB	GCF, CE	GCF, RCM	FCC, IC, PTCRB, GCF, CE
Carrier	Verizon, AT&T		Planned: Telstra	Verizon (Cat-M1), AT&T (Cat-M1)
PART NUMBER	1104580 1104572 (Wi-Fi + GNSS) 1104493 (Wi-Fi + GNSS + Telemetry)	1104046 1104047 (Wi-Fi + GNSS)	1104048 1104049 (Wi-Fi + GNSS)	1104030

	Specification
HOST INTERFACES	2 Gigabit RJ-45 Ethernet ports
	RS-232 serial port (DB-9)
	USB 2.0 Micro-B Connector
	3 SMA antenna connectors (cellular, diversity, GNSS)
	1 SMA for LTE-M version
	1 RP SMA antenna connector (Wi-Fi)
	Active GNSS antenna support
	Aux Port (RS-485/GPIO)
WI-FI (Optional)	Dual Band 2.4/5GHz Wi-Fi
	802.11 b/g/n/ac (Wave2 Client Mode)
	Support for 10 clients, WPA2 Enterprise
	Output power 16dBm
	Access Point or Client Mode (Wi-Fi as WAN)
	Single SSID Support
	Captive Portal
INPUT/OUTPUT	Configurable I/O (5 pins total) • 5 Digital Inputs: ON Voltage: 2.7 to 36 VDC • 1 Digital Open Collector Output > sinking 300 mA • 3 Analog Inputs: 0.5-5/0.5-10 VDC (range selectable) • Configurable Pull-ups for dry contact input

	Specification
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
SATELLITE NAVIGATION GNSS (OPTIONAL)	Dedicated GNSS Receiver supporting GPS, GLONASS, BeiDou, Galileo
	Tracking Sensitivity: -162 dBm
	Accuracy: < 1.5m (50%), < 3.15m (95%)
	Acquisition Time: 1s Hot Start
	Reports: NMEA 0183 V3.0, TAIP, RAP, XORA
	Multiple Redundant Servers
	Reliable Store and Forward

	Specification			Specification
LAN (ETHERNET/USB)	DHCP Server		**NETWORK MANAGEMENT**	Secure mobile network & asset management application available in the cloud or licensed platform in the enterprise data center
	IP Passthrough			Fleet wide firmware upgrade delivery
	VLAN			Router configuration and template management
	Host Interface Watchdog			Router staging over the air and local Ethernet connection
	PPPoE			Over-the-air software and radio module firmware updates
SERIAL	TCP/UDP PAD Mode			Device Configuration Templates
	Modbus (ASCII, RTU, Variable)			Configurable monitoring and alerting
	PPP			Remote provisioning and airtime activation (where applicable)
	DNP3 Interoperability		**EVENTS ENGINE**	Custom event triggers and reports
NETWORK AND ROUTING	Network Address Translation (NAT)	Ethernet WAN		Configurable interface, no programming
	Port Forwarding	Verizon PNTM		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)
	NEMO/DMNR	IPv6 Gateway		
	VRRP	Policy Routing		Event Actions: Drive Relay Output
	Reliable Static Route	Dynamic DNS	**ENVIRONMENTAL**	Operating Temperature: -30°C to +65°C / -22°F to +149°F
VPN	IPsec, GRE, and OpenVPN Client			Storage Temperature: -40°C to +85°C / -40°F to +185°F
	Up to 5 concurrent tunnels			Humidity: 90% RH @ 60°C
	Split Tunnel			Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity
	Dead Peer Detection (DPD)			IP20 rated ingress protection
ROUTER MANAGEMENT INTERFACES	Local web user interface		**INDUSTRY CERTIFICATIONS**	Safety: IECE Certification Bodies Scheme (CB Scheme), UL 60950
	AT Command Line Interface (Telnet/SSH/Serial)			Vehicle Usage: ISO7637-2, SAE J1455 (Shock, Vibration, Electrical) Environmental: RoHS2, REACH, WEEE
	SNMP			Hazardous Environments: Class 1 Div 2 - Ambient temperatures of -30°C to +60°C
	SMS Commands			
APPLICATION FRAMEWORK	ALEOS Application Framework (AAF)			Environmental: RoHS2, REACH, WEEE
	LUA Scripting Language		**SUPPORT AND WARRANTY**	Includes 1st Year AirLink Complete: • AirLink Management Service (ALMS) • Direct 24/7 Technical Support • 3-year standard warranty; optional 2-year warranty extension
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			1-day Accelerated Hardware Replacement available through participating resellers
	Ignition Sense with time delay shutdown		**ACCESSORIES**	In the box: DC Power Cable and Quick Start Guide
DIMENSIONS	146 mm x 42 mm x 100 mm (106 mm including connectors)			Other Accessories (sold separately):
	5.74 in x 1.65 in x 3.93 in (4.17 in including connectors)			2000579 AC Adapter, 12VDC
	250g (weight)			6001110 Cellular Paddle Antenna

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

6001111 Wi-Fi 2.4/5Hz Paddle Antenna
6001214 DIN Rail Bracket
6001231 Panel Antenna (LPWA)
For Antenna options visit: sierrawireless.com/antennas

Related AirLink Products

AIRLINK DEVICE MANAGEMENT SOLUTIONS

Airlink Management service (ALMS)

- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure
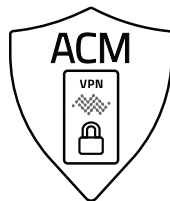
Airlink Manager / Mobility Manager (AM/AMM)

- Deployable in the enterprise data center (on-premises) or in the cloud
- Advanced, end-to-end network and asset management for both fixed and mobile networks.
- Remote, real-time configuration, control and troubleshooting of AirLink devices

AIRLINK VPN APPLIANCE

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

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. Sierra Wireless has more than 1,300 employees globally and operates R&D centers in North America, Europe and Asia.

For more information, visit www.sierrawireless.com.