SIERRA WIRELESS®

AirLink® LX60

Dual Ethernet LTE or LTE-M/NB-IoT Commercial Router for Retail, POS, IoT and Commercial Fleets

Essential Series Routers

Benefits

- Out-of-the box connectivity delivers same day operations
- Ensures business continuity through simplified failover
- Connect anywhere – without a need for wires or broadband
- Expand new services with global device connectivity

LX60 Product Description

The AirLink® LX60 provides LTE connectivity and Wi-Fi for primary and secondary/backup retail applications including ATMs, kiosks and POS terminals. The LX60 also supports taxis, fleets and IoT infrastructure applications in protected environments.

LX60 LTE

Cat 4 LTE router capable of 150 Mbps downlink and 50 Mbps uplink speeds.

LX60 LTE-M/NB-IOT

LPWA (Low-Power Wide Area) variant for low data rate industrial IoT applications.

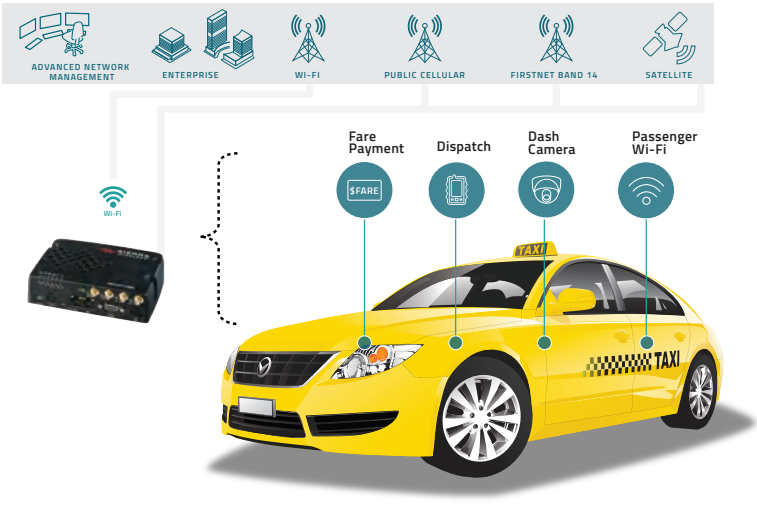
Ideal Applications

Primary or backup network connectivity for:

- Retail
- POS
- Taxis and commercial fleets
- Small branch offices
- Industrial IoT
- Building automation

LX60 APPLICATION EXAMPLES

CONNECTED CONVENIENCE STORE



CONNECTED TAXI

AIRLINK LX60 – ESSENTIAL SERIES ROUTER

Top Features	Device Variant	Specifications
LTE Supported	LX60 LTE	Cat4 LTE (150/50 Mbps) (DL/UL) HSPA+
	LX60 LTE-M/NB-IoT	Cat M1 (300/375 kbps). Cat-NB1 (27/65 kbps). (DL/UL)
Navigation	LX60 LTE (Optional)	GNSS
Wi-Fi	LX60 LTE (Optional)	Dual Band 2.4/5GHz Wi-Fi 802.11 Wave2, Client Mode Support for 10 clients, WPA2 Enterprise
Interfaces	All	Gigabit Ethernet ports (2) RS 485 and RS-232 USB 2.0 Digital I/O and analog inputs
Security	All	All Sierra Wireless security features including secure boot and secure firmware update. IPsec, GRE, and OpenVPN client with up to 5 concurrent tunnels.
Construction	All	Polycarbonate housings that meet MIL-810/IP20 environmental standards.
Industry Certification	All	Safety: IECEE Certification Vehicle Usage: ISO7637-2 and SAE J1455 (Shock & Vibration) Class1 Div 2 for hazardous use.
Dimensions	All	146 mm x 100 mm x 42 mm 5.74 in x 3.93 in x 1.65 in
Regions and Carriers	LX60 LTE	North America - Verizon, AT&T/Generic, EMEA, Australia and New Zealand
	LX60 LTE-M/NB-IoT	Global

LX60 Services and Support

AirLink Complete: AirLink Complete is a subscription service that combines best-in-class device management software through AirLink Management Service (ALMS), industry-leading technical support and an extended warranty option. It delivers a cost-effective way to ensure your mission-critical infrastructure operates at peak efficiency. AirLink Complete is included free for 1 year with the purchase of a new LX60.

Device Management: AirLink Management Service (ALMS) is a secure cloud-based device management solution that supports over-the-air registration, configuration and software updates. ALMS Advanced Reporting and Analytics (ALMS ARA) adds advanced historical reporting and deeper insights to data.

Professional Services: Full product life-cycle services including solution consulting and solution implementation services delivered by Sierra Wireless Network Engineers and Program Managers.

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.

Connect with Sierra Wireless on the IoT Blog at www.sierrawireless.com/iot-blog, on Twitter at @SierraWireless, on LinkedIn at www.linkedin.com/company/sierra-wireless and on YouTube at www.youtube.com/SierraWireless

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SIERRA WIRELESS®

TECHNICAL SPECIFICATIONS

AirLink® LX60

Essential Series Routers

	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

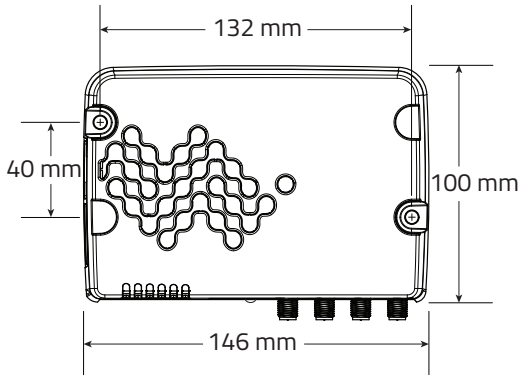
	Specification
HOST INTERFACES	2 Gigabit RJ-45 Ethernet ports RS-232 serial port (DB-9) USB 2.0 Micro-B Connector 3 SMA antenna connectors (cellular, diversity, GNSS) 1 SMA for LTE-M version 1 RP SMA antenna connector (Wi-Fi) Active GNSS antenna support Aux Port (RS-485/GPIO)
WI-FI (Optional)	Dual Band 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

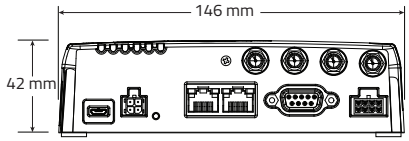
	Specification
SECURITY	Remote Authentication (LDAP, RADIUS, TACACS+) DMZ Inbound and Outbound Port filtering Inbound and Outbound Trusted IP MAC Address Filtering PCI compatible Secure Firmware Update
SATELLITE NAVIGATION GNSS (OPTIONAL)	Dedicated GNSS Receiver supporting GPS, GLONASS, BeiDou, Galileo 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

TECHNICAL SPECIFICATIONS

	Specification	
LAN (ETHERNET/USB)	DHCP Server	
	IP Passthrough	
	VLAN	
	Host Interface Watchdog	
	PPPoE	
SERIAL	TCP/UDP PAD Mode	
	Modbus (ASCII, RTU, Variable)	
	PPP	
	DNP3 Interoperability	
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)	
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	
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	
	Ignition Sense with time delay shutdown	
DIMENSIONS	146 mm x 42 mm x 100 mm (106 mm including connectors)	
	5.74 in x 1.65 in x 3.93 in (4.17 in including connectors)	
	250g (weight)	

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





	Specification
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
ENVIRONMENTAL	Operating Temperature: -30°C to +65°C / -22°F to +149°F
	Storage Temperature: -40°C to +85°C / -40°F to +185°F
	Humidity: 90% RH @ 60°C
	Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity
	IP20 rated ingress protection
INDUSTRY CERTIFICATIONS	Safety: IECE Certification Bodies Scheme (CB Scheme), UL 60950
	Vehicle Usage: ISO7637-2, SAE J1455 (Shock, Vibration, Electrical) Environmental: RoHS2, REACH, WEEE
	Hazardous Environments: Class 1 Div 2 - Ambient temperatures of -30°C to +60°C
	Environmental: RoHS2, REACH, WEEE
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
	1-day Accelerated Hardware Replacement available through participating resellers
ACCESSORIES	In the box: DC Power Cable and Quick Start Guide
	Other Accessories (sold separately):
	2000579 AC Adapter, 12VDC
	6001110 Cellular Paddle Antenna
	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)

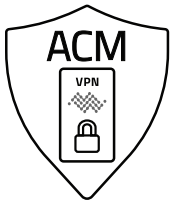
- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure

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

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