AirLink® LX60 Dual Ethernet LTE Router

BENEFITS

- Out-of-Box LTE Connectivity: Add LTE connectivity to your existing equipment
- Enables edge processing with optional secure linux-based embedded application framework (ALEOS Application Framework)
- Dual Ethernet, RS232 & RS485 and multiple I/O to connect to a wide variety of field equipment
- LTE and LTE-M/NB-IoT variants for global deployments, and extended coverage and depth (in-building and below ground) to reach challenging locations
- Integrated 7-36VDC industrial grade power supply and –30C to +65C temperature range to provide superior reliability without need for additional power conditioning or adapters
- ALMS Cloud or AMM On-Premises Management single-pane device management across all devices
- GNSS for fleets

IDEAL APPLICATIONS

Primary or backup connectivity for:

- IoT/M2M
- WAN Failover Applications
- Building Automation
- Digital Signage
- Taxis, Light Transport Vehicles
- ATMs, Kiosks, Point of Sale, Lottery

Dual Ethernet LTE Router, for Primary or Backup Connectivity

The AirLink® LX60 is designed for Commercial and Enterprise LTE network connectivity. Dual Gigabit Ethernet and serial ports make it ideal to connect machines and provide primary or backup network connectivity.

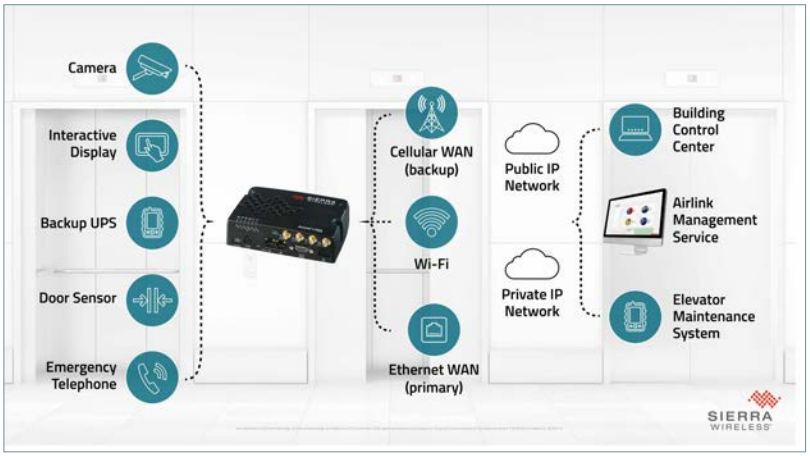
LX60 provides purpose-built, secure, reliable, managed Cellular LTE networking in Building Automation, Digital Signage, Taxis, ATMs, Kiosks and Point-of-Sale terminals.

As part of the AirLink Essential series, the LX60 is designed to meet the environmental and performance requirements of these applications, while delivering superior reliability and uninterrupted operation in fixed, indoor and protected outdoor environments.

LX60 is available with optional Wi-Fi + GNSS and rated for shock, vibration and vehicle power supplies. It offers Dual Band 802.11ac Wi-Fi and dedicated 48 Channel GNSS, meeting the demands of Commercial fleets and Taxis requiring connectivity.

The LX60 comes in LTE Cat 4 regional variants, and a Global LPWA (Low-Power Wide Area) variant offering LTE-M/NB-IoT for applications where low data rates, enhanced cellular coverage and global deployment is required.

Purpose-Built, Secure, Reliable, Managed Cellular LTE Networking



Application Example - Building Automation

AirLink® LX60
Dual Ethernet LTE Router

	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
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) Port Forwarding NEMO/DMNR VRRP Reliable Static Route Ethernet WAN Verizon PNTM IPv6 Gateway Policy Routing Dynamic DNS

	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
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 (whereapplicable)
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

SIERRA WIRELESS®

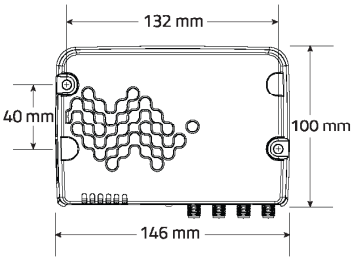
AirLink® LX60
Dual Ethernet LTE Router

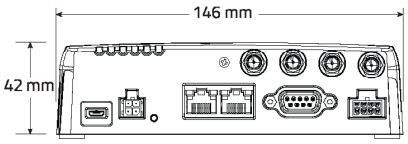
	Specification
VPN	IPsec, GRE, and OpenVPN Client
	Up to 5 concurrent tunnels
	Split Tunnel
	Dead Peer Detection (DPD)
ROUTER MANAGEMENT	Local web user interface
	AT Command Line Interface (Telnet/SSH/Serial)
	SNMP
	SMS Commands
APPLICATION	ALEOS Application Framework (AAF)
	LUA Scripting Language
POWER	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
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

DIMENSIONS





AirLink Networking Solution - Related Products

AIRLINK NETWORK MANAGEMENT SOLUTIONS

AIRLINK MANAGEMENT SERVICE (ALMS)

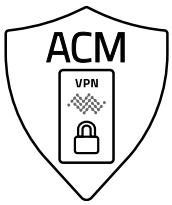
- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure

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

USAT
Connect What's Critical™

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About Sierra Wireless

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit www.sierrawireless.com.

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