



## AirLink® LX40 LTE Router

### BENEFITS

- Out-of-Box LTE Connectivity: Add LTE connectivity to your existing equipment
- 150 Mbps LTE with optional Wi-Fi, plus LTE-M/NB-IoT version with extended coverage and reach for challenging locations
- Enables edge processing with secure embedded application framework (ALEOS Application Framework)
- 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
- Power-over-Ethernet powered device (PD) for fixed low power applications
- ALMS Cloud or AMM On-Premises Management single pane device management across all devices

### IDEAL APPLICATIONS

Primary cellular connectivity for:

- IoT/M2M
- Camera, Security
- Digital Signage
- Building Automation
- ATMs, Kiosks, Point of Sale, Lottery
- Smart Lockers
- Industrial Process Automation

## Compact LTE Router for IoT Applications

The AirLink® LX40 is a compact LTE and LTE-M / NB-IoT router for IoT/M2M applications, offering “out-of-the box” connectivity that is simple to install, and easy to manage.

LX40 provides purpose-built, secure, managed LTE networking for applications such as Camera, Security, Point-of-Sale terminals and Smart Lockers. LX40 is also ideal for connecting industrial, remote data logging and sensing equipment in protected (indoor) locations, and enables processing of IoT data at the edge.

As part of the AirLink Essential series, the LX40 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.

LX40 is available with optional Wi-Fi with Dual Band 802.11ac to provide an access point or to connect to local Wi-Fi networks.

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



Application Example - Digital Signage

LX40

	North America Verizon	North America AT&T/Generic	EMEA	Australia & New Zealand	Global
	LTE				LTE-M/NB-IoT
<b>LTE CATEGORY</b>	Cat 4	Cat 4	Cat 4	Cat 4	Cat M1/NB1
Peak D/L	Up to 150 Mbps	Up to 150 Mbps	Up to 150 Mbps	Up to 150 Mbps	Cat-M1: 300kbps Cat-NB1: 27kbps
Peak U/L	Up to 50 Mbps	Up to 50 Mbps	Up to 50 Mbps	Up to 50 Mbps	Cat-M1: 375kbps Cat-NB1: 65kbps
<b>4G LTE</b>	AWS(B4), 700(B13)	1900(B2), AWS(B4), 850(B5), 700(B12)	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)
<b>3G WCDMA/HSPA+</b>		1900(B2), AWS(B4), 850(B5)	2100(B1), 900(B8)	2100(B1), 850(B5), 900(B8)	
<b>2G GSM/GPRS</b>			900, 1800		850, 900, 1800, 1900
<b>APPROVALS</b>					
<b>Regulatory</b>	FCC	FCC, IC, PTCRB	GCF, CE	GCF, RCM	PTCRB, FCC, GCF, IC
<b>Carrier</b>	Verizon	AT&T T-Mobile USA		Planned: Telstra	Planned: Verizon, AT&T T-Mobile USA
<b>PART NUMBERS</b>	1104176 1104177 (Wi-Fi)	1104178 1104179 (Wi-Fi)	1104181 1104182 (Wi-Fi)	1104183 1104184 (Wi-Fi)	1104180

Specification

<b>HOST INTERFACES</b>	1 Gigabit RJ-45 Ethernet Port USB 2.0 Micro-B Connector 2 SMA antenna connectors (cellular, diversity), 1 SMA for LTE-M version 1 RP SMA antenna connector (1x1 MIMO Wi-Fi)
<b>Wi-Fi (Optional)</b>	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 per channel Access Point or Client Mode (Wi-Fi as WAN) Single SSID Support Captive Portal
<b>INPUT/OUTPUT</b>	Configurable I/O pin on power connector <ul style="list-style-type: none"> <li>Digital Inputs: ON Voltage: 2.7 to 36 VDC</li> <li>Configurable Pull-ups for dry contact input</li> <li>Digital Open Collector Output &gt; sinking 500 mA</li> <li>Analog Inputs: 0.5-36VDC (range selectable)</li> </ul>
<b>LAN (ETHERNET/USB)</b>	DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE
<b>NETWORK AND ROUTING</b>	Network Address Translation Port Forwarding NEMO/DMNR VRRP Reliable Static Route
	Ethernet WAN Verizon PNTM IPv6 Gateway Policy Routing Dynamic DNS

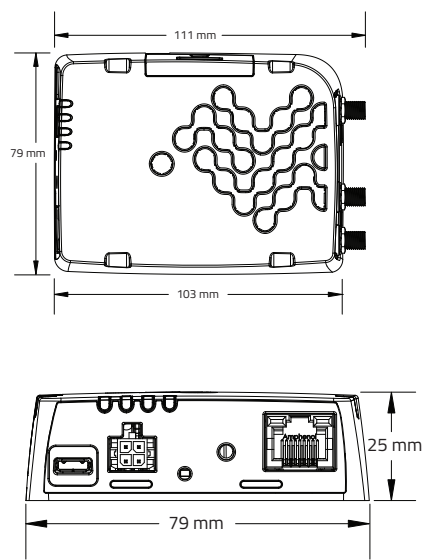
Specification

<b>SECURITY</b>	Remote Authentication (LDAP, RADIUS, TACACS+) DMZ Inbound and Outbound Port filtering Inbound and Outbound Trusted IP MAC Address Filtering PCI compatible Secure Firmware Update
<b>NETWORK MANAGEMENT</b>	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)
<b>EVENTS ENGINE</b>	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
<b>ENVIRONMENTAL</b>	Operating Temperature: -30°C to +65°C / -22°F to +149°F (+60°C / +140°F when using PoE) 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 IP21 rated ingress protection

<b>VPN</b>	IPsec, GRE, and OpenVPN Client Up to 5 concurrent tunnels Split Tunnel Dead Peer Detection (DPD)
<b>ROUTER MANAGEMENT</b>	Local web user interface AT Command Line Interface (Telnet/SSH) SNMP SMS Commands
<b>APPLICATION</b>	ALEOS Application Framework (AAF) Lua Scripting Language
<b>POWER</b>	Input Voltage: 7 to 36 VDC Low voltage disconnect to prevent battery drain Built-in protection against voltage transients Power-over-Ethernet (PoE) powered device Ignition Sense with time delay shutdown
<b>DIMENSIONS</b>	103 mm (111 mm including connectors) x 79 mm x 25 mm 4.1 in (4.4 in including connectors) x 3.1 in x 1.0 in

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

**DIMENSIONS**



**Specification**

<b>INDUSTRY CERTIFICATIONS</b>	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 Environmental: RoHS2, REACH, WEEE
<b>SUPPORT AND WARRANTY</b>	3-year standard warranty; Optional 2-year warranty extension Unrestricted device software upgrades 1-day Accelerated Hardware Replacement available through participating resellers
<b>ACCESSORIES</b>	In the box: DC Power Cable and Quick Start Guide Other Accessories (sold separately): 2000579 AC Adapter, 12VDC 6001221 LX40 Mounting Bracket with DIN rail clip 6001110 Cellular Paddle Antenna 6001111 Wi-Fi 2.4/5Hz Paddle Antenna See website for more antenna options.

**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

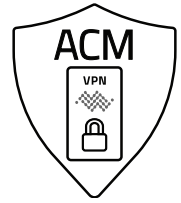
**AIRLINK MANAGER / MOBILITY MANAGER (AM/AMM)**



- 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

**About Sierra Wireless**

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is an IoT pioneer, empowering businesses and industries to transform and thrive in the connected economy. Customers Start with Sierra because we offer a device-to-cloud solution, comprised of embedded and networking solutions seamlessly integrated with our IoT services. OEMs and enterprises worldwide rely on our expertise in delivering fully integrated solutions to reduce complexity, turn data into intelligence and get their connected products and services to market faster. Sierra Wireless has more than 1,400 employees globally and operates R&D centers in North America, Europe and Asia.

For more information, visit [www.sierrawireless.com](http://www.sierrawireless.com).

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