



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



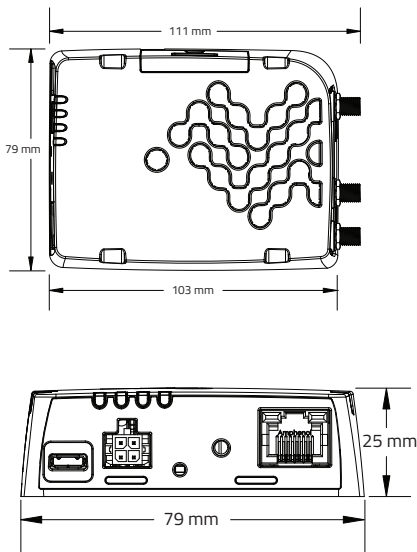
Application Example - Digital Signage

LX40						
		North America Verizon	North America AT&T/Generic	EMEA	Australia & New Zealand	Global
		LTE				LTE-M/NB-IoT
LTE CATEGORY		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
4G LTE Frequency Bands		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)
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	FCC, IC, PTCRB	GCF, CE	GCF, RCM	PTCRB, FCC, GCF, IC
Carrier		Verizon	AT&T T-Mobile USA		Planned: Telstra	Planned: Verizon, AT&T T-Mobile USA
PART NUMBERS		1104176 1104177 (Wi-Fi)	1104178 1104179 (Wi-Fi)	1104181 1104182 (Wi-Fi)	1104183 1104184 (Wi-Fi)	1104180
		Specification			Specification	
HOST INTERFACES		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)			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
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 per channel Access Point or Client Mode (Wi-Fi as WAN) Single SSID Support Captive Portal			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)
INPUT/OUTPUT		Configurable I/O pin on power connector <ul style="list-style-type: none"> Digital Inputs: ON Voltage: 2.7 to 36 VDC Configurable Pull-ups for dry contact input Digital Open Collector Output > sinking 500 mA Analog Inputs: 0.5-36VDC (range selectable) 			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
LAN (ETHERNET/USB)		DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE			ENVIRONMENTAL	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
NETWORK AND ROUTING		Network Address Translation Port Forwarding NEMO/DMNR VRRP Reliable Static Route	Ethernet WAN Verizon PNTM IPv6 Gateway Policy Routing Dynamic DNS			

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) 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 Power-over-Ethernet (PoE) powered device Ignition Sense with time delay shutdown
DIMENSIONS	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

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 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 6001221 LX40 Mounting Bracket with DIN rail clip 6001110 Cellular Paddle Antenna 6001111 Wi-Fi 2.4/5Hz Paddle Antenna

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.

Sierra Wireless, the Sierra Wireless logo, AirPrime, AirLink, AirVantage and the red wave design are trademarks of Sierra Wireless. Other registered trademarks that appear on this brochure are the property of the respective owners. © 2018 Sierra Wireless, Inc. 2018.12.19

