AirLink® LX40 LTE Router

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.

The LX40 provides purpose-built, secure, managed LTE networking for applications such as Cameras, Security, Point-of-Sale terminals and Smart Lockers. The 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

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
- Cameras and Security
- Digital Signage
- Building Automation
- ATMs, Kiosks, and Point of Sale
- Smart Lockers
- Industrial Process Automation

Application Example - Digital Signage

LX40			
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(B14), 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	PTCRB, FCC, GCF, IC, CE
Carrier			
Verizon, AT&T		Planned: Telstra	Verizon (Cat-M1), AT&T (Cat-M1)
PART NUMBERS			
1104579 1104573 (WiFi)	1104181 1104182 (Wi-Fi)	1104183 1104184 (Wi-Fi)	1104180

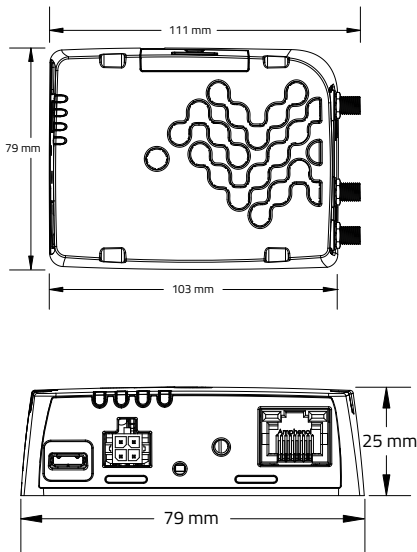|	**Specification**		**Specification**
HOST INTERFACES	1 Gigabit RJ-45 Ethernet Port (POE) USB 2.0 Micro-B Connector 2 SMA antenna connectors (cellular, diversity) 1 SMA for LTE-M version 1 RP SMA antenna connector (Wi-Fi)	**SECURITY**	Remote Authentication (LDAP, RADIUS, TACACS+) DMZ Inbound and Outbound 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 • 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)		
LAN (ETHERNET/USB)	DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE	**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
NETWORK AND ROUTING	Network Address Translation Ethernet WAN Port Forwarding Verizon PNTM NEMO/DMNR IPv6 Gateway VRRP Policy Routing Reliable Static Route Dynamic DNS	**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
VPNINTERFACES	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	**INDUSTRY CERTIFICATIONS**	Safety: IECEE 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

SIERRA WIRELESS®

	Specification
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.

	Specification
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 DIN Rail Bracket
	6001110 Cellular Paddle Antenna
	6001111 Wi-Fi 2.4/5Hz Paddle Antenna
	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
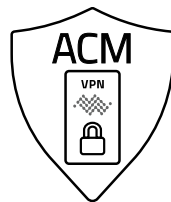- Carrier-grade, high availability, secure, global infrastructure

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

Contact USAT

605 Eastowne Drive
Chapel Hill, NC 27514

Phone: (888) 550-8728
Email: info@usatcorp.com
Web: https://usatcorp.com

SIERRA WIRELESS®