



**Ultra Compact
LTE Commercial
Router for Security
Cameras, Digital
Signage, IoT
and Small Business**

LX40 Product Description

The AirLink® LX40 is a compact LTE router offering “out-of-the box” LTE and Wi-Fi connectivity that is simple to install. Supports security, digital signage and IoT applications in fixed, protected environments.

AIRLINK LX40 LTE

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

Ideal Applications

IoT and enterprise applications including:

- Surveillance cameras
- Digital signage
- POS terminals
- Smart lockers
- Small business connectivity
- Distance learning

Benefits

- Out-of-the-box connectivity speeds time to operation
- Connect to a wide variety of devices from video to low-power IoT
- Compact size helps expand application deployment
- Leverage the world of IoT to drive new business opportunities
- Remote router management and comprehensive services through AirLink Complete

LX40 Services and Support



AIRLINK COMPLETE

Maximize your AirLink LX40 hardware investment with AirLink Complete – a comprehensive service package designed to empower you with the tools and support necessary to secure, optimize and effortlessly scale your LX40 deployments.

AirLink Complete includes*:

- **AirLink Management Service (ALMS)** for remote device and security management
- **Expert technical support**
- **Extended hardware warranty** – up to 5 years maximum
- For more information on AirLink Complete visit our [web page](#)

**With active subscription. 1-year subscription included with the LX40 purchase*



AIRLINK PREMIUM

Ideal for organizations managing mission-critical vehicle fleets, this service upgrade encompasses all the benefits of [AirLink Complete](#)*, enhanced with:

- **Advanced Mobility Reporting***: Offers comprehensive coverage and fleet reporting to monitor your network and vehicles.
- **Advance Replacement***: Provides same-day shipping for in-warranty router replacements, minimizing downtime, spare inventory and keeping your operations running smoothly.

**With active subscription.*



ANTENNAS

- Tested and certified to provide guaranteed performance with all AirLink routers
- Accelerate deployment with always-on, end-to-end connectivity
- For more information on antennas specific to the LX40 router visit our [web page](#)

AirLink LX40 – Router Specifications

CELLULAR	
Peak D/L	
North America	Up to 150 Mbps, Cat-4
EMEA	Up to 150 Mbps, Cat-4
AU&NZ	Up to 150 Mbps, Cat-4
Peak U/L	
North America	Up to 50 Mbps
EMEA	Up to 50 Mbps
AU&NZ	Up to 50 Mbps
4G LTE	
Frequency Bands	
North America	B1, B4, B5, B12, B13, B14, B17, B66
EMEA	B1, B3, B7, B8, B20, B28
AU&NZ	B1, B3, B5, B7, B8, B28
3G WCDMA/HSPA+	
Frequency Bands	
North America	B2, B4, B5
EMEA	B1, B8
AU&NZ	B1, B5, B8
2G GSM/GPRS	
EMEA	900, 1800

APPROVALS	
Regulatory	
North America	FCC, IC/ISED, PTCRB
EMEA	GCF, CE
AU&NZ	GCF, RCM
Carrier	
North America	AT&T, FirstNet® Trusted*, Verizon, T-Mobile
PART NUMBERS	
North America	1104579, 1104573 (WiFi)
EMEA	1104181, 1104182 (Wi-Fi)
AU&NZ	1104183, 1104184 (Wi-Fi)
HOST INTERFACES	
1 Gigabit RJ-45 Ethernet Port (POE) USB 2.0 Micro-B Connector 2 SMA antenna connectors (cellular, diversity) 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 Secure Firmware Update	

* Requires device management via AirLink Management Service (ALMS)



AirLink LX40 – Router Specifications

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
LAN (ETHERNET/USB)	
	DHCP Server IP Passthrough VLAN Host Interface Watchdog PPPoE
ENVIRONMENTAL	
Temperature	Operating Temperature: -20°C to +65°C / -4°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
POWER	
Input/Operating Voltage	7 to 36 VDC
Power modes	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
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)
NETWORK AND ROUTING	
	Network Address Translation (NAT) Reliable Static Route Port Forwarding Dynamic DNS Policy Routing Verizon PNTM NEMO/DMNR IPV6 Gateway VRRP
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) SNMP SMS Commands
APPLICATION FRAMEWORK	
	ALEOS Application Framework (AAF) LUA Scripting Language
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
INDUSTRY CERTIFICATIONS	
Safety	IECCE Certification Bodies Scheme (CB Scheme) CSA-C22.2 No. 62368-1, UL 62368-1, EN/IEC 62368-1**
Vehicle Usage	E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock, Vibration, Electrical)
Environmental	RoHS2, REACH, WEEE
Public Safety	FirstNet® Trusted***

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

** Ambient temperatures of -30°C to +60°C

*** Requires device management via AirLink Management Service (ALMS).



AirLink LX40 – Router Specifications

AIRLINK COMPLETE (1 Year Included With Router Purchase)	
Support	24/7 technical support*
Hardware Warranty	1-year standard hardware warranty Extended hardware warranty up to 5 years with current subscription**
Device Management	AirLink Management Service (ALMS)*
Software Updates	Unrestricted critical firmware updates through at least December 31st, 2029
AIRLINK PREMIUM (Optional Upgrade) Includes All Airlink Complete Features* and Adds:	
Advanced Mobility Reporting	Coverage and fleet reporting***
Advance Replacement	Same-day shipping for in-warranty router replacements***

*With current AirLink Complete subscription

**Full warranty terms are available at www.sierrawireless.com/end-user-warranty

***With current AirLink Premium subscription

ACCESSORIES

In the box	LX40, DC Power Cable, AirLink Complete leaflet 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
	For antenna options visit: Semtechwireless.com/antennas

CONSTRUCTION

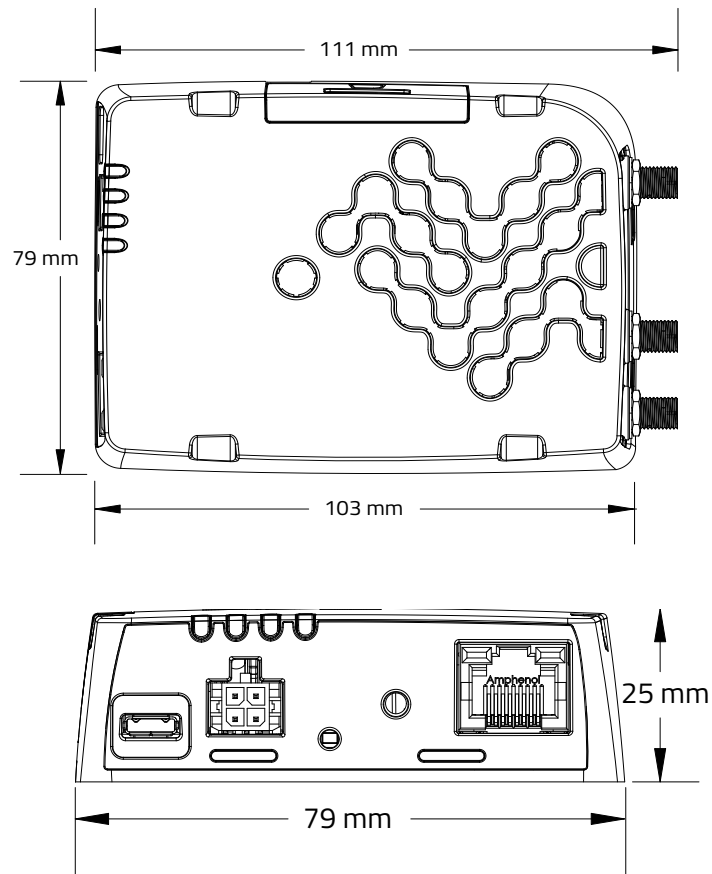
Polycarbonate housings that meet MIL-810/IP21 environmental standards.

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
Weight: 250g



AirLink LX40 – Router Dimensions Diagram



About Semtech

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

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