



AirLink[®] LX40 LTE Router

BENEFITS

- Out-of-Box LTE Connectivity: Add LTE connectivity to your existing equipment
- 150Mbps 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.

The LX40 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 - Digital Signage

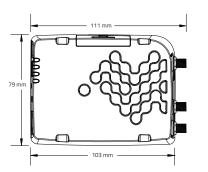
		LX40				
	North America Verizon	North America AT&T/Generic	EMEA	Australia & New Zealand	Global	
	-		LTE		LTE-M/NB-IoT	
LTE CATEGORY	Cat 4	Cat 4	Cat 4	Cat 4	Cat M1/NB1	
Peak D/L	Up to 150 Mbps	Up to 150 Mbps	Up to 150 Mbps	Up to 150 Mbps	Cat-M1: 300kbps Cat-NB1: 27kbps	
Peak U/L	Up to 50 Mbps	Up to 50 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	1104178	1104181	1104183	1104180	
	1104177 (Wi-Fi)	1104179 (Wi-Fi)	1104182 (Wi-Fi)	1104184 (Wi-Fi)		
	Specification			Specification		
HOST INTERFACES		1 Gigabit RJ-45 Ethernet Port		SECURITY Remote Authentication (LDAP, RADIUS, TACACS+) DMZ Inbound and Outbound Port filtering Inbound and Outbound Trusted IP		
	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)			MAC Address Filtering		
			_	PCI compatible		
WI-FI (Optional)		Dual Band 2.4/5GHz Wi-Fi		Secure Firmware Update		
	0	802.11 b/g/n/ac (Wave2 Client Mode)			sset management application	
		Support for 10 clients, WPA2 Enterprise		available in the cloud or licensed platform in the enterprise data center Fleet wide firmware upgrade delivery		
	Output power 16dBm per channel					
	Single SSID Support	Access Point or Client Mode (Wi-Fi as WAN)		Router configuration and te		
INPUT/OUTPUT	Captive Portal			Router staging over the air	and local Ethernet connection	
		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		Over-the-air software and	radio module firmware updates	
	Digital Inputs: ON Voltage:			Device Configuration Templ	ates	
				Configurable monitoring an	d alerting	
	 Analog Inputs: 0.5-36VDC (range selectable) 			Remote provisioning and ai	rtime activation (where applicable	
LAN (ETHERNET/USB)	DHCP Server		EVENTS ENGINE	Custom event triggers and		
	IP Passthrough			Configurable interface, no p	0 0	
	VLAN	5			letwork Parameters, Data Usage, erature and Voltage Report Types:	
	Host Interface Watchdog			RAP, SMS, Email, SNMP Tra		
	PPPoE			Event Actions: Drive Relay (
NETWORK AND ROUTING	Network Address Translation	Ethernet WAN	ENVIRONMENTAL	Operating Temperature: -30		
	Port Forwarding Verizon PNTM			+145°F (+60°C / +140°F v Storage Temperature: -40°	0 ,	
	NEMO/DMNR	IPv6 Gateway		+185°F	ιυτού ι/-40 FlU	
	VRRP	Policy Routing		Humidity: 90% RH @ 60°C		
	Reliable Static Route	Dynamic DNS		Military Spec MIL-STD-810 vibration, thermal shock, ar IP21 rated ingress protectio	nd humidity	

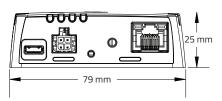


	Specification		Specification	
VPN	IPsec, GRE, and OpenVPN Client	INDUSTRY	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950 Vehicle Usage: E-Mark (UN ECE Regulation 10.04), ISO7637- 2, SAE J1455 (Shock, Vibration, Electrical) Environmental: RoHS2, REACH, WEEE Environmental: RoHS2, REACH, WEEE	
	Up to 5 concurrent tunnels	CERTIFICATIONS		
	Split Tunnel			
	Dead Peer Detection (DPD)			
ROUTER MANAGEMENT	Local web user interface			
	AT Command Line Interface (Telnet/SSH)	SUPPORT AND	3-year standard warranty; Optional 2-year warranty	
	SNMP	WARRANTY	extension	
	SMS Commands		Unrestricted device software upgrades	
APPLICATION FRAMEWORK	ALEOS Application Framework (AAF)		1-day Accelerated Hardware Replacement available through participating resellers In the box: DC Power Cable and Quick Start Guide	
	LUA Scripting Language			
POWER	Input Voltage: 7 to 36 VDC	ACCESSORIES		
	Low voltage disconnect to prevent battery drain		Other Accessories (sold separately):	
	Built-in protection against voltage transients		2000579 AC Adapter, 12VDC	
	Power-over-Ethernet (PoE) powered device		6001221 LX40 Mounting Bracket with DIN rail clip	
	Ignition Sense with time delay shutdown		6001110 Cellular Paddle Antenna 6001111 Wi-Fi 2.4/5Hz Paddle Antenna	
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		See website for more antenna options.	

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

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

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.



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