



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

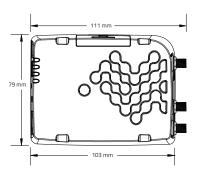
| | | LX40 | | | | |
|-----------------------------------|---|---|---|--|--|--|
| | North America Verizon | North America AT&T/Generic | EMEA | Australia & New Zealand | Global | |
| | - | | LTE | | LTE-M/NB-IoT | |
| LTE CATEGORY | Cat 4 | Cat 4 | Cat 4 | Cat 4 | Cat M1/NB1 | |
| Peak D/L | Up to 150 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 | |

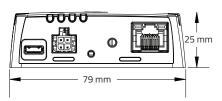


| | Specification | | Specification | |
|-----------------------|--|----------------|--|--|
| VPN | IPsec, GRE, and OpenVPN Client | INDUSTRY | Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950 Vehicle Usage: E-Mark (UN ECE Regulation 10.04), ISO7637- 2, SAE J1455 (Shock, Vibration, Electrical) 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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