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

Connected Digital Signage

Application Example - Digital Signage
## AirLink® LX40

**LTE Router**

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### LX40

<table>
<thead>
<tr>
<th></th>
<th>North America</th>
<th>EMEA</th>
<th>Australia &amp; New Zealand</th>
<th>Global</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LTE Category</strong></td>
<td>Cat-4 (WP7610)</td>
<td>Cat-4 (WP7607)</td>
<td>Cat-4 (WP7609)</td>
<td>Cat-M1/NB-IoT (WP7702)</td>
</tr>
<tr>
<td>Peak D/L</td>
<td>Up to 150 Mbps</td>
<td>Up to 150 Mbps</td>
<td>Up to 150 Mbps</td>
<td>Cat-M1: 375kbps</td>
</tr>
<tr>
<td>Peak U/L</td>
<td>Up to 50 Mbps</td>
<td>Up to 50 Mbps</td>
<td>Up to 50 Mbps</td>
<td>Cat-NB1: 65kbps</td>
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<td>4G LTE</td>
<td>1900(B2), AWS(B4), 850(B5), 700(B12), 700(B13), 700(B14), 700(B17), 1700(B66)</td>
<td>2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20), 700(B28)</td>
<td>2100(B1), 1800(B3), 850(B5), 900(B8), 700(B28)</td>
<td>2100(B1), 1900(B2), 1800(B3), 850(B5), 900(B8), 700(B12), 700(B13), 700(B17), 850(B18), 850(B19), 800(B20), 850(B26), 700(B28)</td>
</tr>
<tr>
<td>Frequency Bands</td>
<td>900, 1800</td>
<td>900, 1800</td>
<td>850, 900, 1800, 1900</td>
<td></td>
</tr>
<tr>
<td>3G WCDMA/HSPA+</td>
<td>1900(B2), AWS(B4), 850(B5)</td>
<td>2100(B1), 900(B8)</td>
<td>2100(B1), 850(B5), 900(B8)</td>
<td></td>
</tr>
<tr>
<td>Frequency Bands</td>
<td>900, 1800</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carrier</td>
<td>Verizon, AT&amp;T</td>
<td>Planned: Telstra</td>
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<tr>
<td>PART NUMBERS</td>
<td>1104579, 1104573 (WiFi)</td>
<td>1104181, 1104182 (Wi-Fi)</td>
<td>1104183, 1104184 (Wi-Fi)</td>
<td>1104180</td>
</tr>
</tbody>
</table>

### 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)

**WI-FI (Optional)**
- Dual Band 2.4/5GHz Wi-Fi
- Support for 10 clients, WPA2 Enterprise
- Output power 16dBm per channel
- Single SSID Support
- Captive Portal

**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

**NETWORK AND ROUTING**
- Network Address Translation
- Port Forwarding
- NEMO/DMHMR
- IPv6 Gateway
- IPv6 Route
- Reliable Static Route
- Dynamic DNS

**VPN INTERFACES**
- 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

### 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

### 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)

### 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

### 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

### Industry Certifications

- Safety: IEEE Certification Bodies Scheme (CB Scheme), UL 60950
- Vehicle Usage: E-Mark (UN ECE Regulation 10.04), ISO 7637-2, SAE J1655 (Shock, Vibration, Electrical) Environmental: RoHS2, REACH, WEEE
- Environmental: RoHS2, REACH, WEEE
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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