



## Sierra Wireless® AirLink® LS300 Industrial Gateway

### BENEFITS

- Intelligence that makes it quick to deploy and simple to manage
- Reliable connectivity that ensures it stays connected to the network
- Rugged design that lasts for years in the harshest environments
- Application framework that makes it easy to program
- Integration with AirLink Management Service (ALMS) for building innovative applications and services
- 3-year warranty

### Compact industrial 3G gateway

The AirLink® LS300 industrial gateway has a small footprint for easy installation and a rugged, military spec design (MIL-STD 810) that enables it to withstand extreme temperature changes, humidity, shock, and vibration. Certified for hazardous environments (Class I, Div 2), the LS300 is ideal for industrial deployments.

The LS300 comes standard with Ethernet, USB and serial interfaces, as well as digital I/O and GPS, enabling you to:

- Remotely monitor and control your infrastructure and surveillance equipment on pipelines, meters, pumps and valves in any energy, utility or industrial application.
- Instantly connect your equipment at remote locations or temporary sites.
- Track the location of heavy equipment and assets in the field, while providing reliable internet connectivity to remote workers.

### QUICKLY CONFIGURE AND DEPLOY

The comprehensive set of configurable options makes it quick and easy to deploy in the field. With ALEOS™ embedded intelligence, the LS300 can be deployed in most industrial applications out-of-the-box.

In addition to configuring connection settings, ALEOS enables users to setup custom security, networking, and routing parameters, GPS location tracking, and events reporting without any programming. With a proven 20-year track record of over a million deployed devices, ALEOS has been developed to ease integration and configuration for a wide range of deployment scenarios.

### ADD CUSTOM LOGIC WITHOUT ANY EMBEDDED EXPERTISE

ALEOS Application Framework and integrated development environment make it easy to process data inside the LS300. Collect and analyze information from connected equipment and optimize data transfers using a simple, Lua-based scripting language. Now you can program an AirLink gateway without deep embedded expertise.

|                 | Specification                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3G HSPA+ MODELS | <p>Fallback to GSM/GPRS/EDGE</p> <ul style="list-style-type: none"> <li>800/850/1900/2100 MHz HSPA+ Sierra Wireless SL8090 Radio Module</li> <li>900/2100 MHz HSPA+ Sierra Wireless SL8092 Radio Module</li> </ul> <p>Peak HSPA data rates</p> <ul style="list-style-type: none"> <li>Download: 14.4 Mbps</li> <li>Upload: 5.76 Mbps</li> </ul> <p>SIM Interface (2FF)</p>                                                 |
| 3G EV-DO MODELS | <p>Fallback to CDMA 1xRTT</p> <ul style="list-style-type: none"> <li>Rev. A 800/1900 MHz Sierra Wireless SL5011 Radio Module</li> </ul> <p>Peak CDMA data rates</p> <ul style="list-style-type: none"> <li>Download: 3.1 Mbps</li> <li>Upload: 1.8 Mbps</li> </ul> <p>SIM Interface (2FF)</p>                                                                                                                              |
| HOST INTERFACES | <p>10/100 Base-T RJ45 Ethernet</p> <p>RS-232 serial port</p> <p>USB V2.0 Micro-B connector</p> <p>2 SMA antenna connectors (Primary, GPS/Diversity)</p> <p>Active antenna support</p> <p>PPPoE</p>                                                                                                                                                                                                                         |
| INPUT/OUTPUT    | <p>Configurable I/O pin on power connector</p> <ul style="list-style-type: none"> <li>Digital Input ON Voltage: 3.3 to 30 VDC</li> <li>Digital Input OFF Voltage: 0 to 1.2 VDC</li> <li>Analog Input Voltage 0 to 30 VDC</li> <li>Open collector output &gt; 200mA @ 30VDC</li> </ul>                                                                                                                                      |
| GPS TECHNOLOGY  | <p>HSPA+ Models</p> <ul style="list-style-type: none"> <li>Acquisition Time: &lt;3 Sec Hot Start, &lt;45 Sec Cold Start</li> <li>Accuracy: &lt;10m</li> <li>Tracking Sensitivity: -155 dBm</li> </ul> <p>EV-DO Models</p> <ul style="list-style-type: none"> <li>Acquisition Time: 9 sec Hot Start, &lt;39 Sec Cold Start</li> <li>Accuracy: &lt;3m (50%), &lt;8m (90%)</li> <li>Tracking Sensitivity: -160 dBm</li> </ul> |
| PROTOCOLS       | <p>Network: TCP/IP, UDP/IP, DNS</p> <p>Routing: NAT, Host Port Routing, DHCP, PPPoE, VLAN, VRRP, Reliable Static Route</p> <p>Application: SMS, Telnet/SSH, Reverse Telnet, SMTP, SNMP, SNTP</p> <p>Serial: TCP/UDP PAD Mode, Modbus (ASCII, RTU, Variable), PPP</p> <p>GPS: NMEA 0183 V3.0, TAIP, RAP</p>                                                                                                                 |

|                         | Specification                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EVENTS REPORTING        | <p>Event Types: Digital Input, GPS/AVL, Network Parameters, Data Usage, Timer, Power, Device Temperature</p> <p>Report Types: SMS, Email, SNMP Trap, Relay Output, GPS Rap Report, Events Protocol Message to Server</p>                                                                     |
| VPN/SECURITY            | <p>IPsec, SSL, and GRE VPN Client</p> <p>Up to 5 VPN Tunnels</p> <p>IKE Encryption</p> <p>Port Forwarding and DMZ</p> <p>Port Filtering</p> <p>Trusted IP</p> <p>MAC Address Filtering</p>                                                                                                   |
| DEVICE MANAGEMENT       | <p>AirLink Management Service cloud-based device management application</p> <p>ACEManager™ device configuration utility</p>                                                                                                                                                                  |
| DIMENSIONS              | <p>3.0 in x 3.5 in x 1.0 in (76 mm x 90 mm x 25 mm)</p> <p>6.7 oz (190G)</p>                                                                                                                                                                                                                 |
| POWER CONSUMPTION       | <p>All figures in mA @ 12VDC</p> <ul style="list-style-type: none"> <li>HSPA+: Idle 224, Typ 245, Max 430</li> <li>CDMA: Idle 220, Typ 257, Max 427</li> <li>Low Power Standby Mode: &lt;68</li> </ul> <p>Analog Ignition Sense &amp; Power Management</p> <p>Input Voltage: 7 to 28 VDC</p> |
| ENVIRONMENTAL           | <p>Operating Temperature:<br/>-30°C to +70°C / -22°F to +158°F</p> <p>Storage Temperature:<br/>-40°C to +85°C / -40°F to +185°F</p> <p>Humidity: 90% RH @ 60 °C</p> <p>Military Spec MIL-STD-810 conformance to thermal, mechanical shock and humidity</p>                                   |
| INDUSTRY CERTIFICATIONS | <p>PTCRB, R&amp;TTE, FCC, Industry Canada, CE, RoHS Compliant, Class 1 Div 2.</p> <p>Vehicle Usage: E-Mark (2009/19/EC), ISO7637-2</p>                                                                                                                                                       |

#### About Sierra Wireless

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit [www.sierrawireless.com](http://www.sierrawireless.com).