AirLink® GX400 Mulitpurpose Intelligent Gateway

Fully Featured for Mobile and Fixed Environments

RUGGED VERSATILITY
The AirLink GX400 multi-purpose intelligent gateway is ideal for a myriad of machine-to-machine applications. A small, rugged form factor and multiple interfaces give the GX400 the versatility for location-aware applications in mobile and fixed environments at an affordable price.

EXPANDABLE, FLEXIBLE, MODULAR PLATFORM
The GX400 achieves high performance and reliability, and offers GPS, 3G mobile broadband connectivity, and ALEOS intelligence. An expansion slot enables the easy addition of I/O and communications ports, providing unparalleled flexibility and versatility. The existence of the expansion slot on the GX400 enables feature additions without comprehensive design changes and/or further certification.

The GX400 is designed for use in mobile environments (AVL/tracking, field service, public safety) or fixed/portable settings (industrial, utilities, security, enterprise, point-of-sale). A “one device fits all” solution allows customers to deploy and manage the same device for multiple applications, simplifying deployment and management.

RUGGED INTELLIGENCE
AirVantage™ Management Service facilitates the comprehensive remote management capabilities of our AirLink devices to enable remote configuration, administration, and control of deployments of any size, from one device to thousands.

REMOTE MANAGEMENT
ALEOS facilitates the comprehensive remote management capabilities of our AirLink device management tools to enable remote configuration, administration, and control of deployments of any size, from one device to thousands.

INTELLIGENCE ON THE EDGE MADE EASY
The new ALEOS Application Framework is a powerful embedded software environment that helps accelerate M2M solutions development. By leveraging ALEOS embedded intelligence for foundational M2M features, ALEOS AF provides the best of both worlds by supporting both out-of-the-box configuration with a programming environment to build customized solutions.

ALEOS AF enables developers to concentrate their development resources on building their specific application.
Technical Specifications

PRODUCT FEATURES
• ALEOS Embedded Intelligence
• Comprehensive device management and configuration
• Highly configurable with easy to use interface
• AirLink Configurable Rules Engine
• ALEOS Application Framework for custom M2M application development
• Expansion card slot
• Rugged design
• Multiple connection options
• Robust ARM 11-class processor
• 5 Year Warranty

SECURITY
• Onboard IPsec SSL VPN Client
• VPN Pass-Through (AH protocols)
• GRE Tunneling
• MAC Address Filtering
• IP Filtering
• Port Filtering
• SSH
• HTTPS

GPS TECHNOLOGY
• Precision GPS
• Time to First Fix: 39 sec.
• Garmin FMI support
• Accuracy: 3M 68% CEP

TECHNOLOGY
• HSPA+ with fallback to: HSPA, HSDPA, UMTS, EDGE, GPRS or
• EV-DO Rev. A with fallback to: CDMA EV-DO (Rev. 0), CDMA 1xRTT

BANDS
• Quad-Band HSUPA 850, 900, 1900, 2100 MHz
• Quad-Band GSM/GPRS 850, 900, 1800, 1900 MHz or
• Dual Band EV-DO Rev. A 800, 1900 MHz

ENVIRONMENTAL
• Operating Temperature: -30°C to +70°C / -22°F to +158°F
• Storage Temperature: -40°C to +85°C / -40°F to +185°F

DIMENSIONS
• 143 mm x 96 mm x 44 mm
• 5.6 in x 3.8 in x 1.7 in
• 341 grams
• 12 oz

STANDARDS/APPROVALS
• FCC, Industry Canada
• RoHS Compliant
• CE, E-Mark
• Mil-Spec 810-F, IP64
• Class 1 Div 2
• Carrier Specific Approvals

HOST INTERFACES
• 10/100 Base-T RJ45 Ethernet
• RS-232 Serial Port
• USB On The Go
• 1 Digital I/O Port
• Wi-Fi access point or client (optional expansion card)
• 3 SMA Antenna Connectors (RF, GPS, Rx Diversity)

APPLICATIONS:
• Field Service
• Energy + Utilities
• Security Surveillance
• Retail / Point-of-Sale
• Infrastructure Monitoring
• Digital Signage
• Automatic Vehicle Location

APPLICATION INTERFACES
• TCP/IP, UDP/IP, DHCP, HTTP, NMEA, TAIP, TSIP, GPS

LED INDICATORS
• Network
• Signal Strength
• Activity
• Power/GPS
802.11b/g/n Option for AirLink Gateways

UNPARALLELED VERSATILITY
Sierra Wireless has designed our GX platform devices with one of the most unique features on the market. An expansion slot creates limitless opportunities for flexibility and scalability for customers in a wide array of markets and applications. The expansion slot provides versatility by enabling hardware feature additions to the GX400 and GX440 gateways, with no modifications required to the base hardware design. All expansion cards utilize the same physical form-factor and electrical interface to the AirLink gateway.

The rugged design, included active GPS functionality, comprehensive configuration of over 500 options, and remote management capabilities make the AirLink GX400 and GX440 a perfect solution for mobile or fixed applications. The addition of the expansion slot to the design makes the GX platform the most versatile cellular device on the market.

EXPANDING FUNCTIONALITY, EXTENDING YOUR BUSINESS
Utilizing the expansion slot in the AirLink GX platform of intelligent gateways, the Wi-Fi Expansion Card (Wi-Fi X-Card) dramatically increases the capability of the device by providing 802.11b/g/n Access Point (hotspot) or Client Mode functionality. This enables applications for mobile office, temporary office locations, mission critical environments and more.

Customers can order their GX device with the Wi-Fi expansion card pre-installed at the time of original order or retrofit the X-card into a already deployed GX400 or GX440 by sending it to an authorized installation center.

WI-FI ACCESS POINT (HOTSPOT) OR CLIENT
The Wi-Fi X-Card is a standards-based wireless local-area network (WLAN) card, enabling communication with any other WLAN equipped device, including laptops, smartphones, printers, fingerprint readers and much more. The card seamlessly integrates with the GX device and configuration is easily performed through the web-based graphical interface and ALEOS embedded intelligence. The Wi-Fi X-Card can also operate in client mode giving you the ability to connect to your own Access Point and give the flexibility of using your Wi-Fi network instead of the cellular network when available. All Wi-Fi parameter settings (such as security encryption) are available through point-and-click menu-driven web pages.
## Technical Specifications

### FEATURES
- IEEE 802.11b/g/n
- Access point & client modes
- Integrated antenna connector
- Security: WEP, WEA, WPA-2 (AES)

### SECURITY
- Onboard IPsec SSL VPN Client
- VPN Pass-Through (AH protocols)
- GRE Tunneling
- MAC Address Filtering
- IP Filtering
- Port Filtering
- SSH
- HTTPS

### SPECIFICATIONS
- Frequency: 2.4 GHz
- Modulation: OFDM (Orthogonal Frequency Division Multiplexing), DSSS (Direct Sequence Spread Spectrum)
- Antenna Connector: SMA-RP (reverse-polarity)
- Throughput: Up to 150Mbps (theoretical) utilizing 802.11n
- Output Power: 15dBm
- Hotspot: up to 8 clients

### ENVIRONMENTAL
- Operating Temperature: -30°C to +70°C / -22°F to +158°F
- Storage Temperature: -40°C to +85°C / -40°F to +185°F

### DIMENSIONS
- 58.0 mm x 35.7 mm
- 2.2 in x 1.4 in

### STANDARDS/APPROVALS
- FCC
- Mil-Std-810F
- IEC 60068
- IEC 61000
- IP64

### APPLICATIONS:
- Field Service/Mobile Office
- First Responders
- Small Office/Home Office
- Retail / Point-of-Sale
- Temporary Office Locations
- Digital Signage

Sierra Wireless, the Sierra Wireless logo, AirLink, ALEOS and the red wave design are trademarks of Sierra Wireless. Other registered trademarks that appear on this brochure are the property of the respective owners. © 2012 Sierra Wireless, Inc. www.sierrawireless.com