



Sierra Wireless® AirLink® GX400 Mobile Gateway

Rugged, reliable 3G mobile communications

The AirLink® GX400 is a rugged, secure mobile gateway designed to deliver mission-critical communications for in-vehicle applications. With 3G coverage on major global networks, the GX400 extends broadband connectivity to a wide range of devices and applications. It extends the enterprise network and management to the fleet, ensuring reliable, secure broadband data access for mobile users in the field.





- Quad band HSPA+ or EV-DO coverage
- Provides in-vehicle network connectivity via Ethernet, Serial, Wi-Fi and USB
- Supports automatic switching to Wi-Fi networks at station/depot
- Rugged vehicle design exceeds MIL-STD-810G specifications for shock and vibration
- Integrated events engine to track vehicle status and workforce safety
- Reliable GPS report store and forward to multiple redundant servers
- Up to 5 VPN tunnels to support secure communications over cellular networks
- Remote configuration, software update, and monitoring with AirLink Management Service (ALMS)
- Integrated by industry leading solution partners in the Solution Exchange
- Industry leading warranty, including free software maintenance and accelerated hardware replacement

AIRLINK GX400 MODELS

MODEL	HARDWARE INTERFACES
GX400 base	1 Ethernet, 1 RS-232 serial, 1 digital I/O, 1 USB, 2 cellular and 1 GPS antenna connectors
Wi-Fi option	Adds 802.11 b/g/n Wi-Fi hotspot with simultaneous client mode for cellular offloading
I/O option	Adds 4 digital I/O, 4 analog input, and a second RS-232 Serial port
Ethernet option	Adds 2 more Ethernet ports for a total of 3

VEHICLE AREA NETWORKING: CONSOLIDATE CONNECTIONS

The GX400 is available in four configurations to provide vehicle-area connectivity tailored for each application environment. The base model provides connectivity for wired Ethernet, Serial and USB devices in the vehicle; an Ethernet option provides additional Ethernet ports. With the Wi-Fi option, the GX400 also includes an 802.11 b/g/n mobile access point for wireless devices and a Wi-Fi client for depot/station communications. An I/O option provides 4 digital input/outputs and 4 analog inputs to monitor external system events and sensor inputs. Consolidating all devices according to your requirements at the vehicle reduces the number of modems, antennas and subscriptions otherwise needed.

RUGGED DESIGN FOR DEMANDING VEHICLE APPLICATIONS

The GX400 is designed from the ground up to withstand the harsh environmental conditions of vehicle use. The die cast aluminum housing is sealed to meet IP64 levels of resistance to dust and water ingress. The product is tested to meet and exceed the MIL-STD-810G specification for shock, vibration, temperature and humidity. Immunity to harsh electrical transients is covered to meet international vehicle use standards.

SECURE MOBILE COMMUNICATIONS

The GX400 is loaded with features to secure your critical data. With up to 5 concurrent VPN sessions, you can ensure secure communications to multiple backend systems. Remote authentication management allows you to use enterprise grade systems to manage access to devices in the field. Finally, port filtering and trusted IP protect the devices connected to your GX400 from unwanted access.





- Supports global 3G networks
- Proven reliability, over 1 million AirLink devices deployed
- Secure communications from vehicle to enterprise
- Advanced situational monitoring for the mobile workforce
- Powerful remote management solution

REPORT AND ALERT: DON'T JUST COMMUNICATE

As a fleet manager, you need more than just communications. You need to monitor the safety of your mobile workforce and the state of your vehicles. For example, you need to know if a worker has set off a man-down alert or if a police car has engaged the lights and siren. For this, you need the AirLink integrated events engine. This powerful tool allows you to develop custom event triggers and create tailored reports that communicate what's happening in the vehicle to third party server platforms – all without any programming. Best of all, through the Sierra Wireless Solution Exchange, you have access to a catalogue of world class solution partners that have already integrated this functionality into their AVL and mobile workforce solutions.

MANAGEABILITY: MANAGE, MONITOR AND ADMINISTER YOUR FLEET REMOTELY

Managing a fleet of mobile gateways is a demanding task. You need to maintain multiple device configurations, update device software, and remotely diagnose reported issues. AirLink Management Service (powered by AirVantage®) is the industry's leading device management solution. This highly advanced application supports over-the-air device registration, configuration and software updates. Dashboards display up-to-date views of the entire fleet, and custom reports can be set-up to monitor critical events and prevent downtime.

ABI Research has ranked ALMS as "Best in Class" among competing device management services.

DASHBOARD



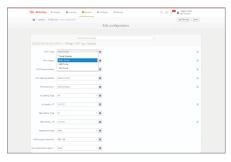
MONITOR CONNECTIVITY



SOFTWARE UPGRADES/UPDATES



SECURITY CONFIGURATION





Sierra Wireless AIRLINK GX400

	Specification		Specification
CELLULAR WAN	EV-DO Model (Sierra Wireless MC5728V)	SECURITY	Remote Authentication (LDAP, RADIUS and TACACS+)
	Carrier Approvals: Verizon, Sprint, US Cellular		DMZ
	Supported Frequency Bands The Double Control of the Contr		Inbound and Outbound Port filtering
	EV-DO/CDMA: 800(BC0), 1900(BC1), 1700(BC10)Industry Approvals: FCC		Inbound and Outbound Trusted IP
	HSPA+ Model (Sierra Wireless MC8705)		MAC Address Filtering
	 Carrier Approvals: AT&T, Rogers, Bell, Telus, Telstra 		<u> </u>
	Supported Frequency Bands MCDMA, 2100(P1), 1000(P2), 950(P5), 000(P9)	CATELLITE NIAVIGATION	PCI DSS V3.0 compatible
	WCDMA: 2100(B1), 1900(B2), 850(B5), 900(B8)GSM/GPRS/EDGE: Quad-band	SATELLITE NAVIGATION (GNSS)	Acquisition Time: 9s Hot Start
	Industry Approvals: FCC, IC, PTCRB, CE, RCM, R&TTE		Accuracy: <3m (50%), <5m(90%)
HOST INTERFACES	10/100 Base-T RJ45 Ethernet port (Ethernet option includes		Tracking Sensitivity: -145dBm
	3 ports)		GNSS Watchdog
	RS-232 Serial Port on DB-9 Connector (I/O option includes additional Serial Port)		Reports: NMEA 0183 V3.0, TAIP, RAP, XORA
	USB 2.0 Micro-B Connector		Multiple Redundant Servers Reliable Store and Forward
	3 SMA antenna connectors (Primary, Secondary/Diversity,	EVENTS ENGINE	Custom event triggers and reports
	GPS)	EVENTS LINGUINE	Configurable interface, no programming
	Active GPS antenna support		Event Types: Digital Input, Network Parameters, Data Usage,
INPUT/OUTPUT	Configurable I/O pin on power connector		Timer, Power, Device Temperature
	Digital Input ON Voltage: 3.3 to 30 VDC		Report Types: RAP, SMS, Email, SNMP Trap, TCP (Binary,
	Digital Input OFF Voltage: 0 to 1.2 VDC Digital Output = 200mA @ 20VDC		XML, CSV) Event Artises: Prive Polov Output
	 Digital Output > 200mA @ 30VDC I/O Model Only 	ALDI INIVAAANIA GENAENIT	Event Actions: Drive Relay Output
	5 configurable digital I/O	AIRLINK MANAGEMENT SERVICE	Secure cloud-based device management application Remote provisioning and airtime activation
	 4 configurable analog input (input voltage 0 to 30 VDC) 		Device configuration and template management
LAN (ETHERNET/USB)	DNS, DNS Proxy		Configurable monitoring and alerting
	DHCP Server		Fleet wide firmware upgrade delivery
	IP Passthrough		Auto configuration
	VLAN	MANAGEMENT	Web-Based User Interface
	Host Interface Watchdog	MANAGEMENT INTERFACES	Device Configuration Templates
	PPPoE		Over-the-air software and radio module firmware updates
SERIAL	TCP/UDP PAD Mode		AT Command Line Interface (Telnet/SSH/Serial)
	Modbus (ASCII, RTU, Variable)		SMS Commands
	PPP		SNMP
	Reverse Telnet	APPLICATION FRAMEWORK	ALEOS Application Framework (AAF)
	Garmin FMI	FRAMEWORK	LUA Scripting Language
WI-FI	On Wi-Fi Model Only IFFE 802 11 b/g/n		Eclipse-based IDE
	 IEEE 802.11 b/g/n Adjustable output power (Max:15dBm) 	POWER	Integrated with AirVantage® Analog Ignition Sense and Power Management
	Access point for up to 8 clients	POWLK	Input Voltage: 9 to 36 VDC
	 Simultaneous access point/client mode WEP, WPA-PSK, WPA2-PSK Security 		Low Power mode triggered on low voltage, timer delay
NETWORK AND BOLLETING			(ignition sense), or periodic timer
NETWORK AND ROUTING	-	ENVIRONMENTAL	Operating Temperature: -30°C to +70°C / -22°F to +158°F
	Port Forwarding Host Port Pouting		Storage Temperature: -40°C to +85°C / -40°F to +185°F
	Host Port Routing NEMO/DMNR		Humidity: 90% RH @ 60°C
	VRRP		Military Spec MIL-STD-810G conformance to shock,
	Reliable Static Route		vibration, thermal shock, and humidity
	Dynamic DNS		IP64 rated ingress protection
VPN	IPsec, GRE, and SSL VPN Client	INDUSTRY CERTIFICATIONS	Safety: IECEE Certification Bodies Scheme (CB Scheme) UL
	Up to 5 concurrent tunnels	-ELITHICATIONS	60950 Vehicle Usage: E-Mark (2009/19/EC), ISO7637-2
	Split Tunnel		
	Dead Peer Detection (DPD)		Hazardous Environments: Class 1 Div 2
	Multiple Subnets	CURRORT AND	Environmental: RoHS, REACH, WEEE
	VPN Failover	SUPPORT AND WARRANTY	5 year standard warranty
DIMENSIONS	142 x 98 x 41 mm (5.6 x 3.9 x 1.6 in)		Unrestricted software upgrades 1-day accelerated hardware replacement available through
	397g (14oz.)		participating resellers

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.

