Sierra Wireless GNX-6 LTE

KEY BENEFITS

- Support for LTE with fallback to HSPA+ for performance and network longevity.
- CAN/OBDII/J1708/J1939
- Dual mode Bluetooth 4.0 support for devices and applications such as HOS and driver performance
- Support for HOS & ELD applications
- High performance internal cellular & GPS antennas for ease and flexibility of installation of device; option for external antenna
- Support for driver behaviour using auto-calibrating 3-axis accelerometer
- Full Garmin FMI native support
- Optional internal backup battery
- Multiple I/O for activity monitoring and peripheral support
- Intelligent power management
- Automatic over-the-air configuration and upgrade
- Fail-safe technology
- Voltage protection

ACCESSORIES

- Power harness
- Serial data cable
- Garmin PND power/ communication cable
- J-Bus cables (Deutsch 6 or 9-pin)
- OBD II cable

All In One Fleet Tracking Unit with Low Energy Bluetooth and CAN/J1708/J1939 Technology

The GNX-6 LTE is a highly configurable, feature rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-6 LTE is an ideal solution for Mobile Resource Management, vehicle tracking and many other location-aware applications and services. The GNX-6 LTE incorporates leading edge, quality components for superior reliability including high performance internal cellular and GPS antennas (external antenna option available) and an auto-calibrating 3-axis accelerometer for monitoring and reporting of rapid acceleration, deceleration, harsh cornering and other events.

DUAL MODE BLUETOOTH 4.0, CAN/OBDII/J1708/J1939 SUPPORT

The GNX-6 LTE supports CAN/OBDII/J1708/J1939 interfaces to enable vehicle bus communications. Dual mode Bluetooth 4.0 allows for integration with tablets for use in such applications as HOS and driver performance. The support for multiple vehicle buses allows for ease of installation and compatibility with a broad set of vehicles.

INPUT/OUTPUT AND PERIPHERAL SUPPORT

The GNX-6 LTE I/O capabilities enable peripheral support, multiple configurations and monitoring including digital inputs and outputs, relays, serial and 1-wire peripheral communications. The GNX-6 LTE supports driver ID, GPS data and other peripheral applications.

EASY-OVER-THE AIR SERVICING /CONFIGURATION (PATENTED TECHNOLOGY)

The GNX configuration parameters and firmware are upgraded over-the-air, pushed to the GNX using IP or SMS or autonomously pulled by the GNX from any TFTP or FTP server. This allows for factory-to-installation without any configuration required and automatic upgrade of latest firmware.

	Specification
PHYSICAL	
Material	2-piece ABS enclosure
Dimensions (L x W x H)	142 x 75 x 19 mm (107x92x26 for External Antenna option)
Weight	129 g
Power/Aux Connector	20-pin 3mm Molex
Data Connector	10-pin 3mm Molex
ELECTRICAL	
Operating Voltage	8 to 30V DC
Power Consumption (typical, @ 12.8 vdc)	• Operating: <100mA (avg), 680mA (peak Tx) • Napping <20mA (typical, SMS/UDP wake-up) • Sleep <1mA (local wake-up)
ENVIRONMENTAL	
Operating Temperature	-20°C to +65°C / -4°F to +149°F (without battery)
Storage Temperature	-40°C to +85°C / -40°F to +185°F
Humidity	5 to 95% non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	SAE J1113
GPS TECHNOLOGY	
GPS Receiver	72 Channel, GPS/GLONASS
Tracking Sensitivity	-167dBm Tracking, Nav -156dBm Reacquisition -148dBm Cold start (un-aided)
Horizontal Accuracy	2.0m CEP
Time-to-first-fix	26s (@ -130dBm, Cold start)

		Specification
COMMUNICATION MODES/PROTOCOLS		
		LTE/HSPA and UDP/TCP/TFTP/SMS
		J1939, J1979, J1708
		ISO 15765-4 CAN
CELLULAR		
4G LTE	North America (AT&T/Generic)	B2(1900), B4(AWS), B5(850), B17(700)
	North America (AT&T/Generic) External Antenna	B2(1900), B4(AWS), B5(850), B12(700)
	North America (Verizon)	B4(AWS), B13(700)
	Australia	B3(1800), B5(850), B8(900), B28(700)
3G HSPA+	North America (AT&T/Generic)	B2(1900), B5(850)
	North America (AT&T/Generic) External Antenna	B2(1900), B5(850)
	North America (Verizon)	-
	Australia	B1(2100), B5(850), B8(900)
INPUTS/OUTPUTS		
Digital Inputs		6 (3 hi, 2 low, 1 Analog), including Ignition Sense line
Relay Drive Outputs		2 (150mA max. each)
Switched Output		1 (2.1A max.)
LED drive Output		1
RS-232 Port		1 (5-wire)
J1708 port		1
CAN port		1
Status LED's		2
APPROVALS		
Regulatory	North America (AT&T/Generic)	FCC, IC, PTCRB
	North America (AT&T/Generic) External Antenna	FCC, IC, PTCRB
	North America (Verizon)	FCC, IC
	Australia	RCM
Carrier	North America (AT&T/Generic)	AT&T
	North America (AT&T/Generic) External Antenna	AT&T
	North America (Verizon)	Verizon
	Australia	Planned: Telstra

KEY FEATURES

- Packet data and SMS-based messaging
- Low energy Bluetooth
- High sensitivity auto calibrating 3-axis accelerometer for motion, hard breaking/acceleration, and impact detection
- Low power sleep modes
- 1-Wire support for driver ID & temperature sensors (x4)

SIERRA WIRELESS®