



Sierra Wireless GNX-6

All In One Fleet Tracking Unit with Low Energy Bluetooth and CAN/J1708/1939 Technology

KEY BENEFITS

- CAN/1708/1939
- Dual mode Bluetooth 4.0
- Classic and low energy
- Support for HOS applications
- High performance internal cellular & GPS antennas for ease and flexibility of installation of device
- 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

The GNX-6 is a highly configurable, feature rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-6 is an ideal solution for Mobile Resource Management, vehicle tracking and many other location-aware applications and services. The GNX-6 incorporates leading edge, quality components for superior reliability including high performance internal cellular and GPS antennas 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/J1708/1939 SUPPORT

The GNX-6 supports CAN/J1708/1939 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 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 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.

KEY FEATURES

- Packet data and SMS-based messaging
- CANBUS/J1708/1939 support (accessory cables required)
- Low energy Bluetooth
- Ultra high performance internal cellular and GPS antennas
- High sensitivity auto calibrating 3-axis accelerometer for motion, hard braking/acceleration, and impact detection
- Low power sleep modes
- Full Garmin FMI native support
- 1-Wire support for driver ID & temperature sensors (x4)
- Over-the-air configuration and firmware management

ACCESSORIES

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

Specification	
PHYSICAL	
Material	2-piece ABS enclosure
Dimensions (L x W x H)	95 x 75 x 19 mm
Weight	4 ounces, 113 grams
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)	<ul style="list-style-type: none"> • Operating: <100mA (avg), 680mA (peak Tx) • Napping TBD (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
BLUETOOTH	
	Dual Mode 4.0
	Classic and Low Energy
GPS TECHNOLOGY	
GPS Receiver	72 Channel, GPS/GLONASS
Tracking Sensitivity :	<ul style="list-style-type: none"> -167dBm Tracking, Nav -156dBm Reacquisition -148dBm Cold start (un-aided)
Horizontal accuracy	2.0m CEP
Time-to-first-fix	26s (@ -130dBm, Cold start)
COMMUNICATION MODES/PROTOCOLS	
	GPRS/EDGE/HSPA and UDP/TCP/TFTP/SMS
	J1939, J1979, J1708
	ISO 15765-4 CAN
CELLULAR	
	HSPA 850/1900 (2band version w/fallback)
	HSPA 800/850/900/1900/2100 (5band version w/fallback)
	GSM/GPRS 850/900/1800/1900
	1xRTT
INPUTS/OUTPUTS	
Digital Inputs	6 (3 hi, 2 low, 1 Analog)
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
	CAN port
Status LED's	2

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.