



Sierra Wireless GNX-5P LTE

KEY BENEFITS

- Support for LTE with fallback to HSPA+ for performance and network longevity.
- CANBUS support with accessory cable.
- High performance internal cellular & GPS antennas for ease and flexibility of installation of device
- 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
- OBD II cable

Fleet Tracking Unit with Wireless Communication, Internal Antennas, Garmin FMI Support & Backup Battery

The GNX-5P LTE is a highly configurable, feature rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-5P LTE is an ideal solution for Mobile Resource Management, vehicle tracking and many other location-aware applications and services. The GNX-5P LTE 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.

OPTIONS AND VERSATILITY

The GNX-5P supports LTE with HSPA+ fallback (depending on model). The GNX-5P supports an optional internal backup battery to enable operation for up to 15 hours in the absence of primary power, and supports CANBUS to enable vehicle bus communication. Versatile configuration options enable support of everything from basic vehicle tracking to full featured service applications.

INPUT/OUTPUT AND PERIPHERAL SUPPORT

The GNX-5P 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-5P 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 |
| 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) | <ul style="list-style-type: none"> 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) |

KEY FEATURES

- Packet data and SMS-based messaging
- 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)

About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is an IoT pioneer, empowering businesses and industries to transform and thrive in the connected economy. Customers Start with Sierra because we offer a device-to-cloud solution, comprised of embedded and networking solutions seamlessly integrated with our IoT services. OEMs and enterprises worldwide rely on our expertise in delivering fully integrated solutions to reduce complexity, turn data into intelligence and get their connected products and services to market faster. Sierra Wireless has more than 1,400 employees globally and operates R&D centers in North America, Europe and Asia.

For more information, visit www.sierrawireless.com.

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Specification

| COMMUNICATION MODES/ PROTOCOLS | | |
|--------------------------------|--|--------------------------------------|
| LTE/HSPA and UDP/TCP/TFTP/SMS | | |
| ISO 15765-4 CAN | | |
| CELLULAR | | |
| 4G LTE | North America (AT&T/Generic) | B2(1900), B4(AWS), B5(850), B17(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 (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) | |
| CAN port | 1 | |
| Status LED's | 2 | |
| APPROVALS | | |
| Regulatory | North America (AT&T/Generic) | FCC, IC, PTCRB |
| | North America (Verizon) | FCC, IC |
| | Australia | RCM |
| Carrier | North America (AT&T/Generic) | AT&T |
| | North America (Verizon) | Verizon |
| | Australia | Planned: Telstra |

