



Sierra Wireless GNX-5P

KEY BENEFITS

- Multiple cellular options
- Internal cellular & GPS antennas
- Internal auto-calibrating 3-axis accelerometer
- Full Garmin FMI native support
- Optional internal backup battery
- CANBUS support
* (requires optional accessory cable)
- Multiple I/O for activity monitoring and peripheral support
- Highly configurable application parameters
- Automatic over-the-air configuration (patented)
- Automatic over-the-air firmware upgrade
- Flexible and easy-to-use diagnostic & troubleshooting tools

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

The GNX-5P is a highly configurable, feature-rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-5P is an ideal solution for Mobile Resource Management, vehicle tracking and many other location-aware applications and services. The GNX-5P utilizes state-of-the-art HSPA wireless technology for compatibility with the latest wireless network architecture. The GNX-5P incorporates leading edge, quality components for superior reliability including 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 multiple wireless communications options including HSPA, GPRS and CDMA. The GNX-5P supports an optional internal backup battery to enable operation for up to 15 hours in the absence of primary power. The GNX-5P supports CANBUS to enable vehicle bus communication. The versatile GNX-5P configurations enable support of everything from basic vehicle tracking to full-featured service applications.

INPUT/OUTPUT AND PERIPHERAL SUPPORT

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.

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

The GNX-5P configuration parameters and firmware are upgraded over-the-air, pushed to the GNX-5P using IP or text messaging or autonomously pulled by the GNX-5P from any TFTP or FTP server. This allows feature updates to be deployed to a fleet of GNX-5P units with minimal user intervention and without proprietary server software. This reduces field service visits and can prolong the serviceable life of the GNX-5P.

KEY FEATURES

- CANBUS support (accessory cable required)
- Internal cellular and GPS antennas
- Internal auto-calibrating 3-axis accelerometer
- Full Garmin FMI native support
- Multiple inputs and outputs
- 1-Wire support for driver ID & temperature sensors (x4)
- Over-the-air configuration and firmware management
- Large store-and-forward data cache
- Multiple polygon geo-fences
- Multiple landmarks
- Direct email report and alert delivery
- Voltage monitoring and low battery notification
- NMEA GPS output
- Backup battery support
- External antenna version available

ACCESSORIES

- Power harness
- Serial data cable
- Garmin PND power/communication cable
- CANBUS cable (required for CAN support)
- J-Box (J1708 and J1939 ECM interfaces)
- J-Bus cables (Deutsch 6 & 9-pin for use with J-Box)

OPTIONAL FEATURES

- Internal backup battery

Specification

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PHYSICAL	
Material	2-piece ABS enclosure
Dimensions (L x W x H)	4.1 x 3.7 x 1.1 inches 104 x 94 x 28 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: 95mA (avg), 680mA (peak Tx) • Standby 2 35mA (SMS/UDP wake-up) • Standby 1 13mA (local wake-up) • Sleep <2mA (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	56 Channel L1 C/A Code, WAAS/SBAS
Tracking Sensitivity :	<ul style="list-style-type: none"> -161dBm Tracking, Nav, Reacquisition -160dBm Reacquisition -148dBm Cold start (un-aided)
Horizontal accuracy	2.5m, 2.0m SBAS (CEP 50%)
Time-to-first-fix	29s (@ -130dBm, Cold start)
CELLULAR OPTIONS	
	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	5 (3 hi, 2 low)
Relay Drive Outputs	4 (150mA max. each)
Switched output	1 (1.2A max.)
LED drive Output	1
RS-232 port	1 (5-wire)
Status LED's	2
1-Wire	Dallas iButton, Temp Sensors
REGULATORY APPROVALS	
	FCC, IC, PTCRB

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.