

GNX-5P GPRS

Economical Wireless Fleet Tracking Unit with Internal Antenna and Backup Battery Options, Accelerometer and Garmin FMI support



KEY BENEFITS

- Competitively Priced
- Quad Band GPRS
- Internal antenna option
- Internal auto calibrating 3-axis accelerometer
- Optional internal backup battery
- Full Garmin FMI support
- Multiple I/O capability for a variety of applications
- Highly configurable application parameters
- Automatic over-the-air configuration (patented)
- Automatic over-the-air firmware upgrade
- Flexible & easy to use diagnostic and troubleshooting tools

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 incorporates leading edge, quality components for superior reliability including a SuperSense GPS module and auto calibrating 3-axis accelerometer. The GNX-5P provides full Garmin FMI support, including store/forward capability.

Options and Versatility

The GNX-5P product line supports multiple wireless communication options including GPRS, HSPA and CDMA. The GNX-5P can be ordered with internal antennas and optional internal backup battery to enable operation for up to 15 hours in the absence of external power. The versatile GNX-5P configuration capabilities support basic vehicle tracking to full featured service applications.

Input/Output and Peripheral Support

The GNX-5P I/O capabilities enable multiple configurations, peripheral support and monitoring including digital inputs and outputs, relays, serial and 1-wire peripheral communication, vehicle conditions and activity. The GNX-5P supports Driver ID, GPS data (NMEA) and other peripheral applications.

Easy Over The Air Servicing (Patented Technology)

The GNX-5P configuration parameters and firmware are upgradeable over-the-air and can be 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's with minimal user intervention and without proprietary server software. This reduces field service visits and can prolong the serviceable life of the GNX-5P.

Made in the USA

All GenX Mobile products are designed and manufactured in the USA



GNX-5P GPRS SPECIFICATIONS

KEY FEATURES

- Quad-band GPRS
- Optional internal cellular and GPS antennas
- Optional internal backup battery
- Internal auto calibrating 3-axis accelerometer
- Full Garmin FMI Native Support
- 1-Wire Support for Driver ID & Temperature Sensors (x4)
- Multiple inputs and outputs
- Over-the-air configuration and firmware management
- Thousands of store/forward messages
- Direct email report and alert delivery
- Voltage monitoring and low battery notification
- NMEA GPS output

ACCESSORIES

- GPS/GSM Covert Antenna
- Power Harness
- Serial Data Cable
- Garmin PND power/communication cable
- Port Expander
- J-Box



PHYSICAL SPECIFICATIONS

Material	2-piece ABS enclosure
Dimensions (LxWxH)	4.1 x 3.7 x 1.1 inches 104 x 93 x 28 mm
Weight	4 ounces, 114 grams
Power/Aux connector	20-pin 3mm Molex
Data connector	10-pin 3mm Molex

ELECTRICAL SPECIFICATIONS

Operating Voltage	8 to 30V DC
Power Consumption	(typical, @ 12.8 vdc)
Operating	95mA (avg), 680mA (peak Tx)
Standby 2 (SMS/UDP wake-up)	24mA
Standby 1 (local wake-up)	13mA
Sleep (Ignition only wake-up)	<1mA

ENVIRONMENTAL SPECIFICATIONS

Operating	-22° to 185°F (-30°C to 85°C)
Storage	-40° to 185°F (-40°C to 85°C)
Humidity	5 to 95% non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	SAE J1113

GPS TECHNOLOGY (Internal Antenna Version)

GPS Receiver	L1 C/A-Code, SPS
Sensitivity	-165 dBm Navigation -148 dBm Acquisition (Cold start) -158 dBm Re-acquisition

GPS TECHNOLOGY (External Antenna Version)

GPS Receiver	50 Channel L1 C/A Code, WAAS/SBAS
Sensitivity	-161dBm Tracking, Nav, Reacquisition -147dBm Cold start (un-aided)
Horizontal accuracy	2.5m, 2.0m SBAS (CEP 50%)
Time-to-first-fix	27s (@ -147dBm, Cold start)

COMMUNICATION

Quad-Band	GSM 850 / 900 / 1800 / 1900 MHz class 4 (2 W) for 850/900 bands class 1 (1 W) for 1800/1900 bands
GPRS	Class 10 (4 downlink, 2 uplink, max. 5) Mobile Station Class B
Sensitivity (25 °C)	-110 dBm (typ.) @850/900 -109 dBm (typ.) @1800/1900

INPUTS/OUTPUTS

Digital Inputs	5 (3 hi, 2 low)
Relay Drive Outputs	4 (150mA max. each)
Switched 12V output	1 (1.2A max.)
LED drive Output	1
RS-232 port	1 (5-wire)
1-Wire Port	Dallas iButton, Temp Sensors
Status LED's	2

REGULATORY APPROVALS

FCC, PTCRB, IC, RoHS Compliant



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