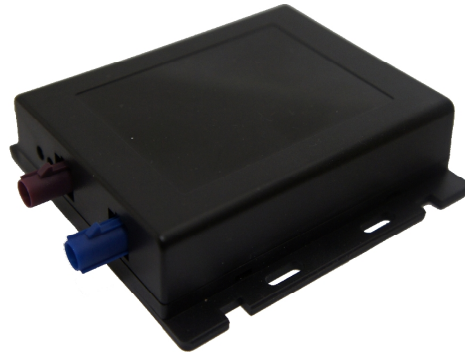# GNX-5P 3G HSPA

Low Cost Fleet Tracking Unit with Leading Edge 3G HSPA Wireless Communication, Full Garmin FMI Support & Backup Battery Option

KEY BENEFITS

- Competitively Priced

- 3G HSPA Communication

- Full Garmin FMI Native Support

- Internal auto calibrating 3-axis accelerometer

- Optional internal backup battery

- 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

- All GenX Mobile products are designed and manufactured in the USA

The GNX-5P 3G HSPA is a highly configurable, feature rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-5P 3G HSPA is an ideal solution for Mobile Resource Management, vehicle tracking and many other location aware applications and services. The GNX-5P 3G HSPA utilizes state of the art HSPA wireless technology for compatibility with the latest wireless network architecture. The GNX-5P 3G HSPA incorporates leading edge, quality components for superior reliability including 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 product line supports multiple wireless communication options including GPRS, HSPA and CDMA. The GNX-5P can be configured with an 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 3G HSPA I/O capabilities enable peripheral support, multiple configurations and monitoring including digital inputs and outputs, relays, serial and 1-wire peripheral communication. The GNX-5P supports Driver ID, GPS data and other peripheral applications. The optional Port Expander provides additional I/O and peripheral support for more demanding applications.

Easy Over The Air Servicing (Patented Technology)
The GNX-5P 3G HSPA configuration parameters and firmware are upgrade-able 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 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

- 3G HSPA Communication Technology
- Full Garmin FMI Native Support
- Internal auto calibrating 3-Axis Accelerometer
- Multiple inputs and outputs
- Over-the-air configuration and firmware management
- Optional internal backup battery
- Multiple polygon geo-fences
- Multiple landmarks
- Direct email report and alert delivery
- Voltage monitoring and low battery notification
- 1-Wire Support for Driver ID & Temperature Sensors (x4)
- NMEA GPS output

ACCESSORIES

- Covert Combo 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 26 mm
Weight	4 ounces, 114 grams
GPS antenna conn.	FAKRA (Blue Code C)
Cellular antenna conn.	FAKRA (Violet Code D)
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)	35mA
Standby 1 (local wake-up)	13mA
Sleep (Ignition only wake-up)	<2mA

ENVIRONMENTAL SPECIFICATIONS

Operating	14° to 149°F (-10°C to 65°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 (SuperSense Technology)

GPS Receiver	50 Channel L1 C/A Code, WAAS/SBAS
Sensitivity	-161dBm Tracking, Nav, Reacquisition
	-143dBm Cold start (un-aided)
Horizontal accuracy	2.5m, 2.0m SBAS (CEP 50%)
Time-to-first-fix	27s (@ -130dBm, Cold start)

COMMUNICATION

Air Interfaces	HSPA, HSDPA, EDGE, GPRS and GSM
Frequency	UMTS/HSDPA/HSUPA 850/1900 MHz
Bands	EDGE/GPRS/GSM 850/900/1800/1900 MHz

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)
Status LED's	2
1-Wire Port	Dallas iButton, Temp Sensors

REGULATORY APPROVALS

FCC, IC, PTCRB

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Specifications Are Subject To Change Without Notice

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