GNX-5P CDMA

Economical Wireless Fleet Tracking Unit with Full Garmin FMI Support and Internal Auto-Calibrating 3-Axis Accelerometer

KEY BENEFITS

- Competitively Priced

- Dual Band CDMA 1xRTT (IS-2000)

- High Sensitivity GPS

- Internal auto calibrating 3-axis accelerometer

- Multiple I/O capability for a variety of 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 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, CDMA and HSPA. The versatile GNX-5P configuration capabilities enable support of everything from 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 CDMA SPECIFICATIONS

KEY FEATURES

- Dual-band CDMA 1xRTT
- Full Garmin FMI Native Support
- Internal auto calibrating 3-axis accelerometer
- Multiple inputs and outputs
- Over-the-air configuration and firmware management
- Thousands of store/forward messages
- Multiple polygon geo-fences (up to 50 verticies each)
- 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
- Backup battery support (external lead-acid)

ACCESSORIES

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

PHYSICAL SPECIFICATIONS

Material	Extruded Aluminum w/ flanges
Dimensions (LxWxH)	4.1 x 3.4 x 1.1 inches
	104 x 86 x 28 mm
Weight	6.5 ounces, 182 grams
GPS antenna conn.	SMA
Cellular antenna conn.	SMC
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	-4° to 131°F (-20°C to 55°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

Quad-Band	CDMA2000 1xRTT (IS-2000)
	Band class 0 (Tx:824~849 MHz/Rx:869~894 MHz)
	Band class 1 (Tx:1850~1910 MHz/Rx:1930~1990 MHz)
Data Rates	153 kbps forward and reverse
Output Power	0.25W CDMA

INPUTS/OUTPUTS

Digital Inputs	5 (3 hi, 2 low)
Analog Input	1
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, IC

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Specifications are subject to change without notice