

GNX-20 3G HSPA

Low Cost Highly Configurable Feature Rich Mobile Resource Management Device



KEY BENEFITS

- Competitively Priced
- 3G HSPA Wireless Communication
- Internal auto calibrating 3-axis accelerometer
- Full Garmin FMI support including store/forward capability
- Wi-Fi Capable
- High Sensitivity GPS
- Multiple I/O capability for a variety of applications
- Highly configurable application parameters
- Automatic over-the-air configuration (patented technology)
- Automatic over-the-air firmware upgrade
- Flexible and easy to use diagnostic and troubleshooting tools

The GNX-20 3G HSPA is a highly configurable, feature rich, mobile resource management device designed to service a wide variety of market and industry requirements. The GNX-20 3G HSPA supports the 3G HSPA wireless carrier network infrastructure which enables high speed wireless communication and throughput between wireless products and wireless carriers. The GNX-20 3G HSPA includes features like an integrated Ethernet port for mobile computer connectivity and wireless communication. An internal auto calibrating 3-axis accelerometer to support service provider applications like driver safety and driver performance and support for multiple peripherals.

Inputs and Outputs

The GNX-20 3G HSPA I/O capabilities enable peripheral support, multiple configurations and monitoring including digital inputs and outputs, relays, RS-232 serial, 10Base-T Ethernet, 1-wire peripheral communication, vehicle conditions and activity. The GNX-20 supports a Wi-Fi Bridge, Driver ID, multiple temperature sensors, Mag Strip Reader, backup battery, GPS data (NMEA) and other peripheral applications.

Options and Versatility

The GNX-20 3G HSPA configuration capabilities enable support of everything from basic vehicle tracking to full featured service applications with support for multiple peripherals.

Easy Over The Air Servicing (Patented Technology)

The GNX-20 configuration parameters and firmware are upgradeable over-the-air, and can be pushed to the GNX-20 using IP or text messaging, or autonomously pulled by the GNX-20 from any TFTP or FTP server. This allows feature updates to be deployed to a fleet of GNX-20's with minimal user intervention, and without proprietary server software. This reduces field service visits and can prolong the serviceable life of the GNX-20.

Made in the USA

All GenX products are designed and manufactured in the USA



GNX-20 3G HSPA Specifications

KEY FEATURES

- HSPA 3G wireless communication
- Full Garmin FMI support
- Multiple inputs and outputs
- Internal auto calibrating 3-Axis Accelerometer
- Over-the-air configuration & firmware management
- 1-Wire Support for Driver ID & Temperature Sensors (x4)
- NMEA GPS output

OPTIONAL FEATURES / OPTIONS

- Backup battery (external)
- Mobile Data Terminal support
- Wi-Fi Bridge/AP support (external)
- GPS and Cellular Antennas
- Serial Cable
- I/O cable
- Garmin PND power/communication cable



PHYSICAL SPECIFICATIONS

Dimensions	5.5 x 5 x 1 inches 140 x 127 x 25 mm
Weight	12 ounces 340 grams
GPS antenna conn.	SMA
Cellular antenna conn.	SMC
Power connector	4-pin 3mm Molex
Data connector	22-pin 3mm Molex
Auxiliary conn.	18-pin 3mm Molex
Serial II conn.	12-pin 3mm Molex
Ethernet conn.	RJ-45

ELECTRICAL SPECIFICATIONS

Operating Voltage	8 to 30V DC
Power Consumption (avg.)	
Operating	<150mA @ 12V DC
Standby	17mA @ 12V DC
Sleep	<2mA @ 12V DC

ENVIRONMENTAL SPECIFICATIONS

Operating	-4° to 149°F (-20°C to 65°C)
Functional	-4° to 149°F (-20°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 -147dBm Cold start (un-aided)
Horizontal accuracy	2.5m, 2.0m SBAS (CEP 50%)
Time-to-first-fix	27s (@ -147dBm, 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
Data Rates	3Mbps downlink/600Kbps uplink

COMMUNICATION PROTOCOLS

SMS (MO/MT), UDP/IP Sockets, TFTP, TCP/IP Sockets, FTP, SMTP (email), Telnet and DHCP (client or server)

INPUTS/OUTPUTS

Digital Inputs	13 (7 hi, 6 low)
Analog Input	1
Relay Drive Outputs	4
Serial Ports	3
Ethernet Port	1 (10/100 MDI-X)
Switched 12V output	2 (1.2A max. each)
LED drive Output	1
1-Wire Port	Dallas iButton & Temp Sensors
Status LED's	2

REGULATORY APPROVALS

FCC, PTCRB, IC

Specifications are subject to change without notice



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