



## Sierra Wireless GNX-3

### KEY BENEFITS

- High performance internal cellular & GPS antennas for ease and flexibility of installation
- Auto-calibrating 3-axis accelerometer
- RTC wake up modes
- 2 wire install (no ignition)
- Optional internal backup battery
- Multiple I/O for activity monitoring and peripheral support
- Intelligent power management
- Automatic over-the-air configuration and upgrade
- Fail-safe technology
- Voltage protection

## Full Featured Vehicle Tracking Unit For Basic Tracking Applications

The GNX-3 is a highly configurable, feature-rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The GNX-3 is an ideal solution for Mobile Resource Management, vehicle tracking and many other location-aware applications and services. The GNX-3 incorporates leading edge, quality components for superior reliability including high performance 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.

### BACKUP BATTERY, INPUT/OUTPUT AND PERIPHERAL SUPPORT

The GNX-3 I/O capabilities enable peripheral support, multiple configurations and monitoring including digital inputs and outputs, and relays. Optional backup battery allows for operation with the absence of power and also for last gas applications.

### EASY OVER-THE-AIR SERVICING /CONFIGURATION (PATENTED TECHNOLOGY)

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.

## KEY FEATURES

- Packet data and SMS-based messaging
- RTC wakeup modes provides for multiple applications
- Optional 2-wire install (ignition not required)
- Ultra high performance internal cellular and GPS antennas
- High-sensitivity auto-calibrating 3-axis accelerometer for motion, hard breaking/acceleration, and impact detection
- Low power sleep modes
- Optional internal backup battery (200mAh)
- Over-the-air configuration and firmware management
- High capacity store forward for data integrity
- Voltage monitoring

## ACCESSORIES

- Power harness - GMI-CAB-310010
- OBD power only harness

## Specification

PHYSICAL	
Material	2-piece ABS enclosure
Dimensions (L x W x H)	103 x 54 x 19 mm
Weight	70 grams
Power/Data Connector	18-pin 3mm Molex
ELECTRICAL	
Operating Voltage	8 to 30V DC
Power Consumption (typical, @ 12.8 vdc)	<ul style="list-style-type: none"> <li>• Operating: 40mA (avg), 680mA (peak Tx)</li> <li>• Napping &lt;15mA (SMS/UDP wake-up)</li> <li>• Sleep &lt;1mA (local wake-up)</li> </ul>
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	72 Channel, GPS/GLONASS
Tracking Sensitivity :	<ul style="list-style-type: none"> <li>-164dBm Tracking, Nav</li> <li>-159dBm Reacquisition</li> <li>-147dBm Cold start (un-aided)</li> </ul>
Horizontal accuracy	2.5m CEP
Time-to-first-fix	27s (@ -130dBm, Cold start)
COMMUNICATIONS OPTIONS	
	GPRS/HSPA and UDP/TCP/TFTP/SMS
	1xRTT
CELLULAR	
Available Technologies	HSPA 850/1900 (2band version w/fallback) GSM/GPRS 850/900/1800/1900 HSPA 800/850/900/1900/2100 (5band version) - Planned Q3 16
INPUT/OUTPUT	
Digital Inputs	3 (2 hi, 1 low)
Relay Drive Outputs	2 (150mA max. each)
Status LED's	2

## 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](http://www.sierrawireless.com).