

# YOUR ENTERPRISE VEHICLE TRACKING SOLUTION



## GO4 Version 3 (GO4V3)

The GO4V3 builds on the features that are available in the GO5 with a special focus on the needs of fleets, whether large or small. The GO4 adds the ability to track drivers for productivity and safety score carding, regardless of the asset they are driving. Additionally, GO4 has 8 auxiliary inputs that can be used to help separate necessary PTO idling from unnecessary idle time. The GO4 also has an expansion port that allows third party devices to be connected to the Geotab device, such as a Garmin navigational device, mobile data terminals, and more.

## Top GO4V3 Features

- Supports multiple communication protocols - GSM, HSPA, WiFi, and proprietary RF 900 MHz
- All communication types can be combined into one database with GO5 units
- Add-on satellite failover for emergencies
- Driver ID key supported
- Precise tracking and accident recreation
- Checkmate™ 5.5 and My.Geotab™ 5.5 Compatible



## GO4 Version 3 - Your Enterprise Vehicle Tracking Solution

Compliance	RoHS compliant, lead free
Size	4.09" W x 1.46"H x 7.17" L (104mm X 37mm X 182mm)
Weight	195 g (6.88 oz)
Housing	Flame retardant black ABS, IP 54 water resistant with rubber gasket and boot
Inputs	Ignition plus 8 digital (true/false sensor input) plus 1 serial port
Environmental Tests	Passed SAE J1455 tests: heat, shock, vibration, humidity Temperature tested between - 40F to + 185F / -40C to +85C
32 Mb Non volatile Flash Memory Store	Main Data Memory: Records 4,650 miles (7,500 km) of city driving, or 39,936 logs. Accident Data Memory: Buffer records 102 minutes of second-by-second valid data, or 6,122 logs.
Engine Management	Support for Diagnostics on CAN (ISO 15765), Diagnostics on CAN for Diesel Engines (SAE J1939), Legacy Diesel (SAE J1708), Legacy OBD (SAE J1850 PWM/VPW, ISO 9141-2, ISO 14230 KWP2000). Adapter packs available for GM and heavy duty vehicles.
Operating Voltage	9V to 28V
Integration Port	Serial, multi baud with external relay control output. Supply up to 500mA to source.
Protection	PWM regulated circuitry with over-voltage clamp
Recording Parameters	Curve Based Logging Algorithm gives fewer and more accurate data points.
Power Consumption	Sleep Mode Current: 7mA. Operating Current (engine on): 40-150mA. Excluding Third Party Device.
Firmware	Wireless, over-the-air update, or by key Firmware can be customized for application-specific recording
Buzzer	Test Mode: Alert for system diagnostic testing of GPS and wireless connection. Parameter: User can set parameters to alert driver of excess speed, auxiliaries (seatbelt, PTO), above a specified speed, excessive idling or over-revving. Engine based seatbelt violation (when available). Accelerometer triggered alerts: harsh braking, harsh acceleration and harsh corners.
Key Housing	Accepts Geotab key. Geotab keys can be provided for driver identification, memory extraction, accident data extraction, system diagnostics, and unit setup
Clock	Internal clock is set by initial GPS latch and counts seconds for time based activity during sleep mode including Heartbeat and Voltage Recording
Voltage Recording	Records battery voltage hourly when ignition is off to report on battery health. Curve based voltage logging to detect weak batteries, failing alternators, failing starters.

Heartbeat	RF wakes up every hour, Wi-Fi passive and GSM passive do so every four hours and immediately on ignition off at home base. Wi-Fi Live and Live wake up an hour after ignition off, then 2 hours after that, then 4 and finally every 6 hour.
Antennas	Wireless: Inside windshield mount GSM/CDMA, Wi-Fi and RF antenna GPS Antenna: Interior windshield mount (standard), external roof or magnet optional
Accelerometer	A LIS302DL from ST 3 axis accelerometer is provided for the low-voltage digital output linear MEMS housed in an LGA package. The LIS302DL has a user-selectable full scale of $\pm 2g$ and $\pm 8g$ and is capable of measuring accelerations with an output data rate of 100 Hz or 400 Hz
Installation	Simple installation offered through EZ harness (ALDL plug-in), a Universal Heavy Duty Kit for Diesel Vehicles. GM kit for GM vehicles. 'T' Type harnesses or for older model vehicles: 3 wire connectivity. Self-calibrating accelerometer.
Starter Immobilization	DriverID enforcement and relay controlled via Checkmate.
Intelligent Ignition detect	Non-engine based ignition detect based on voltage and movement.
GPS Receiver - Ublox LEA-5A:	<ul style="list-style-type: none"> <li>• 50-channel u-blox 5-positioning engine with over 1 million effective correlators</li> <li>• Supports preloading ephemeris for assisted-GPS</li> <li>• SuperSense® IndoorGPS : -160 dBm Acquisition and tracking sensitivity</li> <li>• Antenna short and open-circuit detection and protection</li> </ul>
GO4 RF - AC4490 - 200	<ul style="list-style-type: none"> <li>• Frequency: (software selectable) 902-928 MHz (U.S/CA) 915-928 MHz (AU)</li> <li>• Modulation: FHSS FSK FHSS FSK</li> <li>• Output Power: (w/ 3dBi antenna) 5mW-200mW variable 5mW-1000mW variable</li> <li>• Power consumption: 650 mA typical</li> <li>• Channels: Up to 48 (US/Canada) up to 8 Australia</li> <li>• Security: One-byte system ID, DES</li> <li>• Certification: FCC, IC</li> <li>• Download Range: 600 ft when connecting directly to ethernet downloader or USB downloader, 1000 ft when connecting to external antenna</li> </ul>
GO4 WiFi : Module	<ul style="list-style-type: none"> <li>• Wireless Standards: IEEE 802.11b; 802.11g</li> <li>• Frequency: 2.412 – 2.484 GHz</li> <li>• Output Power: <ul style="list-style-type: none"> <li>- 14g mode: 14dBm +2.0 dBm/-1.0 dBm (does not include antenna gain)</li> <li>- 11b mode: 17dBm</li> </ul> </li> <li>• Maximum Receive Sensitivity: -69dBm in 11g mode</li> <li>• Power Consumption: Average Power Consumption: Data Transfer <ul style="list-style-type: none"> <li>- 740 mW (Low CPU); active</li> <li>- 250 mW (Low CPU); inactive</li> </ul> </li> <li>• Peak Supply Current: 360 mA Data Transfer</li> <li>• Security: IEEE 802.11i - PSK with AES-CCMP Encryption :WEP-64, WEP-128, WPA-personal, TKIP, WPA-personal, AES, WPA-personal, TKIP and AES, WPA2-personal, TKIP, WPA2-personal, AES, WPA2-personal, TKIP and AES, WPA/WPA2 personal, TKIP, WPA/WPA2 personal, AES, WPA/WPA2 personal, TKIP and AES</li> <li>• Certification: FCC Class B, EN EMC, and safety-compliance</li> <li>• Modulation Techniques: OFDM, DSSS, CCK, DQPSK, DBPSK</li> </ul>

GO4 LIVE GSM: Socket Modem ® GPRS	<ul style="list-style-type: none"> <li>• Frequency: Quad-band GSM 850/900/1800/1900 MHz</li> <li>• Embedded TCP/IP stack</li> <li>• Antenna: MMCX connector</li> <li>• Power Consumption: 5VDC <ul style="list-style-type: none"> <li>- 400mA typical</li> <li>- 1.4A maximum</li> </ul> </li> <li>• Certification: CE Mark, R&amp;TTE <ul style="list-style-type: none"> <li>- EMC: FCC Part 22, 24, EN 301 489-1, EN 301 489-7, RSS 132, 133</li> <li>- Safety: UL 60950-1, EN 60950-1, AS/NZS 60950:2000</li> <li>- Network: PTCRB</li> </ul> </li> </ul>
GO4 LIVE CDMA: Socket Modem ® CDMA	<ul style="list-style-type: none"> <li>• Frequency: Dual-band 800/1900 MHz CDMA</li> <li>• Antenna: MMCX connector</li> <li>• Power Consumption: 5VDC <ul style="list-style-type: none"> <li>- 400mA typical</li> <li>- 700mA maximum</li> </ul> </li> <li>• Certification: <ul style="list-style-type: none"> <li>- EMC: FCC Part 2, 15, 22, 24, EN 55022, EN 55024</li> <li>- Safety: cUL, EN 60950, UL 60950</li> <li>- Network: CDG 1 &amp; 2</li> </ul> </li> </ul>
GO4 LIVE GSM: Leon G100	<ul style="list-style-type: none"> <li>• Frequency: Quad-band GSM 850/900/1800/1900 MHz</li> <li>• Embedded TCP/IP stack</li> <li>• Power Consumption: 3.35 V to 4.2 V <ul style="list-style-type: none"> <li>- 1.6mA idle, 300mA typical</li> </ul> </li> <li>• Certification: R&amp;TTE, CE, GCF, FCC, PTCRB, Anatel, IC</li> </ul>