



GO4 Version 2 Module:

| | |
|---|---|
| Compliance: | RoHS compliant (lead free) |
| Size: | 4.09" W X 1.46"H X 7.17" L 104mm X 37mm X 82mm |
| Weight: | 6.88 oz / 195 g |
| 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 40,742 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) |
| Operating Voltage: | 9V to 28V |
| Integration Port: | Serial, default 9600 baud |
| Protection: | PWM regulated circuitry with over-voltage clamp |
| Recording Parameters: | Patented recording method takes user-defined thresholds for speed, turning, acceleration, braking to provide high or low resolution trip records |
| Power consumption: | 124 ma @ 12Vdc depending on communication method(Live, Wi-Fi or RF) |
| Firmware: | Wireless update (over-the-air) 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 |
| Key Housing: | Accepts Geotab key. Geotab keys can be provided for driver identification, memory extraction, accident data extraction, system diagnostics, 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 |
| Heartbeat: | Device wakes out of Sleep Mode every hour(Wi-Fi & RF) or every 6 hours(Live) to send any buffered memory information; position, sensor and voltage data |
| 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), 'T' Type harnesses or for older model vehicles: 3 wire connectivity. |



GPS Receiver: Ublox LEA-5A:

GPS Receiver:



- 50-channel u-blox 5-positioning engine with over 1 million effective correlators
- Supports preloading ephemeris for assisted-GPS
- *SuperSense @ IndoorGPS* :- 160 dBm Acquisition and tracking Sensitivity
- Antenna short and open-circuit detection and protection

ADDRESS

1081 South Service
Road, West,
Oakville, Ontario
L6L 6K3 CANADA

CONTACT

North America:
1-877-GEOTAB-1 /
(1-877-436-8221)

International:

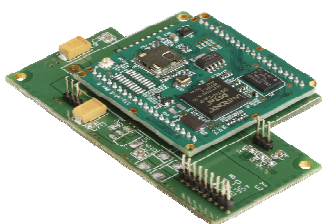
1-416-434-4309
Fax: 1-416-352-7432

WEB

www.geotab.com

GO 4 RF: AC4490-200

- **Frequency:** (software selectable) 902-928 MHz (U.S/CA) 915-928 MHz (AU)
- **Modulation:** FHSS FSK FHSS FSK
- **Output Power:** (w/ 3dBi antenna) 5mW-200mW variable 5mW-1000mW variable
- **Power consumption:** 650 mA typical
- **Channels:** Up to 48 (US/Canada) up to 8 Australia
- **Security:** One-byte system ID, DES
- **Certification:** FCC, IC
- **Download Range:** 600 ft when connecting directly to ethernet downloader or USB downloader, 1000 ft when connecting to external antenna.

GO 4 Wi-Fi: Module

- **Wireless Standards:** IEEE 802.11b; 802.11g
- **Frequency:** 2.412 – 2.484 GHz
- **Output Power:** 14dBm +2.0 dBm/-1.0 dBm (does not include antenna gain)
- **Maximum Receive Sensitivity:** -91dBm @ 1Mbps
- **Power Consumption:** Average Power Consumption: Data Transfer
 - 740 mW (Low cpu); active
 - 250 mW (Low cpu); inactive
 Peak Supply Current: 360 mA Data Transfer
- **Security:** IEEE 802.11i - PSK with AES-CCMP Encryption / WPA - PSK / TKIP Encryption / 64/128-bit WEP
- **Certification:** FCC Class B, UL and EN EMC and safety-compliant
- **Download Range:** Up to 328 feet indoors
- **Modulation Techniques:** OFDM, DSSS, CCK, DQPSK, DBPSK

GO 4 LIVE GSM: SocketModem® GPRS

- **Frequency:** Quad-band GSM 850/900/1800/1900 MHz
- Embedded TCP/IP stack
- **Antenna:** MMCX connector
- **Power Consumption:** 5VDC
 - 400mA typical
 - 1.4A maximum
- **Certification:** CE Mark, R&TTE
 - **EMC:** FCC Part 22, 24, EN 301 489-1, EN 301 489-7, RSS 132, 133
 - **Safety:** UL 60950-1, EN 60950-1, AS/NZS 60950:2000
 - **Network:** PTCRB

GO 4 LIVE CDMA: SocketModem® CDMA

- **Frequency:** Dual-band 800/1900 MHz CDMA
- **Antenna:** MMCX connector
- **Power Consumption:** 5VDC
 - 400mA typical
 - 700mA maximum
- **Certification:**
 - **EMC:** FCC Part 2, 15, 22, 24, EN 55022, EN 55024
 - **Safety:** cUL, EN 60950, UL 60950
 - **Network:** CDG 1 & 2

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