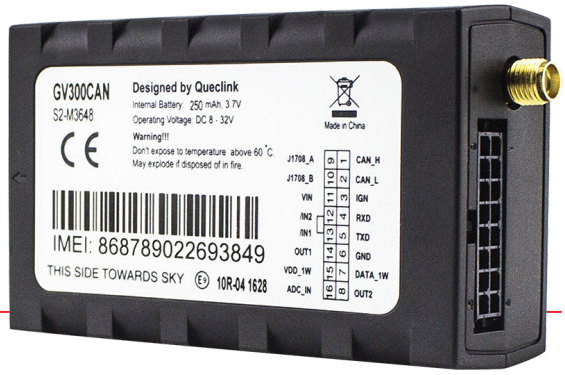
GV300CAN

Advanced Vehicle Tracking Device



- **Support Virtual Odometer**
- **I/O Interfaces Including CAN and J1708**
- **Wide Operating Voltage Range 8V to 32V DC**
- **1-Wire Supporting Temperature Sensors and iButton Driver ID**
- **Multiple I/O Interfaces Including Smart Input, Ignition Detection and Fuel Level Sensing**

The GV300CAN is a compact GPS tracker designed for a wide variety of vehicle tracking applications. It has multiple digital/ analog I/O interfaces that can be used for monitoring or controlling external devices. At the same time, it has integrated CAN and J1708 which decodes information from vehicles digital buses (CAN bus and J1708).It also includes a 1-wire interface used for driver ID and temperature monitoring. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz allowing the GV300CAN's location to be monitored in real time or periodically tracked by a backend server and mobile devices. Its built-in 3-axis accelerometer allows motion detection and extends battery life through sophisticated power management algorithms. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including emergency, geo-fence boundary crossings, driving behavior, low battery and scheduled GPS position.

Advantages

- Internal u-blox chipset
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Multiple I/O interfaces for monitoring and controlling
- Internal 3-axis accelerometer supporting driving behavior monitoring, power saving and motion detection
- Internal GSM antenna
- Internal and optional external GPS antenna

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GSM Specifications

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 10 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	GSM850/GSM900: 33.0±2 dBm DCS/PCS: 30.0±2 dBm
Dynamic Input Range	-15 dBm ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability of Frequency	< 2.5 ppm
Max Frequency Error	±0.1 ppm

Interfaces

Digital Inputs	Three digital inputs One positive trigger for ignition detection Two negative trigger inputs for normal use
Digital Outputs	Two digital outputs, open drain, 150 mA max current drain, one output with internal latch circuit
Analog Inputs	One analogue input with selectable input voltage range (0-12V or 0-30V)
1-Wire	Support 1-wire temperature sensor and iButton Driver ID
Vehicle Bus	Support CAN Bus Support J1708 Bus
GSM Antenna	Internal only
GPS Antenna	Internal or external
Indicator LED	CEL, GPS and CAN
Mini USB port	Mini USB port for upgrading and debugging
Serial Port	One RS232 serial port on 16 pin molex type connector, for external devices

General Specifications

Dimensions	80mm*48mm*25mm
Weight	65g
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C -40°C ~ +85°C for storage

GPS Specifications

GPS Chipset	56-channel u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: < 2.0m
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position at preset time and distance intervals
Geo-fence	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
Motion Detection	Motion alarm based on internal 3-axis accelerometer
Special Alarm	Special alarm based on digital inputs
Power Supply Monitoring	Alarm report for external power of the device
Tow Alarm	Alarm report for movement when ignition is off
Speed Alarm	Flexible speed monitoring for unusual speed alarm
Remote Control	OTA control of device outputs
Fuel Level Sensing	Configurable support for fuel level sensing using the vehicle's built-in fuel sensor or gauge
Temperature Detection	Alarm for temperature detection
Identification	Support iButton
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis

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