



GSatTrack

GST-200

Automatic Vehicle Location Device

The GST-200 is a powerful GPS Locator designed for vehicle tracking applications. With superior receiving sensitivity, fast TTFF (Time to First Fix) and Quad-Band GSM frequencies 850 / 900 / 1800 / 1900 , its location can be monitored in real time or periodically tracked by GSatTrack via an web browser, anywhere in the world.

The GST-200 has Multiple input / output interfaces which can be used for monitoring or controlling external devices. Based on the integrated Track protocol, the GST-200 can communicate with a backend server through the GPRS /GSM network to transfer reports of emergency, geo-fence boundary crossings, low battery or scheduled GPS position along with many other useful functions.

Users can also use GST-200 to monitor the status of a vehicle and control the vehicle with its onboard relay output. System Integrators can easily setup their tracking systems based on the full-featured Track protocol.



Advantages

- Wide operating voltage : 8 to 32V DC
- Built in MTK GPS chipset with:
 - 165 dBm tracking sensitivity
 - 147 dBm autonomous sensitivity
- Fast TTFF and high accuracy
- Low power consumption, long standby time with internal battery
- Quad band GSM/GPRS frequencis 850/900/1800/190
- Embedded full-featured @Track protocol
- Multiple input/output interfaces for monitoring and controlling
- Built-in 3D motion sensor for power saving and motion detection
- Certified with CE FCC PTCRB



Specifications

GSM/GPS Specifications

Frequency :	Quad-Band:850/900/1800/1900MHz
GPS Chipset:	MTK All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity:	Autonomous : -148dBm, Hot start : -160dBm, Tracking: -165dBm
Position Accuracy:	Without Aid: 3.0 m 2D-RMS DGPS : 2.5 m
TTF (Open Sky):	Cold start 35s average, Warm start <35s, Hot start <1.2 s

User Interface

Digital Inputs:	5 Digital Inputs. Three positive trigger and two negative trigger
Analog Input:	1 10bits Analog to Digital Converter
Digital Outputs:	4 Digital Outputs. Negative trigger, Max output current 300mA
Relay Output:	1 Built-In Relay Output. Max output current 2A
Audio Connector:	2.5mm Earphone Jack for speaker and microphone
Power Connector:	4 Pin Molex Type Connector
GSM Antenna:	SMA Type Connector
GPS Antenna:	SMA Type Connector
Indicator LED:	GSM,GPS and Power
Configuration Serial Port:	DB9 Connector

General Specifications

Dimension:	120mm* 54mm * 25mm
Weight:	150g
Backup Battery:	Li-Polymer 1400 mAh , 3.7V
Standby Time:	Without reporting:120 to 150 Hours, 5 minutes reporting: 50 to 60 Hours, 10 minutes reporting: 70 to 80 Hours
Operation Voltage:	8 to 32V DC
Operation Temperature:	-30°C ~ +80°C(Without Battery), -40°C ~ +85°C for Storage
Power Management:	Fully Power Path management: internal battery will not be used when external power is connected

Air Interface Protocol

Transmit Protocol:	TCP, UDP, SMS
Scheduled Timing Report:	Report Position follow the pre-set fix interval and report interval
Geo-Fence:	Geo-Fence regions can be defined.
Low Power Alarm:	Alarm when backup battery is running out
Power On Report:	Report when the device is powered on
Tow Alarm:	With built-in motion sensor
Antenna Disconnect Alarm:	Alarm when the GPS antenna is disconnected
Special Alarm:	Special alarm based on the digital/analog inputs.
Remote Control:	Control the digital outputs through air interface protocol