



PRODUCT SPECIFICATION

Motorcycle/Vehicle Tracker

GTR-388

VER: 1.0



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Revision History

Rev. No.	Change History	Issue Date	Remark
0.1	Initiation	2015/11/3	Preliminary
0.2	Feature list modification	2015/11/20	
0.3	Feature list modification	2015/11/30	
0.4	Add co-lay chip SIM request	2015/12/11	
0.5	Add reset button	2015/12/16	
0.6	Revise accessory	2016/4/01	
0.7	Revise GPS and some wording	2016/5/18	
0.8	Update the dimension and revise the function	2016/6/22	
0.9	Remove the GlobalSat logo from top cover	2016/10/03	
1.0	Revise battery description and remove 5V SKU	2016/11/30	

General Description

GTR-388 is designed as durable and multi-functional 3G tracker (fall back with 2G). Compact, robust and waterproof design for motorcycle, electric scooter, golf cart and vehicle small size for easy installation.

Features

- Dual-Band UMTS/HSDPA WCDMA system
- Dual-Band GSM/GPRS/EDGE system
- 820mAh rechargeable battery
- High Sensitivity GPS Receiver
- Compact size and Waterproof IPX7 design
- Built-in high sensitivity GPS/GSM antennas.
- Built-in motion sensor
- AGPS support
- Support communication protocols- SMS/TCP/UDP/HTTP
- Multiple I/Os support :
 - 1 Digital Input for custom function
 - 1 Digital input for optional Emergency button
 - 1 Analog Input
 - 1 Digital Output for Relay
 - 1 Digital Input for ACC detection.
- Configuration and firmware update via Over-The-Air.
- Small size for easy installation
- Perfect power management control
- Thermal solution with IPX7 design and waterproof cable connector

System Specification

Electrical and Mechanical Parameters General	
CPU:	High performance line ARM-base 32-bit MCU
Operating Temperature	-30°C to +60°C (0°C to +45°C for charging)
Storage Temperature	-40°C to + 60°C
GPS Antenna:	Built-in patch ceramics antenna
GSM Antenna:	Built-in Pi-Fa antenna
Communication:	<p>Europe SKU: (EHS5-E:)</p> <ul style="list-style-type: none"> ➤ GSM/GPRS/EDGE: Dual band GSM 900/1800MHz ➤ UMTS/HSPA+: Dual band UMTS 900/2100MHz <p>US SKU: (EHS5-US:)</p> <ul style="list-style-type: none"> ➤ GSM/GPRS/EDGE: Dual band GSM 850/1900MHz ➤ UMTS/HSPA+: Dual band UMTS 850/1900MHz <p>All regions: EHS6</p> <ul style="list-style-type: none"> ➤ GSM/GPRS/EDGE: 850/900/1800/1900MHz ➤ UMTS/HSPA+: 800/850/900/1900/2100MHz
Protocol:	SMS/TCP/UDP/HTTP
Built-in Memory:	32Mb
Power Input:	+12V~+30V
Emergency button Input:	Negative trigger x 1
Ignition (ACC) Input:	Positive trigger x 1
Digital Input Port:	Negative trigger x 1
Digital Output Port:	Negative trigger x 1 (300mA)
Analog Input Port:	Analog input x 1 (0~28V)
Indicator LED:	<p>1. Normal mode:</p> <ul style="list-style-type: none"> Red blinking: Device is being boot and SIM card not ready Red solid: SIM card ready, but network not registered Yellow solid: Network registered, but server not connected Green solid: Network registered, and server connected <p>2. Hiding mode:</p> <ul style="list-style-type: none"> Red blinking: Device is under booting <p>After complete the boot, turn off all LEDs.</p>
Back-up Battery:	820mAh rechargeable
Sensor:	Motion detect (G sensor)
SIM type	Micro SIM & co-lay chip SIM

Electrical and Mechanical Parameters General	
Reset Button	Yes
Unit Weight:	66.5g
Unit Size:	L107.5mm x W38.7mm x H22.8mm
Humidity:	5% to 95% Non-condensing
Certification:	CE, FCC, NCC, PTCRB

GPS Parameters

GPS Parameters General	
Chipset:	High Performance
Frequency:	L1, 1575.42 MHz
Sensitivity:	-146 dBm (Tracking) -158 dBm (Autonomous acquisition)
Channels:	66 channels, each is capable to receive any supported signal
Support SBAS:	WASS, EGNOS, MSAS, RTCM
Accuracy:	Position: 3 meters (2D RMS) 1-5 meters 2D RMS, WAAS corrected. Velocity: 0.1 m/s Time: 1ms RMS
Update rate:	10Hz
Default datum:	WGS-84
Reacquisition:	<1 sec., average
Hot start:	< 1 sec., average
Warm start:	33 sec., average
	< 15 sec (with AGPS)
Cold start:	33 Sec., average (typical) without AGPS
	< 15 sec (with AGPS)
Maximum Altitude:	< 18,000 meters
Maximum Velocity:	< 500 meters/ second
Acceleration:	<4g

WARNING:

In a confined space of the car, there is a big different temperature between inside and outside of the car. In addition, it is also considerable temperature difference between tracker's interior and exterior. Therefore, if you put a tracker in the car, please make sure to place it with good ventilation.

Features of on-line development platform

- A web-based platform for developer's use.
- Receive and show error detection and tracking reports
- Ability to configure device and update firmware via OTA
- Receive and show error detection and tracking reports
- Ability to monitor device status

Accessories

- 8-Pin Hard Wire power & I/O Cable
- Velcro tape
- Magnetic mount & Double-side tape
- External Emergency Button(Optional)
- 12V/24V Relay(Optional)
- OBDII Power Cable(Optional)
- Firmware update& Debug cable (Optional)

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