

PRODUCT SPECIFICATION Motorcycle/ Vehicle Tracker GTR-388C1 (4G LTE Cat.1)

VER: 1.1



General Description

GTR-388C1 is designed as durable and multi-functional highly efficient 4G LTE Cat 1 LTE connectivity GPS tracker offering seamless fall back to 2G and 3G. Compact, robust and waterproof design for motorcycle, electric scooter 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/ Cellular 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
- 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 |
| 510 | -30°C ~ +60°C |
| Operating Temperature | $(0^{\circ}C \sim +45^{\circ}C \text{ for charging})$ |
| Storage Temperature | -40°C ~ + 60°C |
| GPS Antenna | Built-in patch ceramics antenna |
| Cellular Antenna | Built-in Pi-Fa antenna |
| Communication | Europe SKU: (ELS61-E) |
| | Penta-Band LTE: Bands 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 |
| | MHz), Dual-Band GSM 900 and 1800 MHz |
| | |
| | US SKU: (ELS61-US) |
| | Quad-Band LTE: Bands 2, 4, 5, 12 (700, 850, 1700/2100 (AWS) and |
| Communication | 1900 MHz), Tri-Band UMTS: Bands 5, 4, 2 (WCDMA/FDD 850, |
| | 1700/2100 (AWS) and 1900 MHz) |
| | AUS SKU: (ELS61-AUS) |
| | Quad-Band LTE: Bands 3, 5, 8, 28 (1800, 850, 900, 700 MHz), |
| | Tri-Band UMTS: Bands 1, 5, 8 (WCDMA/FDD 2100, 850, 900 MHz) |
| Protocol | SMS/ TCP/ UDP/ HTTP |
| Built-in Memory | 32 Mb |
| Power Input | +12V ~ +30V |
| Emergency button Input | Negative trigger x 1 |
| Ignition (ACC) Input | Positive trigger x 1 |
| | Negative trigger x 1 |
| Digital Input Port Digital Output Port | Negative trigger x 1 (300mA) |
| Analog Input Port | Analog input x 1 (0 \sim +28V) |
| | 1. Normal mode: |
| Indicator LED | 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 |
| | 2. Hiding mode: |
| | Red blinking: Device is under booting |
| | After complete the boot, turn off all LEDs |
| | |



| Electrical and Mechanical Parameters General | |
|--|---------------------------------|
| Back-up Battery | 820mAh rechargeable |
| Sensor | Motion detect (G sensor) |
| SIM type | Micro SIM & co-lay chip SIM |
| Reset Button | Yes |
| Unit Weight | 66.5 g |
| Unit Size | (L)107.5 x (W)38.7 x (H)22.8 mm |
| Humidity | 5% ~ 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 | 10 Hz |
| Default Datum | WGS-84 |
| Reacquisition | <1 second, average |
| Hot Start | < 1 second, average |
| Warm Start | 33 seconds, average |
| | < 15 seconds (with AGPS) |
| Cold Start | 33 seconds, average (typical) without AGPS |
| | < 15 seconds (with AGPS) |
| Maximum Altitude | < 18,000 meters |
| Maximum Velocity | < 500 meters/ second |
| Acceleration | < 4 g |
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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)
- Cigar Lighter Power Cable (Optional)
- Test Box (Optional)

The specifications are subject to change without notice.

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