

GT-320 P10, Portable Tracker with Google Maps Support via SMS/Email

RoHS
Compliant

Portable Tracker / GT-320 P10



Overview

GT-320 P10 is designed as a compact, reliable portable tracker. The embedded GPS/GSM antennas allow it to be placed inside a car without antenna wiring demand.

This sensitive device could be hidden at obscure locations and works silently. The security fence function allows one to protect one's assets with peace of mind.

Check current tracker location, silent monitoring by just making a call.

Applications

- Vehicle/motor home/asset security
- Personal security

Features⁺

- Security fence to track valuable assets.
- Support Google Maps tracking on smart phone
- Call tracker to get current location
- SMS to mobile phones for location/alert update
- Email from tracker for location/alert update
- Voice call for silent monitoring
- Quad-band (850/900/1800/1900) GSM/GPRS
- Ultra-high performance GPS receiver
- Panic (SOS) button for emergency help
- POI (Point Of Interest) support
- Buffer data when there is no GSM coverage
- Automatically transmit buffered data as GSM coverage recovers
- Journey logging up to 112,000+ locations and 34,000+ alerts/emails
- Allow parameter configuration by SMS messages
- Geo-Fence alert
- Battery low alert

- Built in rechargeable Lithium-ion battery (1100 mAh) and charging circuit
- Smart power saving as security fence is enabled.
- Long standby time – 6 days (could be awakened by voice/SMS call; fully charged new battery; 4 location queries a day; wake up every hour for 90 seconds; normal GPS/GSM signal coverage; 25°C)
- Easy configuration by SMS short messages.

⁺: Feature customization is acceptable based on MOQ.

Technical Specifications

GSM/GPRS Characteristic Data

Quad-band	900/1800, 850/1900 MHz GSM phase 2/2+ compliant
GPRS connectivity	GPRS multi-slot Class 10 (default) GPRS multi-slot Class 8 (optional) GPRS mobile station class B
Coding scheme	CS-1, CS-2, CS-3, CS-4
Data transfer rate	Downlink 85.6kbps max. Uplink 42.8kbps max.

GPS Receiver Performance Data

Receiver type	L1 frequency, C/A code
Horizontal Position Accuracy	< 2.5m (Autonomous) < 2.0m (WAAS) (CEP, 50%, 24-hour static, -130dBm, SEP < 3.5m)
Velocity Accuracy	<0.1 m/s (speed) <0.5° (heading) (50% @ 30 m/s)
Time To First Fix	Autonomous (All at -130dBm)
Hot start	1sec
Warm start	32sec

Cold start	32sec
Sensitivity (Autonomous)	-142dBm (acquisition) -159dBm (tracking & navigation)
Max. Update Rate	1Hz
Max. Altitude	< 18,000 m
Max. Velocity	< 1,852 km/hr
Protocol Support	NMEA 0183 v2.3 or newer UART: 4800~115200bps N,8,1; GGA, GSA, GSV, RMC, VTG
SBAS Support	WAAS, EGNOS, MSAS
Dynamics	< 4g

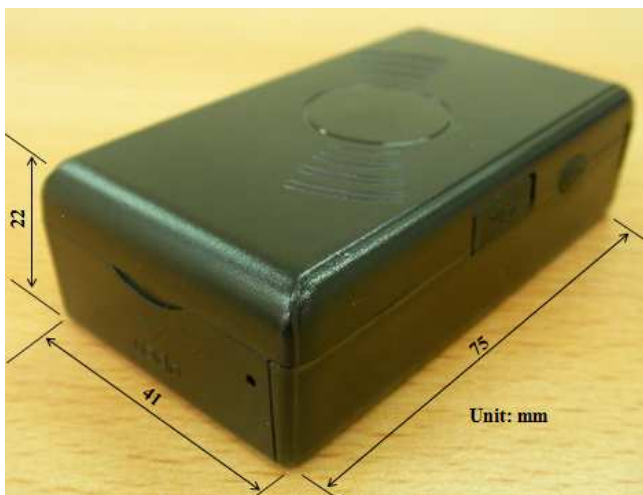
Electrical Data

Power supply	3.7 VDC, 1100mAh Li-ion battery, charged by 5V external power
Power consumption	40~320mA depending on usage

Environmental Data

Operating temperature (0~95% RH)	-20 ~ 60°C (discharging/working) 0 ~ 60°C (charging)
Storage temperature (0~95% RH)	-20 ~ 35°C (long-term storage) -20 ~ 60°C (within 1 week)

Mechanical Data – 75 x 41 x 22 (mm)



Weight – 82g

I/O Interfaces

Console/charging port	4-pin ear-phone connector, female VCC: 5 VDC GND, TX: Console TX RX: Console RX
Status LED	Blue LED, status for * Tracker on/off * Panic enabled * POI reported * Battery low * Normal operation Red LED * Charging on-going (ON) * Charging complete (OFF) Green LED for GPS fix * Steady ON: position not fixed * Blinking: position fixed
Buttons (left and right)	Power on/off Panic (SOS) POI setting Security fence setting Make/answer/hang up calls Volume up/down
SIM card	SIM card holder

Accessories

- ✧ Power cable
- ✧ Velcro pads or anti-slippery pads (optional)
- ✧ USB data cable (optional)

*This document is subject to change without notice.