

RoHS  
Compliant



# GT-320 G10, Google Latitude Capable Portable Tracker w/ Voice and SMS Support

## Overview

GT-320 G10 is designed as a compact, reliable portable tracker that could be easily tracked by Google Latitude (<https://www.google.com/latitude>). It could also be tracked by SMS/email or monitored by voice. All these functions are configurable.

The embedded GPS/GSM antennas allow the tracker to be placed at obscure locations and works silently without antenna wiring demand.

## Applications

- Vehicle/asset security
- Personal care

## Features<sup>+</sup>

- Google Latitude tracking
- GSM/GPRS base station location support (if no GPS fix)
- Get current location by voice call
- Silent monitoring via voice call
- SMS/Email from tracker for location/alert report
- SMS messages for tracker configuration
- Data saved in buffer when there is no GSM coverage
- Automatically transmit buffer data as GSM coverage recovers
- Journey logging buffer up to 112,000+ locations and 34,000+ alerts/emails
- Battery low alert
- Quad-band (850/900/1800/1900) GSM/GPRS
- Ultra-high performance GPS receiver
- Built in rechargeable Lithium-ion battery (1100 mAh)

and charging circuit

- Smart power saving as there is no moving

<sup>+</sup>: 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; Customized all in one proprietary RPO sentence
SBAS Support	WAAS, EGNOS, MSAS
Dynamics	< 4g

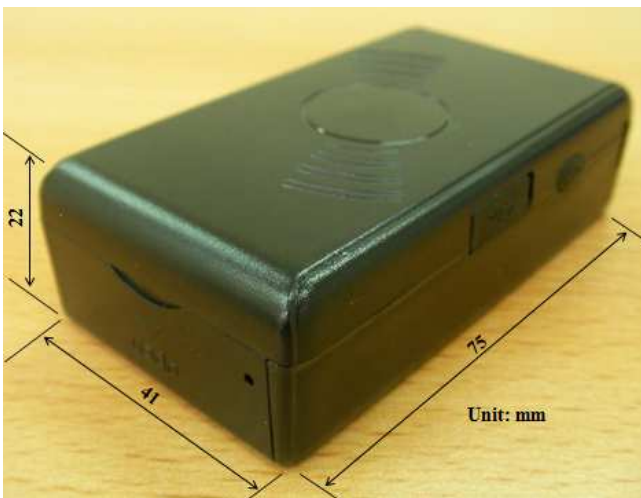
**Electrical Data**

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**

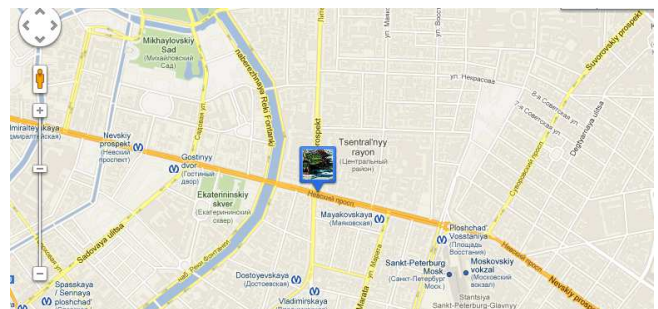
Console/charging port	4-pin ear-phone connector, female VCC: 5 VDC GND, TX: Console TX RX: Console RX
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Status LED	Blue LED, status for * Tracker on/off * Battery low * Normal operation Red LED * Charging on-going (ON) * Charging complete (OFF) Green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

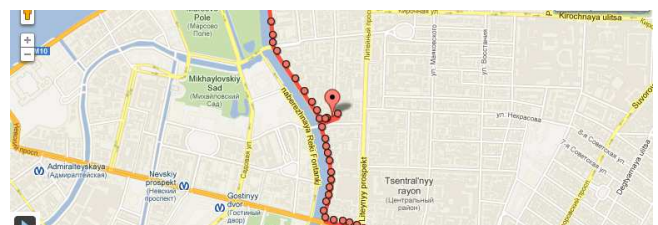
**Accessories**

- ✧ USB power cable (standard)
- ✧ Car charger (optional)
- ✧ Car charger w/ 1.7m cable (optional)
- ✧ Velcro pads / anti-slippery pad (optional)
- ✧ USB data cable (optional)

**Latitude pictures - Current location:**



**History:**



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