



4G GPS/BDS VEHICLE TRACKER

GLCA9094G 4G GPS/BDS Vehicle Tracker

MODEL GLCA9094G

Battery-powered vehicle tracking with GPS/BDS positioning, vibration wake-up, SOS and three operating modes.

**KEY PERFORMANCE****3000 mAh**

BATTERY

GPS + BDS

POSITIONING

IP65

PROTECTION

78 x 39 x 29 mm

DIMENSIONS

TECHNICAL SPECIFICATIONS**POWER AND CONSTRUCTION**

Supply / voltage	Battery powered / DC 3.4-4.5 V
Battery	3000 mAh, 3.7 V lithium-polymer
Current at 4 V (average)	Working: 65 mA; standby: 8 mA; sleep: 3 mA
Enclosure / weight	ABS + PC / 123 g
Ingress protection	IP65

CELLULAR COMMUNICATION

Module	SIMCOM 7670SA (OPEN)
LTE-FDD bands	B1 / B2 / B3 / B4 / B5 / B7 / B8 / B28 / B66
GSM bands	850 / 900 / 1800 / 1900 MHz
SIM format	Micro SIM
Cellular antenna	Built-in FPC antenna

ENVIRONMENT AND ORDERING

Operating temperature	-20 to +75 deg C
Storage temperature	-30 to +80 deg C
Operating humidity	10-85% RH, non-condensing
Minimum order / lead time	100 units / 2 weeks

OPERATION

Alerts, location viewing and electronic fencing use the connected monitoring platform and configured contact numbers.



GNSS POSITIONING AND OPERATING FEATURES

GPS / BDS RECEIVER	
GNSS chipset	AT6558R
Satellite systems / channels	GPS + BeiDou / 64 channels
GPS L1 band	1575.42 +/- 1.023 MHz
BeiDou B1 band	1561.098 +/- 2.046 MHz
GNSS antenna	Built-in, 18 x 18 x 4 mm
Average start time	Cold: 32 s; warm: 1 s
Tracking sensitivity	-162 dBm
Position accuracy	< 10 m (1 sigma)
Timing accuracy	< 30 ns (1 sigma)
Speed accuracy	< 0.1 m/s (1 sigma)
Maximum acceleration	4 g
Maximum speed / altitude	515 m/s / 18,000 m
TRACKING AND ALERTS	
Normal mode	Default 30 s reports; standby after 5 min inactive; 5 min heartbeats; vibration wake-up.
Power-saving mode	Default 30 s reports; sleep after 2 min inactive; no sleep data; vibration wake-up.
Smart mode	Configurable upload interval; 2 min active per cycle; vibration does not wake the device.
Alerts	Vibration, overspeed, electronic fence and SOS. Press the SOS button four times to trigger.
Connectivity and storage	TCP/IP; domain name or IP server; offline data storage and later retransmission.
Device functions	3-axis sensor; built-in microphone; remote configuration and online upgrade.
Shutdown behavior	Remote shutdown requires manual power-on; vibration cannot restart the device.

GLOBAL RF TECH | PRODUCT ENQUIRIES

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