

FZ109 GPS Tracking Device



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Product Overview

The FZ109 4G LTE Cat1 is a compact, IP67-rated waterproof GPS tracker designed for versatile use in truck, car, and motorcycle tracking applications. It offers essential tracking features, including real-time location monitoring, remote engine shutdown, and detection of vehicle engine status.




The FZ109-6pin variant comes with three outputs, two of which can control a buzzer and flashing lights, making it easier to locate vehicles in parking lots.

Product Functions

Items	Functions
Communication	Location Data transmitting- Cellular network (TCP/UDP)
	Commands- Cellular network/Serial port
Position Tracking	Real time location monitoring/querying
	Track by moving (time interval)
	Track by parking (time interval)
	Track by distance
	Cornering report
GPS Mileage	GPS Mileage report/GPS mileage coefficient adjustable
Alarm (Event)	Main power supply cut off
	Ignition on/off report
	Over Speed alarm
	Towing alarm
	Theft alarm
	Vibration alarm
	Geo-fence alarm
	Harsh Braking alarm
	Harsh Acceleration alarm
I/O	1 digital inputs: Ignition detecting 3 digital outputs: Out1: Cut off engine remotely Out2: Buzzer for finding / Over speeding reminder / Theft buzzer Out3: Flashing lights for finding / Theft flashing lights
Buffer	Data in Buffer when in Cellular network blind area
Initialization	Initialize tracker's Parameters via CELLULAR NETWORK/Serial port
Upgrading	upgrading firmware via OTA or Serial port
Waterproof	IP67

Items	Specifications
Product Box Dimension	4.80 × 3.15 × 1.26 inches.
Tracker Dimension	3.62 × 1.57 × 0.71 inches.
Tracker Color	Black
Tracker weight	Net weight: 2.12 Ounces, Total package:3.70 Ounces
Power Supply	Power Supply: DC 9V - 100V
Working current	<40 mA (12V)
Sleep current:	<3mA
Operating Temperature	-14°F to 176°F
Operating humidity	5% - 95% non-condensing
Back-up battery	Built-in 110mAh, support 3 hours of working
LED indicator	3 LED lights, green for GPS status, red for network status
Motion sensor	3D acceleration sensor
Power Switch	Physical switch
I/O Port	1 digital inputs: Ignition detecting (positive trigger)
	2 digital outputs: Out1: Cut off engine remotely Out2(Optional): Buzzer for finding / Over speeding reminder / Theft buzzer Out3(Optional): Flashing lights for finding / Theft flashing lights <i>The 4pin model has only one output(out1), The 6pin model has three outputs (Out1, Out2, Out3)</i>
4G Cellular Module	FZ109-7670C 4G LTE TDD: B34/B38/B39/B40/B41 FDD: B1/B3/B5/B8 <i>China/Southeast Asia/India/Indonesia</i>
	FZ109-7670E 4G LTE FDD: B1/B3/B5/B7/B8/B20 2G GSM/GPRS/EDGE: 900/1800 MHz <i>Southeast Asia: Indonesia, India, Thailand, Laos, Malaysia, Singapore, Korea, Vietnam, etc</i> <i>West Asia: Saudi Arabia, Iran, Qatar, UAE, Dubai, etc</i> <i>Europe: France, UK, Italy, Belgium, Netherlands, Spain, Russia, Ukraine, Turkey, etc</i> <i>Africa: South Africa, Nigeria, Egypt, etc</i>
	FZ109-7670SA 4G LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 2G GSM/GPRS/EDGE: 850/900/1800/1900MHz <i>South America: Brazil, Argentina, Chile, Peru, Colombia, etc.</i> <i>Oceania: Australia, New Zealand, etc.</i> <i>North America: Canada, USA, Mexico</i>
GNSS Module	Support satellites: GPS、GLONASS、QZSS Positioning accuracy: < 2m CEP TTFF @ -130 dBm (AGNSS Enable): Cold start time: < 5.5s Warm start time: < 2s TTFF @ -130 dBm (AGNSS Disable): Cold start time: < 30s Warm start time: < 2s

Standard Package and Optional Accessories

Name	Picture	Standard/Optional Parts
Main unit		Standard
Wire harness	 4 PIN	Standard 4 Pin
Magic tape		Standard
Wire harness	 6 PIN	Optional
Relay (12V or 24V)		Optional
Power Bank	13500 mAh	Optional

Appearance and Structure



Power on the device

Connect the Power cable (**red**) and ground wire (black) to the positive and negative electrodes of the vehicle battery respectively.

LED light Indicators

LED Light		LED Status	Description
GSM(4G LTE)	Red	Off	Power Off or not working
		Always on	Working, but the SIM card cannot be recognized
		Blinking every 0.1 sec	Searching for Cellular Network or connecting to the platform
		Blinking every 1 sec	Online
Peripheral status	Blue	Off	The serial port is not loaded peripheral driver
		Always on	The peripherals are not plugged in
		Blinking every 0.1 sec	Abnormal peripheral communication
		Blinking every 1 sec	Peripheral communication OK
GPS(GNSS)	Green	Off	GPS closed or GPS no data
		Blinking every 0.1sec	Searching GPS signal
		Blinking every 1 sec	GPS valid, Position get fixed

If the **GSM LED** and **GPS LED** **blink together every 1 second**, it means the device is working normally (online and has been located).

If you use a passive peripheral (such as RFID), the **Peripheral LED** **blink for 3 seconds** once the peripheral data is received, and then the LED keep always on.

Contact Us

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