FZ109 GPS Tracking Device



12822 Unison Rd Suite B Houston, TX 77044 (737) 406 2009 https://falconzoom.com info@falconzoom.com support@falconzoom.com

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			
	Main power supply cut off			
	Ignition on/off report			
	Over Speed alarm			
	Towing alarm			
Alarm (Event)	Theft alarm			
	Vibration alarm			
	Geo-fence alarm			
	Harsh Braking alarm			
	Harsh Acceleration alarm			
	1 digital inputs: Ignition detecting			
	3 digital outputs:			
1/0	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			

Falcon Zoom FZ109 User Guide

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		
	1 digital inputs: Ignition detecting (positive trigger)		
	2 digital outputs:		
I/O Domb	Out1: Cut off engine remotely		
I/O Port	Out2(Optional): Buzzer for finding / Over speeding reminder / Theft buzzer		
	Out3(Optional): Flashing lights for finding / Theft flashing lights		
	The 4pin model has only one output(out1), The 6pin model has three outputs (Out1, Out2, Out3)		
	FZ109-7670C		
	4G LTE TDD: B34/B38/B39/B40/B41 FDD: B1/B3/B5/B8		
	China/Southeast Asia/India/Indonesia		
	FZ109-7670E		
	4G LTE FDD: B1/B3/B5/B7/B8/B20		
	2G GSM/GPRS/EDGE: 900/1800 MHz		
	Southeast Asia: Indonesia, India, Thailand, Laos, Malaysia, Singapore, Korea, Vietnam, etc		
4G Cellular Module	West Asia: Saudi Arabia, Iran, Qatar, UAE, Dubai, etc		
To centular Module	Europe: France, UK, Italy, Belgium, Netherlands, Spain, Russia, Ukraine, Turkey, etc		
	Africa: South Africa, Nigeria, Egypt, etc		
	FZ109-7670\$A		
	4G LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66		
	2G GSM/GPRS/EDGE: 850/900/1800/1900MHz		
	South America: Brazil, Argentina, Chile, Peru, Colombia, etc.		
	Oceania: Australia, New Zealand, etc.		
	North America: Canada, USA, Mexico		
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		

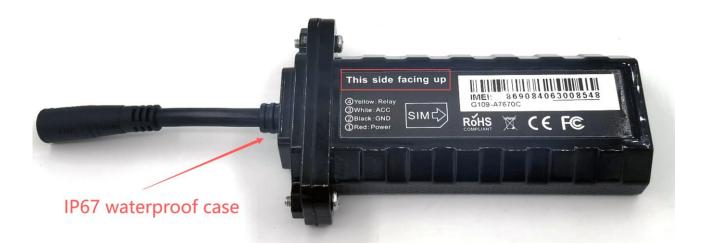
Standard Package and Optional Accessories

Name	Picture	Standard/Optional Parts
Main unit	The side points of participation of part	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

12822 Unison Rd Suite B Houston

TX 77044

(737) 406 2009

https://falconzoom.com

info@falconzoom.com

support@falconzoom.com