

# C50 User Manual



**(Version V2.0)**

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# 1 Introduction

## 1.1 Features

C50 is a 4G OBDII GPS tracker, It has the functions of OBD data collection, accurate location, geofence alarm, fatigue driving setting, power failure alarm, overspeed alarm, idle speed alarm, history trip playback.

It is used in the maintenance industry, insurance industry, corporate fleet industry, automobile manufacturers/4S shops, individual users, electric new energy fields, passenger vehicles, taxis, rental vehicles, etc.

## 1.2 OBD data

Vehicle Odometer, vehicle battery voltage, coolant temperature, OBD speed, engine rpm, engine load, instantaneous fuel consumption, intake air temperature, engine air capacity, manifold absolutely pressure, throttle position, fuel pressure measurement, VIN code.

## 1.3 Specification

Item	Name	Yes	No	Description	
Electrical	OBD interface	●		J1962 OBDII	
	Power supply	●		External power supply	
	Working voltage	●		DC 9V - 35V	
	Working current	●		12V/73.6mA	
	Sleep current	●		12V/ 38.2mA	
	Battery capacity	●		140 mAh (3.7V)	
	Battery type	●		Lithium polymer battery	
Environment	Working temperature	●		-20°C - 75°C	
	Storage temperature	●		-30°C - 80°C	
	Working humidity	●		10%-85% RH	
MCU	MCU model	●		ARM stm32	
Communication	Communication module	●		QUECTEL EC200T (4G)	
	Frequency	●		LTE	LTE FDD: B1/B3/B5/B8
				LTE	LTE TDD: B34/B38/B39/B40/B41
				3G	WCDMA:B1/B8
					TD-SCDMA:B34/B39
			EVDO/CDMA2000 1x :BC0		

			GSM/ EDGE	B3/B8
	SIM card	•	Micro SIM card	
	Antenna	•	Built-in antenna	
GPS/BD	Positioning module	•	ZKMicro AT6558D	
	Cold start	•	32 sec	
	Hot start	•	1 sec	
	Positioning accuracy	•	<10m	
	Sensitivity	•	-162DBM	
	Antenna	•	Built-in antenna	
External interface	CAN wire	•	1 wire	
	Microphone	•	Built-in microphone	
Appearance	Dimension	•	58mm * 45mm * 22mm	
	Material	•	ABS plastic	
	IP level	•	IP65	
	Weight	•	54g	

#### 1.4 Product pictures



## Accessories and LED light status

### 2.1 Accessories

Standard: C50 tracker

### 2.2 LED working status

#### 2.2.1 Red LED (Power/charge status)

status	meaning
On	Working
Off	Power off/Sleep

#### 2.2.2 Yellow LED (GSM signal status)

status	meaning
Flashes once in 2 seconds	GSM initialize
On	GPRS is online
Off	GSM sleep

#### 2.2.3 Blue LED (GPS signal status)

status	meaning
Flashes once in 2 seconds	GPS signal searching
On	GPS fixed
Off	GPS sleep

## 3 Working mode

Static mode: When ACC off, the device will enter static mode, the device will send data every 5 minutes.

Movement mode: When ACC is on, the device will enter movement mode, the device will send data every 10 seconds.

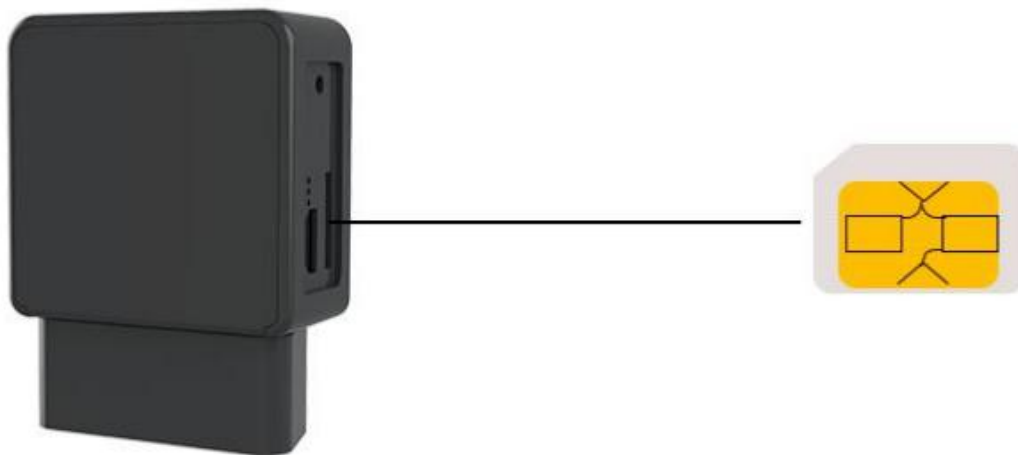
## 4 Installation

### 4.1 Preparation

1. GPS tracker can be worked outdoor. Must have a mobile phone signal and have GPS signal, which can block GPS satellite signal when there has metal and building above the GPS tracker.
2. Please make sure SIM card(4G GSM network or compatibility 4G GSM network) supports making calls, sending messages, online network.
3. Please make sure SIM card is with have money.
4. Please make sure the SIM card has opened the call shows and turned off the call transfer and turned off PIN code.
5. Do not assembly and disassembly device at will.

### 4.2 Install sim card

The device uses Micro SIM card. The card slot is a self-elastic card slot, and the chip orientation is as shown below.



### 4.3 Plugs to the vehicle

The standard is: J1962 OBDII port

Plugs into OBD-II/OBD port, most of the ODB interfaces are distributed as following A.B.C.D.E place



### 4.4 SMS configuration commands

Feature	Command format	Device reply
Authorized number setting	101#13712345678#	OK
Query device status	CXZT	Reply device status, software version, ID number, GPS signal value, GSM signal value, electricity, ICCID number, IEIM number
Query google link	G1234	
Device reboot	CQ	system reset OK!
GPS reboot	CQGPS	GPS reset OK!
Recover factory setting	FORMAT	OK
APN setting	apn123456 cmnet	apn ok
APN user name setting	apnuser123456 user	spnuser ok
APN password setting	apnpasswd123456 password	apnpasswd ok
Moving upload time setting	freq,123456,20	OK

Static upload time setting	static,123456,120	OK
Server IP and port setting	IP IP port Example: IP 198.11.175.123 9056	set IP OK