GoTrack
Track for better life

4G

GPS TRACKING
DEVICE S400

4G

Feature S400
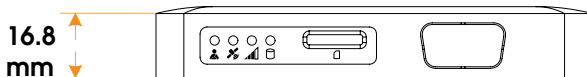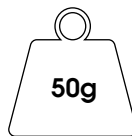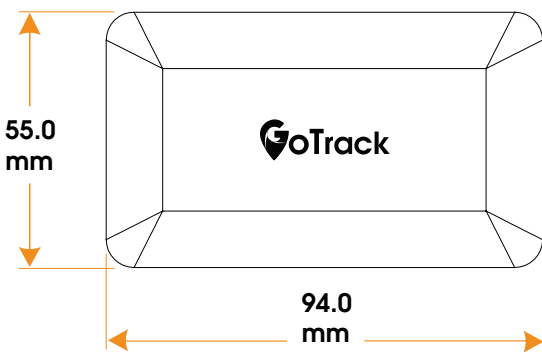
Basic

Real - time online tracking
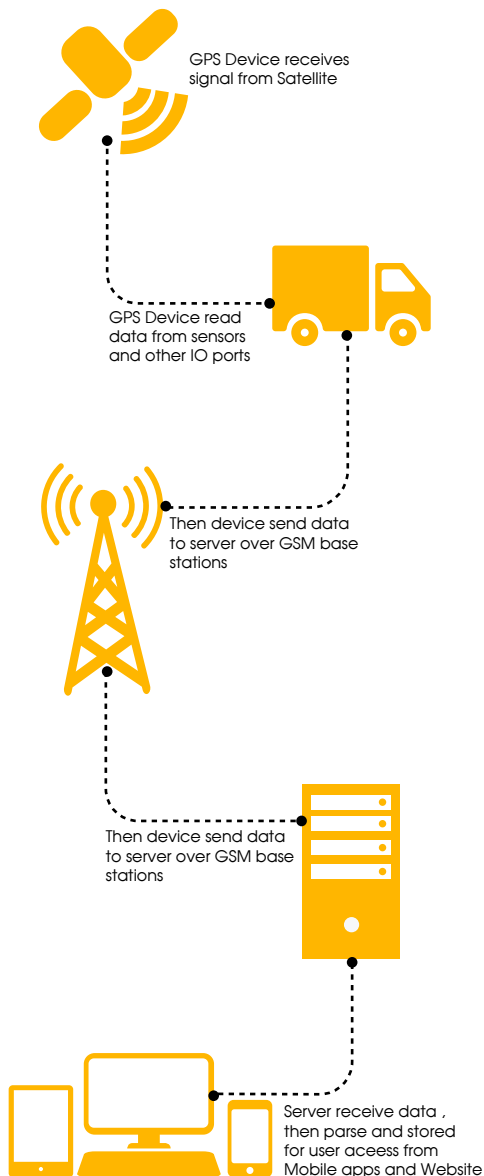
- Realtime Location, History backup Locations
- Fuel Sensor
- Capture photos from Cameras
- Temperature Sensor
- Driver Identification with RFID card
- Monitor Vehicle Battery and other IO signal

Advanced

- Upgrade firmware with OTA Support
- Run multiple sensors at the same time
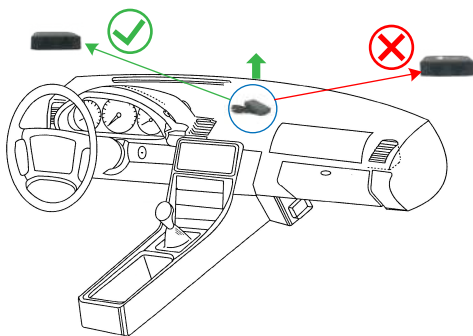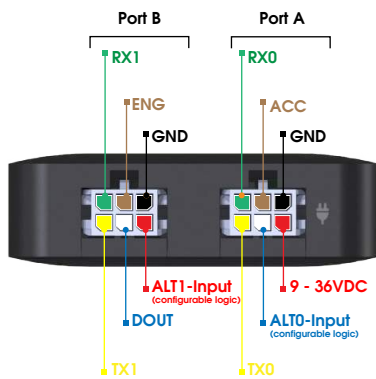- Expanding according to customer requirements

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55.0 mm

94.0 mm

16.8 mm

50g

-20÷85oC ±0.5%

Specifications

S400 How does it work?

- GPS Device receives signal from Satellite
- GPS Device read data from sensors and other IO ports
- Then device send data to server over GSM base stations
- Then device send data to server over GSM base stations
- Server receive data , then parse and stored for user aceess from Mobile apps and Website

Operating environment		
Temperature	Working range	20÷85°±0.5%
	Storage	0÷60°C
Humidity		5÷90%±2.5%

Electrical characteristics			
Operating voltage rangeg		9÷36VDC	
Rated supply voltage		12/24VDC	
Consumption Current	Active	48÷60mA	@12VDC
	Idle	22÷24mA	
	GPS sleep	10/12mA	
Protection function		Protect from short-circuit and over-current events	
		Protect from over-voltage	
		Reverse polarity	
Backup battery		Pin Li-Poly	Optional
		Supercapacitors : 0.1F 3v6	Integrated
Digital output		Maximum load current: 50mA Maximum voltage: 24VDC	
Digital input		0 - 36 VDC Logic level: 4V	

Wireless Connectivity and satellite			
4G/LTE	Modem	SIMCOM A7670E	
	Antena	Internal	
	Frequency	TDD-LTE B38/B40 FDD-LTE B1/B3/B5/B7/B8/B20 GSM/GPRS/EDGE 900/1800 MHz	
	Data transfer	LTE CAT1:Uplink up to 50Mbps,Downlink up to150Mbps • EDGE Class: Uplink/Downlink up to 236.8Kbps • GPRS: Uplink/Downlink up to 85.6Kbps	
	SMS	Yes	
	Protocols	TCP/IP	
GNSS	Module	SIMCOM SIM68M	
	Chipset	MT3333	
	Systems	GPS+Glonass	
	Performance	Tracking:-165 dBm Reacquisition:-160 dBm Cold starts:-148 dBm Cold starts:28 s Warm start:26 s Hot starts:<1s	
	Antenna	Built-in patch antenna ceramic with A high gain LNA	
	Accuracy	< 10m	
RFID reader	Chipset	CR95HF	Please choose international version(in vietnam is obligatory)
	Frequency	13,553 ÷ 13,567 MHz	
	Standard	ISO/IEC 14443 Type A and B ISO/IEC 15693 (single or double subcarrier)	
	Reflex (main)	≤ 4,5 mW ERP	
	Emissivity (fake)	Operation mode: 0.67 µA / m (-3.5 dB µA / m) Standby: 0.06 µA / m (-24.5 dB µA / m)	
	Reading distance	Max 3cm	
	Compatible card	I.CODE SLI, TAG_IT	
	QCVN	QCVN96:2014/BTTTT QCVN55:2010/BTTTT	

Connect and install

Protection stamp whenthe device is Online

Nano SIM Card

Port B   Port A

RX1   RX0
ENG   ACC
GND   GND

ALT1-Input (configurable logic)   9 - 36VDC
DOUT   ALT0-Input (configurable logic)
TX1   TX0

User manual

1. Signal port và Led status

1.1 Led status

Led	Status	Description
Driver	Stable light not blinking	The driver has logged in
	No light	No driver logged in
	Slow Blinking(**)	No Driver detected / registered when vehicle moving
	Fast blinking(**)	RFID reader not work properly
GNSS	Stable light not blinking	Initialzing and reading Satellite signal
	No light	GNSS module have issues
	Slow Blinking (**)	Sleep mode
	Fast blinking(**)	Good signal, can update real-time location
NETWORK	Stable light not blinking	Detecting Network
	No light	Not registered on network No SIM Card Installed/ Unusual incident
	Fast blinking(**)	Connected successfully to the server
MEMORY	Stable light not blinking	Normal memory
	No light	Error / malfunction memory
	Fast blinking	Accessing memory

1.2 Indicator buzzer horn

No	Status	Description
1	One beep	The device is powered on
2	One beep, 1 time/min	Vehicle is moving, no driver logged in
3	Two beep	Driver logged in
4	Three beep	Driver logged out
5	Fast and continuous beep	Overspeed
6	Slow and continuous beep (1time/s)	Overtime driving
7	Continuous (500ms/time)	Overtime driving, Overspeed

2. Signal port

Port	Pin	Color	Description
Port A	RS232_TX0	Yellow	Connect to RX and TX (cross connection) of the sensor RS232 communication standard
	RS232_RX0	Green	
	ALT0	White	Digital input (active level configurable)
	Ignition (ACC)	Oranges	Connect the signal wire of the vehicle ignition key, High-Level Active
	VDC_in	**Red**	**Connect with positive voltage 12/24 VDC**
	GND	**Black**	**Connect with Mass**
Port B	RS232_TX1	Yellow	Connect to RX and TX (cross connection) of the sensor RS232 communication standard
	RS232_RX1	Green	
	DOUT	White	Control Output with Low-Level Active
	ENGINE	Oranges	Connected to the vehicle's engine signal, High-Level Active
	ALT1	Red	Digital Input (active level configurable)
	GND	Black	Connect with Mass

Peripheral connection diagram

Engine	PIR Sensor	Ignition

Relay
87
87a
86 30 85

Alarm

Pulse/ Trigger

Camera or sensor

Temperature sensor

RS232 Peripherals

Door sensor

SOS Emergency button

Air conditioner

Digital Input

Battery