SMART ECO

4G Waterproof Vehicle GPS Tracker

4G LTE
Support 4G/3G/2G network

GPS
Multiple positioning systems for high-precision real-time positioning

9-100V Power Supply
9-100V wide operating voltage applied to all types of vehicles

IP66 Waterproof
IP66 Water-resistant ensures stable operation in tough environment

Low Fuel and Fuel Theft Alarm
Prevents fuel theft and leakage by capacitive/ultrasonic fuel sensor

Multiple I/O
2 Inputs+1 Output+1 Mic+1 USB Port, 2 AD Optional, 1RS232 Customizable

Driver Behavior Monitoring
Support harsh acceleration alarm, breaking alarm, harsh turning alarm, speeding alarm, drunk driving alarm, etc.

Fuel Monitoring (Optional)
Support capacitive/ultrasonic fuel sensor for fuel monitoring

Application:

Fleet Management

Private Car

Motorcycle

Bus

MCU Specification

MCU	ARM Cortex-M4，AT32F415CBT7

Power Specification

Input Voltage Range	DC 9 - 100V/1.5A
Back-up Battery	55 mAh Li-Ion Battery

Interface Specification

Digital Inputs	2 Digital inputs（Can be configured by software for high and low level trigger, Analog input, IN2 is set to ACC detection by default)
Digital Outputs	1
Microphone	1
RS32/TTL	1, Customizable
GSM Antenna	Built-in FPC
GPS Antenna	Built-in Ceramic Antenna（25 X 25 X 4mm)
USB	2.0 Micro-USB
LED indication	2 status LED lights: 1 x blue LED, 1 x green LED, Internal, Visible outside of light
SIM	Nano SIM Card

Physical Specification

Dimensions	80*34*15mm (L x W x H)
Weight	About 48g

Operating Environment

Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP66
Working temperature	-20℃~80℃

Features Specification

Sensors	3D Accelerameter
Flash Memory	16M bit

Module Specification

4G Module	SIMCOM A7670/SIM7070G/SIM7500
Technology	LTE/GSM/GPRS/GNSS
Bands	Cat-1(A7670)，4G LTE，SIMCOM VT100-L CN: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 GSM: 900/1800MHz Standard version I/O: DICIN+GND+OUT1+IN2+SOS+MIC (8-wire) VT100-L EU: LTE-FDD: B1/B3/B5/B7/B8/B20 GSM: 900/1800MHz Standard version I/O: DICIN+GND+OUT1+IN2+SOS+MIC (8-wire) VT100-L SA: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900MHz Standard version I/O: DICIN+GND+OUT1+IN2+SOS+MIC (8-wire) Cat-M/Cat-NB/GSM(SIM7070G), SIMCOM VT100-L MNG: Cat-M: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/ B28/B66/B85 Cat-NB: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/ B66/B71/B85 GSM: 850/900/1800/1900MHz Standard version I/O: DICIN+GND+OUT1+IN2+SOS (6-wire) Cat-1(SIM7500)，4G LTE，SIMCOM VT100-L NA-7500： LTE-FDD: B2/B4/B12 WCDMA: B2/B5 Standard version I/O: DICIN+GND+OUT1+IN2+SOS(6-wire) VT100-L SA-7500： LTE-FDD: B1/B3/B5/B7/B8/B28 WCDMA: B1/B5 Standard version I/O: DICIN+GND+OUT1+IN2+SOS(6-wire)

GNSS Specification

GNSS	GPS, BEIDOU
GPS Module	L76K（GPS+BDS）Dual Mode Positioning
Receiver	33 Channel
Tracking sensitivity	-165 dBm
Accuracy	< 2.5m CEP
Hot start	< 1 s
Cold start	< 35 s

Scenarios	Fixed Distance Tracking, Timed Tracking, Mobile Phone SMS Alarm, Mileage Report, Support Dual Server, Fatigue Driving, Speeding Alarm, SOS Alarm, Built-in Battery Low Battery Alarm, Cut off External Battery Alarm, Engine, Door Status Change Alarm, GEO-fence Alarm, Harsh Deceleration Alarm, Harsh Turning Alarm, Towing Alarm, Collision Alarm, Idling Alarm, Turn Report, Remote Cut-off (petrol/power), Buzzer Alarm, Fuel Monitoring, Listen-in
Sleep modes	Normal Sleep: GPS Close, GSM Sleep, Deep Sleep: GPS Close,GSM Close.
Configuration and firmware update	FOTA, Local upgrade (USB)
SMS	Configuration and query parameters
GPRS commands	Configuration and query parameters
Fuel monitoring	Analog（RS232 Optional）