



VT800

Vehicle Tracking Device

FEATURES

I/O Interfaces

Geo-Fencing

Notification Alerts

SOS or Tamper

Immobiliser

Motion Sensor

IP67 Rated Protection

Over the air
configuration
and upgrade

COMPETITIVE PRICE WITH CUTTING EDGE TECHNOLOGY

The VT800 is an affordable compact size vehicle tracking device with an IP67 fully-sealed waterproof enclosure and wide voltage input range with power surge suppressor allowing the device to be installed on any 12/24V vehicles including motorcycles.

The device is equipped with a 56-channel high sensitivity GPS receiver. The superior internal antennas for both cellular and GPS eliminates the need for external wired antennas and makes the device easy to install virtually anywhere in the vehicle. The emulated ignition mode allows the device to determine the engine running status without physical wiring to the vehicle ignition and the optional OBD connector allows the device to be easily connected to the vehicle OBD2 port without any physical wiring to the vehicle battery for power source.

INTELLIGENT AND FLEXIBLE TRACKER WITH EFFICIENT PROTOCOL

The VT800 is built with an intelligent adaptive location tracking algorithm that minimizes the number of location updates without compromising on the accuracy of the location tracking. With a compact and efficient communication protocol, the device utilizes minimal data well suited for our Global M2M Data SIM making it cost effective to operate anywhere in the world.

With 4 digital inputs, 2 outputs and RS232 interface, the device caters for flexible connectivity with various external sensors. The on-board edge processing engine continuously monitors for power-cut, low battery, over-speed, shock, geo-fencing and inputs and triggers immediate alerts.



M2M SIM WITH WORLDWIDE COVERAGE

The VT800 is built with an embedded SIM (eSIM) for higher reliability and security. The eSIMs have a longer lifespan and can withstand high temperatures, shocks and vibrations. As the eSIMs are soldered directly on the device, it is impossible to remove the eSIMs for misuse and protects our partners from their competitors taking control of the devices and thus their customer accounts. The eSIMs also provide for easy over-the-air switching of the SIM profiles to other operators.

The M2M SIM provides worldwide coverage using more than 450 network operators in over 190 countries. Multiple operators in certain countries ensure full network coverage within the country. The low data usage on the M2M SIM enables the device to operate at a lower cost compared with most local SIMs within the country and even lower for cross border operations.

DEVICE MANAGEMENT PLATFORM

The devices are integrated with our Device Management Platform within a virtual private cloud for secured 2-way communications. The platform provides activation and deactivation of the devices, over-the-air configuration parameters, remote commands and firmware upgrades. The platform also provides integration to 3rd party telematics applications.

The platform allows our partners to easily manage and configure their fleet of devices and monitor the connectivity status of the devices.

SPECIFICATION

PHYSICAL

Dimensions	100 x 48 x 20mm
Weight	75g
Built-in Memory	3 MB
SIM	MFF2 embedded
Protocol Support	TCP, UDP, SMS, USSD

INPUT/OUTPUT

Digital Input	4
RS232 Interface	1
Digital Output	2
Status LED	Power, GPS, Cellular

ENVIRONMENTAL

Temperature	-20° to +75°C (operating) -40° to +85°C (storage)
Humidity	5% to 95% non-condensing
Enclosure	Waterproof IP67 compliant

ELECTRICAL

Input Voltage	9-50 V DC with surge suppressor
Backup Battery	Li-Polymer 105mAh

VT800**GSM Specification**

Network	2G Only
Operating Frequencies	GSM 850/900/1800/1900 MHz
Transmitter Power	GSM 850/900 Class 4 @ 2W GSM 1800/1900 Class 1 @ 1W
Data Rate	GPRS Class 12: 85.6 Kbps
Cellular Antenna	Built-in

GPS Specification

GPS Receiver	56 Channels GPS/QZSS L1 C/A, GLONASS L10F SBAS: WAAS, EGNOS, MSAS
Time to First Fix	Cold start: 29 s Hot start: 1 s
Sensitivity	Tracking & Navigation: -162 dBm Reacquisition: -160 dBm Cold start: -148 dBm
Location Update Rate	up to 10 Hz
Horizontal Accuracy	2.5m CEP
GPS Antenna with LNA	Built-in
Anti-Jamming	Active CW detection and removal