



# VEHICLE TRACKER (VT04)

**Spectrum**   
EMBEDDED SOLUTIONS



## Product Profile – Vehicle Tracker

### Who we are

Spectrum Embedded Solutions is a next generation upcoming technology company established in 2006. We are a Rapidly Blooming Electronic Product Development Consultant, offering extensive customized services and solutions along with Low Volume Manufacturing. We offer end-2-end product design, services including Industrial design, mechanical design, and hardware/software design and manufacturing support, to global OEMs in the wireless and consumer electronics industry. We are a team of experts with high degree of integrity and passion for engineering.

Our Focal Industries:

- Automotive Industries
- Industrial Automation
- Commercial Products
- Domestic Products

### What is VT04?

VT04 is a well-built robust vehicle tracker designed with authentic and astute methodology of tracking the vehicles for a better utilization and easy management of vehicles.

This VT04 can also operates on low-power consumption mode that withstands up to 300 days for eminent tracking with live tracking, location status tracing, history playback on-the-map and report playback (for speed, distance, location and time calculation) features.

VT04 is a well-equipped tracker focused on round-the-clock real-time tracking. Based on GPS and GSM or GPRS communication, the exact location of your vehicle can be easily addressed on our Google-assisted maps which can be seen through our server supported desktop user logins and also by our android mobile Apps.

Having an internal backup data memory, during no GSM signal areas VT04 can able to store the locations (it travelled) with respect to time for a period of 15 days.



## Product Profile – Vehicle Tracker

### Features of VT04

- All-time live tracking
- Tracking on demand
- Tracking by time interval
- Login through Web Application as well as Android Application
- Engine Immobilizer
- Tracking and Monitoring History
- Ignition On/Off Status and Alerts
- Fuel Tank Open/Close Status and Alerts
- Fuel Level Sense
- Temperature Monitor
- Vehicle Battery Status
- 2 Digital Inputs, 2 Digital Outputs and 2 Analog Inputs
- Configurable through SMS
- In-built Embedded Antenna
- Low-power consumption mode
- Tamper proof
- Vibration alert
- Low battery alert
- Over Speed, Idle Time and Scheduled Alerts
- SMS and GPRS TCP communication
- Data logger mechanism during the un-availability of GSM signal
- Downloadable Reports in PDF or Excel
- One Time Server & App Charges
- Onsite Support
- 1 Year Manufacturer Warranty
- Made in India



## Product Profile – Vehicle Tracker

### VT04 Characteristics

Parameters	Specification
Input Voltage	DC 9.0 – 30.0V
Power Consumption	1mA in Sleep Mode 100mA in Active Mode
Battery Backup	3.7V, 750mAh (Lithium ion battery) Up to 5Hrs Standby
Dimensions	95mm X 60mm X 28mm
Weight	160g (including battery)
Operating Temperature	-20 <sup>0</sup> C to 55 <sup>0</sup> C
Humidity	5% to 95% (Non-condensing)
GSM Module	Quad band(850,900,1800,1900 MHz)
SIM Type	Normal SIM
GPS Type	AGPS
GPS Sensitivity	Acquisition : -148dBm Tracking : -165dBm Reacquisition : -160dBm
GPS Frequency	L1 (1575.42MHZ)
Channels	22 (Tracking) / 66 (Acquisition)
Position Accuracy	< 10 M 2D RMS
Velocity Accuracy	< 0.1m/s
Acceleration Accuracy	0.1m/s <sup>2</sup>
Timing Accuracy	1PPS Out (10ns)
Reacquisition	< 1s
Hot Start	< 1s
Cold Start	< 15s
Warm Start	< 5s
Altitude Limitation	Max.18000m
Velocity Limitation	Max.515m/s
Acceleration Limitation	4G
IO's	Two Digital outputs Two Digital Inputs (Ignition, Any Ground sense) Two Analog inputs
Alarm System	Immobilizer External-Gradual Stop



## Product Profile – Vehicle Tracker

### Our Clients

The below are some of our valuable clients experiencing our Vehicle Tracking Device.

#### Corporate Concern

1. ABT Transports, Coimbatore
2. Sanjay Technologies, Coimbatore
3. Elgi Industries, Coimbatore
4. Cravaka Info Systems, Hyderabad
5. Secutrax Solutions , Chennai
6. Arniot Solutions Pvt Ltd , Bangalore
7. Adaptek Technologies, Chennai
8. RK Systems and Solutions , Erode
9. Carrot Ventures, Kerala
10. Altius Infosystems, Coimbatore
11. K.G Groups, Coimbatore

#### Textile Mills

1. The Chennai Silks,
2. Sangeeth Groups,
3. Ragupathy Spinners
4. AGT Mills
5. SPP Krishna Mills
6. Victory Mills

#### Schools/Colleges

1. Chettinadu Public School , Karaikudi
2. St. Joseph, Chennai
3. Alagappa University, Karaikudi
4. Best Engineering College, Karaikudi
5. SPK School, Karaikudi
6. Chellapan Vidya Mandir, Karaikudi





## Product Profile – Vehicle Tracker

### VTS Brands Comparison Chart

S.No	Product Features	SES Tracker	Local Brands	Chinese Brands
1	GSM Operating Band	Quad Band	Dual Band	Dual Band
2	Operating Voltage	9V - 36V DC	12V DC	12V DC
3	Location Tracking	✓	✓	✓
4	Device Login on web server	✓	✓	✓
5	History & Live Tracking with Address	✓	✓	✗
6	Location Via SMS	✓	✗	✗
7	Mobile Application	✓	✓	✓
8	Multiple days tracking on map	✓	✓	✓
9	Vehicle Dashboard Info in server	✓	✗	✗
10	Vehicle Status in Reports	✓	✗	✗
11	SMS Alerts	✓	✓	✗
12	I/p - Analog/Digital	2/2	Optional	✗
13	O/p - Relay	2/2	Optional	✗
14	Ignition Sense & Alerts	✓	✓	✗
15	Fuel Tank open/close alert	✓	✗	✗
16	Fuel Level Status	✓	✓	✗
17	Vehicle battery monitor	✓	✗	✗
18	Vehicle battery low alert	✓	✗	✗
19	Vehicle Maintenance Status & Alerts	✓	✗	✗
20	Temperature Monitor & Alert	✓	✗	✗
21	Geo-fence	✓	✓	Optional
22	Internal back up battery	✓	Optional	Optional
23	Fuse Protections	✓	✗	✗
24	Customer Care	✓	✗	✗
25	Onsite Support	✓	✗	✗
26	Warranty - 2 yr	✓	Optional	✗
27	Device Installation Support	✓	✗	✗

\* - Device cost may vary with additional options.

SES Tracker Devices are completely MADE IN INDIA.

SES Tracker Devices are strictly adhering to Vehicle Manufacturer Instruction and has Fuse Protections.

SES Tracker Devices are solely manufactured and marketed by SES only.

The above chart indicates for comparison only and not for claim purposes.



## Product Profile – Vehicle Tracker

### Product Images



Fig 1. Top Front View



Fig 2. Top View

### Demo Video

<http://www.spectrumes.com/applicationnotes1.php?id3=11>

### Business Details

**Our aim is to provide client/customers with timely and comprehensive service.  
For any assistance, please contact our company headquarters:**

#### **Spectrum Embedded Solutions**

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**For more details, please visit:**

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### **GENERAL NOTES**

THE INFORMATION SUPPLIED HEREIN IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



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**23/6, VISHWA PARADISE,  
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