

VT25g Technical Specification

The VT25g is a GPS / GPRS based tracking unit that is suitable for use with automatic vehicle location, temperature monitoring, road tolling and fleet management systems. Its compact size and robust construction mean that it can be concealed behind the dash of most vehicles. The unit will operate from a wide range of voltages from 6 to 48V, making it suitable for 6V, 12V, 24V and 42V vehicles. Two additional inputs are available: Ignition - used to start position reporting, and Door - used to monitor any other signal you wish. The location system of the VT25g is based on the high performance SiRFStar III chipset.

Dimensions

Size:

Height: 30mm

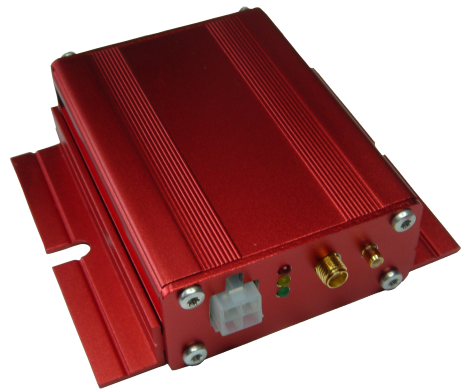
Length: 84mm + 10mm for connectors

Width: 62mm + 20mm for flanges

Note: mounting flanges are optional

Weight:

190g



GPS Receiver

SiRF Star III 20 channel L1 receiver with high sensitivity, fast acquisition and re-acquisition giving excellent performance in urban canyon conditions.

Cold / Warm / Hot start times: 42 / 38 / 1 seconds, based on open sky and stationary environments.

Re-acquisition time: 0.1s

Multi-path mitigation hardware.

Accuracy: 10 meters 2D RMS

5 meters 2D RMS, WAAS corrected

<5 meters (50%)

Velocity: 0.1 meters/second

Datum: WGS-84

GSM Module

Quad-Band Cinterion MC55i GSM 850/900/1800/1900MHz

GPRS multi-slot class 10

Compliant to GSM phase 2/2+

Optional factory fitted SIM card from customer selected network.

Irish Robotics

Embedded Systems Design

Web: www.irishrobotics.ie

Phone: +353 1 8353938

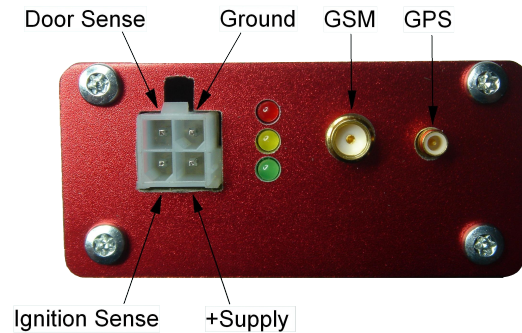
Connections

- 1) Supply (6V to 48V) Red Wire
- 2) Ground (0V) Black Wire
- 3) Ignition sense (supply = on) Blue Wire
- 4) Door open detect (supply = on) Yellow Wire

The unit is supplied with a 1-meter automotive wire connecting loom.

GSM connector: SMA female

GPS connector: SMB male



Electrical

Supply: 6 to 48V with load-dump protection.

Current*:

60mA @ 6V

30mA @ 12V

15mA @ 24V

*Average values; not transmitting.

Environmental

Operating: -25 to +75°C

Storage: -40 to +85°C



Contact Details

Irish Robotics
Unit 32 Ashbourne Industrial Estate,
Ashbourne,
Co. Meath
Ireland.

T: +353 (0)1 8353938

M: +353862344779 (Dave Bingham)

M: +353851560333 (Dermot O'Connor)

For sales: sales@irishrobotics.ie

Website: www.irishrobotics.ie