









# VIGILANCE™ Hardware Specifications

## MOBILE SERIES

### CORE DATA DEVICE AND OPTIONAL ACCESSORIES

	Portable built-in GPS/GSM.
	Over-the-air firmware and configuration updates reduce hassle to recall vehicles for maintenance.
	High capacity internal battery with option for extended battery.
	Intelligent sensor switch to detect detachment of device from target.
	Over-the-air commands can be sent to the remote terminal to open or lock doors, immobilise engine and cut off fuel among other possible functions.
	Client-based and Web-based applications providing positional/status/alerts information with high quality maps and customisable reports.
	Serial connection for computer, PDA or mobile data terminal applications (Bluetooth optional).
	Programmed exception reports for events including doors opened or locked, panic button, temperature sensors, engine monitoring, idling time and more.

### GENERAL FEATURES

GPS	MODULE	uBlox
	RECEIVER TYPE	<ul style="list-style-type: none"> <li>50 channels</li> <li>GPS L1 frequency, C/A Code</li> <li>&gt; 1 million correlators</li> </ul>
	SENSITIVITY	<ul style="list-style-type: none"> <li>Tracking: -160 dBm</li> <li>Reacquisition: -160 dBm</li> <li>Autonomous: -144 dBm</li> </ul>
	ENVIRONMENTAL DATA	<ul style="list-style-type: none"> <li>Operational limits: <ul style="list-style-type: none"> <li>Altitude: 50,000 m</li> <li>Velocity: 500 m/s</li> </ul> </li> <li>Operating temperature: -40°C to 85°C</li> </ul>
	ELECTRICAL	<ul style="list-style-type: none"> <li>Low power consumption</li> <li>Internal antenna supply</li> <li>Antenna short circuit detection</li> <li>High immunity jamming</li> </ul>
GSM / GPRS	MODULE	Dual / Quad band
	FREQUENCY BAND	<ul style="list-style-type: none"> <li>EGSM 850, EGSM 900, GSM 1800, GSM 1900 MHz</li> <li>Compliant to GSM phase 2/2+</li> </ul>
	GPRS	<ul style="list-style-type: none"> <li>Multi-slot class 10</li> <li>Mobile station class B</li> </ul>
	ENVIRONMENTAL DATA	<ul style="list-style-type: none"> <li>Operating temperature: <ul style="list-style-type: none"> <li>Normal operation: -20°C to 70°C</li> <li>Restricted operation: -20°C to 70°C</li> </ul> </li> <li>Storage temperature: -40°C to 70°C</li> </ul>
	SIM INTERFACE	<ul style="list-style-type: none"> <li>1.8V and 3V</li> </ul>
POWER SUPPLY	BATTERY	Rechargeable Li-ion battery 3.6V to 3.9V
CONFIGURATION	LOCAL	Via micro-USB cable
	REMOTE	Via SMS or GPRS messages

### VEHICLE TRACKER OPTIONAL FEATURES

AES 256	<ul style="list-style-type: none"> <li>256 bits encryption</li> <li>Both DATA and COMMAND encrypted over GPRS</li> <li>Messages keys encrypted further by base key</li> </ul>
OBD	Interface with vehicle OBD to retrieve vehicle statistics
IMMOBILISER / SPEED LIMITER	Immobilise or limit speed of vehicle for designated roads
IO PORTS	Able to connect to external sensors (door sensors, seat sensors, temperature sensor)

### PERSONNEL TRACKER OPTIONAL FEATURES

WI-FI MODULE	<ul style="list-style-type: none"> <li>Send location data over Wi-Fi</li> <li>Determine location via Wi-Fi access points (for indoors)</li> </ul>
MOTIONLESS SENSORS	Sensor to detect "man-down" situations
VOICE CALLS	Ability to communicate with or listen in on tracked personnel
SOS	SOS button for tracked personnel to alert command centre during emergencies