

# SG-VT02-GPRS Specification

REV.A2  
2005/6/30

## Power

Power supply	DC 9V ~ DC 16V	Power Consumption	45mA ~ 55mA ( Stand By )
Operating current ( Battery Pack )	80mA ~ 90mA standby current		
	100mA ~ 120mA SMS current		
	250mA ~ 350mA talking current		
	100mA ~ 150mA GPRS online current		
Battery Pack	7.2V 1700 mAh Dimension : 10.7mm (H) * 53mm(W) * 68mm(L)		
Battery standby time	Apprx 17 Hours		
Battery charging time	Apprx 4 Hours		
Operating Temperature	'-20 ~ +70		

## GSM Module

Module	Telit GM-862 GPRS ( Dual band )		
Operating Frequency	E-GSM-900	(TX : 890Mhz ~ 914.8Mhz , 880,2Mhz ~ 889.8Mhz) (RX : 935Mhz ~ 959.8Mhz , 925,2Mhz ~ 934.8Mhz)	
	DCS-1800	( TX : 1710.2Mhz ~ 1784.8Mhz ) ( RX : 1805.2Mhz ~ 1879.8Mhz )	
TX output power	GSM-900	2W peak RF power ( +33dBm ) on 50 Ohm	
	DCS-1800	1W peak RF power ( +30dBm ) on 50 Ohm	
Sensitivity	GSM-900	Class 4 , portable terminal better than -102 dBm	
	DCS-1800	Class 1 , portable terminal better than -102 dBm	

## GSM Antenna

Bandwith	80 Mhz in GSM and 170 Mhz in DCS Band
Impedance	50 Ω
Input Power	> 2W peak Power

## GPS Module

Chipset Solution	UNAV
Center Frequency	1575.42 Mhz L1 Band . C/A code
Sensitivity	> -140 dBm
Protocol	NMEA-0183 V3.0
Positioning System	WGS-84

## GPS Antenna

Frequency Band	1575.42 ± 2 Mhz
Gain	+24dBi
Output Impedance	50 Ω

	Function	Description
<b>Input</b>	Emergency	SOS button
	Alarm in ( Door Open )	Door Open Detect
	RC Arm In	Signal connect from original car alarm / Arm
	RC Disarm In	Signal connect from original car alarm / Disarm
	Crash	Detect Crash sensor
	ACC	When ACC been trigger will have alarm out to Siren

	Function	Description
<b>Output</b>	Alarm Out	Output to Siren
	Engine Out	Cut off engine circuit (With relay)
	Door Lock	Lock Door Trigger
	Door Un-Lock	Open Door Trigger

# SG-VT02 Tri Band GPRS Specification

REV.A2

2005/6/30

## Power

Power supply	DC 9V ~ DC 16V	Power Consumption	45mA ~ 55mA ( Stand By )
Operating current ( Battery Pack )	80mA ~ 90mA standby current		
	100mA ~ 120mA SMS current		
	250mA ~ 350mA talking current		
	100mA ~ 150mA GPRS online current		
Battery Pack	7.2V 1700 mAh Dimension : 10.7mm (H) * 53mm(W) * 68mm(L)		
Battery standby time	Apprx 17 Hours		
Battery charging time	Apprx 4 Hours		
Operating Temperature	-20 ~ +70		

## GSM Module

Module	Telit GM-862 PCS ( 3 band Module )		
Operating Frequency	E-GSM-900	(TX : 890Mhz ~ 914.8Mhz , 880,2Mhz ~ 889.8Mhz) (RX : 935Mhz ~ 959.8Mhz , 925,2Mhz ~ 934.8Mhz)	
	DCS-1800	( TX : 1710.2Mhz ~ 1784.8Mhz ) ( RX : 1805.2Mhz ~ 1879.8Mhz )	
	PCS-1900	( TX : 1850.2Mhz ~ 1909.8Mhz ) ( RX : 1930.2Mhz ~ 1989.8Mhz )	
TX output power	GSM-900	2W peak RF power ( +33dBm ) on 50 Ohm	
	DCS-1800	1W peak RF power ( +30dBm ) on 50 Ohm	
	PCS-1900	1W peak RF power ( +30dBm ) on 50 Ohm	
Sensitivity	GSM-900	Class 4 , portable terminal better than -102 dBm	
	DCS-1800	Class 1 , portable terminal better than -102 dBm	
	PCS-1900	Class 1 , portable terminal better than -102 dBm	

## GSM Antenna

Bandwith	80 Mhz in GSM and 170 Mhz in DCS Band
Impedance	50 Ω
Input Power	> 2W peak Power

## GPS Module

Chipset Solution	UNAV
Center Frequency	1575.42 Mhz L1 Band . C/A code
Sensitivity	> -140 dBm
Protocol	NMEA-0183 V3.0
Positioning System	WGS-84

## GPS Antenna

Frequency Band	1575.42 ± 2 Mhz
Gain	+24dBi
Output Impedance	50 Ω

	<b>Function</b>	<b>Description</b>
<b>Input</b>	Emergency	SOS button
	Alarm in ( Door Open )	Door Open Detect
	RC Arm In	Signal connect from original car alarm / Arm
	RC Disarm In	Signal connect from original car alarm / Disarm
	Crash	Detect Crash sensor
	ACC	When ACC been trigger will have alarm out to Siren

	<b>Function</b>	<b>Description</b>
<b>Output</b>	Alarm Out	Output to Siren
	Engine Out	Cut off engine circuit (With relay)
	Door Lock	Lock Door Trigger
	Door Un-Lock	Open Door Trigger