

## iStartek VT900



VT900 is a GPS/GPRS based tracking device, specially developed and designed for vehicle real-time tracking and fleet management.

Items	Specifications
Model Name	VT900
Brand	iStartek
Power Supply	+10.6V - +36V / 1.5A
Backup Battery	500mAh
Normal power consumption	65mA/h
Dimension	65 x 61 x 26mm
Weight	90g
Work time	30 hours in power-saving mode and 6 hours in normal mode
Operating temperature	-20° to 65° C
Humidity	5% to 95% Non-condensing
Frequency	<b>VT900 T</b> UMTS/HSDPA: 850/2100MHz GSM/GPRS: 850/900/1800/1900MHz <b>VT900 A</b> UMTS/HSDPA: 850/1900MHz GSM/GPRS: 850/900/1800/1900MHz <b>VT900 E</b> UMTS/HSDPA: 900/2100MHz GSM/GPRS: 900/1800MHz
GPS Module	Quectel L70



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3G Module	Quectel UC15
GPS Sensitivity	-159Db
GPS Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Position Accuracy	10 meters, 2D RMS
Velocity Accuracy	0.1 m/s
Time Accuracy	1 us synchronized to GPS time
Default datum	WGS-84
Reacquisition	0.1 sec., average
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Altitude Limit	18,000 meters (60,000 feet) max
Velocity Limit	515 meters/second (1000 knots) max
LED	2 LED lights to show GPS/GSM status
Flash Memory	8MB
Interface	1RS232+1AD+3IN+2OUTPUT

## VT900 3G Module Specification:

Frequency Range	880.2-914.8MHz( EGSM900), 1710.2-1784.8MHz(DCS1800)
RF Output Power	31.81 dBm, 29.48
Type of Antenna	Integral Antenna
Mode of Operation (Simplex/Duplex)	Duplex
R&TTE EC Certificate No.	R-120320601

## VT900 GPS Module Specification:

Chipset	SiRF Star IV, GSD4e ROM Version (SiRF -9333)
Frequency	L1 1575.42MHz
Code	C.A. Code.
Channels	48 track verification channels
Sensitivity	-Tracking Sensitivity -159dBm -Autonomous Acquisition – 148dBm
Chipset Cold Start (Open Sky)	35sec
Chipset Warm Start (Open Sky)	35sec
Chipset Warm Start (Open Sky)	1sec
Reacquisition	0.1sec typical
Position Accuracy	Within 10m for 90% (24hr static, -130dBm)
Maximum Altitude	1800m
Maximum Velocity	515 m/s
Update Rate	1Hz
Protocol	Default 9600bps



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	GGA(1),GSA(1),GSV(5),RMC(1)
Interface	
I/O Pin	24pins
Power Consumption	
Vcc	DC +3.3V@ ±5%
Current ( GPS Tracking)	Normal mode: VCC_IN CURRENT TYP. $\leq 40\text{mA}@3.3\text{V}$ (without ext. antenna) Hibernate mode :VBATT current TYP. $20\mu\text{A}@3.3\text{V}$ (without ext. antenna)
Operating/Storage temperature	-40 ~ 85°C
Humidity	$\leq 95\%$