

Rover9 -Vehicle Track



GPS Vehicle Tracker has designed with SoC (System On Chip) solution to bring more reliability and stability to the over whole performance. Indeed, GPS Vehicle Tracker has been ranking as premium car alarm system by insurance companies across the world.

GPS Specifications:

	SIRF STAR III chipset version	Nemerix chipset version
GENERAL		
Frequency	L1, 1575.42 MHz.	L1, 1575.42 MHz
C/A code	1.023 MHz chip rate	1.023 MHz chip rate
Channels	20	16
ACCURACY (OPEN SKY)		
Position	10 meters, 2D RMS.	7 meters CEP (90%) horizontal, SA off.
Time	1 microsec synchronized to GPS time.	1 microsec synchronized to GPS time.
Velocity		0.1 meters/second

DATUM

Default	WGS-84.	WGS-84.
Other	Support different datum by request.	Support different datum by request.

ACQUISITION RATE (OPEN SKY, STATIONARY REQUIREMENTS)

Reacquisition	0.1 sec., average.	0.1 sec., average.
Hot start	1 sec., average.	10 sec, average
Warm start	38 sec., average.	38 sec, average
Cold start	42 sec., average.	45 sec, average
Snap start		2 sec, average

DYNAMIC CONDITIONS

Altitude	18,000 meters (<60,000 feet) Max	18,000 meters (60,000 feet) max
Velocity	736 m/s (<1,000 knots) max	515 m/s (1000 knots) max
Acceleration	4 G, max	4g, max
Jerk	20 meters/second, max	20 meters/second, max

RF INTERFACE

RF interface	Minimum signal tracked: -159dBm	
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GSM MODEM SPECIFICATIONS

Power Supply	Power supply Single supply voltage 3.4V – 4.5V Power saving Typical power consumption in SLEEP mode to 3mA
Frequency bands	Tri-band: EGSM 900, DCS 1800, PCS 1900 or Tri-band: EGSM 850, DCS 1800, PCS 1900 Compliant to GSM Phase 2/2+ GSM class Small MS
Class	Transmit power Class 4 (2W) at EGSM900 Class 1 (1W) at DCS1800 and PCS 1900 GPRS connectivity GPRS multi-slot class 10 GPRS mobile station class B
Temp. range	Operating temp. : -25°C to +70°C Storage temp. : -40°C to +80°C

ELECTRICAL CHARACTERISTICS

Input Voltage Power	+9~37 Volt DC regulated / 2A-MAX (GSM Transmit)
Consumption	12 Volt – 100~320 mA (GPS On Line, GSM/GPRS On Line) 12 Volt – 60 mA (GPS on line, GSM standby) 12 Volt – <20 mA (GPS in Power Down Mode, GSM Standby)
Backup Power	Nickel Metal Hydride Battery – 700 mA
Memory Backup	Flash Memory – Data retention – 200 Years. 64 Kbyte (64000 * 8 Bits data)

CASE ENVIRONMENTAL CHARACTERISTICS

Op. Temp.	-25°C to +70°C (board temperature)
Output	4 digital outputs (200mA max)
Digital Inputs	5
Analog Inputs	1
RJ Ports	a) 1 RJ11 port for serial RS232 (low speed 9600 Baud) and Direct GPS output RS232 (4800 or 9600 Baud – depending on GPS module) b) 1 RJ11 port for voice I/O c) 1 RJ45 MULTI port for HS (115200) Direct modem access (TTL-CMOS).

PHYSICAL CHARACTERISTICS

Dimension	95mm * 77mm * 30mm
Weight	220 g
Case	Aluminum case