GV-GPS Receiver

The GV-GPS Receiver can work with GV-System, GV-Video Server and GV-Compact DVR to perform GPS vehicle tracking. It comes with three types of models: UART, RS-232, and USB. Each model can only work with appropriate Hardware and Firmware version as described below:

Model	Interface	Baud Rate	Compatible IP Device		
GV-GPS UART	UART	9600	GV-Video Server (GV-VS02A)		Firmware Version 1.00 or later
			GV-Video Server (GV-VS04A)		
			GV-Video Server (GV-VS04H		Firmware Version 1.04 or later
GV-GPS 232	RS-232 Wires	9600	GV-Video Server (GV-VS12)		Firmware Version 1.00 or later
			GV-Compact DVR V1		Firmware Version 1.52 or later
			GV-Compact DVR V2	Standard Model (GV-LX4C2)	Firmware Version 1.00 or later
				Anti-Vibration Model (GV-LX4C2V)	
	PS/2 Connector	9600		Anti-Vibration ACC Model (GV-LX4C2V)	Firmware Version 1.05 or later
			GV-Compact DVR V3	Anti-Vibration ACC Model (GV-LX4C3V, GV-LX8CV1, GV-LX8CV2))	Firmware Version 1.00 or later
GV-GPS USB	USB Connector	4800	GV-System		Firmware Version 8.3.2 or later

Specifications

Chipset	
Chipset	SiRF Start III
Electrical Characteristics	
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm
Accuracy	
Position Horizontal	Position Horizontal
Velocity	Velocity
Time	Time
WAAS enabled	WAAS enabled
Datum	
Datum	WGS-84
Acquisition Rate	
Hot Start	1 sec. average (with ephemeris and almanac valid)
Warm Start	38 sec. average (with almanac but not ephemeris)
Cold Start	42 sec. average (neither almanac nor ephemeris)
Reacquisition	0.1 sec. average (interruption recovery time)
Protocol	
GPS Protocol	Default: NMEA 0183 (Secondary: SiRF binary)
GPS Output Data	SiRF binary >> position, velocity, altitude, status and control ; NMEA 0183 protocol supports command: GGA, GSA, GSV, RMC, VTG, GLL (VTG and GLL are optional)
GPS Transfer Rate	Default : 9600,n,8,1 for NMEA Default : 4800,n,8,1 for NMEA (for GV-GPS USB only)

Dynamic Condition	
Acceleration Limit	Less than 4g
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/sec. (1,000 knots) max.
Jerk Limit	20 m/sec x 3
Temperature	
Operating	-40°C~ 85°C / -40°F ~ 185°F
Storage	-40°C~ 85°C / -40°F ~ 185°F
Humidity	Up to 95% non-condensing
Power	
Voltage	4.5V ~ 6.5V
Current	80mA typical (Continuous mode)
Physical Characteristics	
Dimensions (D x H)	53 x 19.2 mm / 2.09 x 0.76 in
Cable Length	2.7 m / 8.86 ft
Installation Guide	GV-GPS Receiver

Note: All specifications are subject to change without notice.