

Features

- Embedded with an SIRFIII GPS, active antenna and 8Mb non-volatile memory.
- FIFO (First-In-First-Out) logging logic.
- Compact size, portable and easy to be installed.

Applications

- Vehicle and asset tracking
- Navigation while connected with PC or PDA.

Specification

PHYSICAL CONSTRUCTION		PERFORMANCE	
Dimension:	42 (W) x 63 (L) x 27.5 (H) mm	Antenna element:	High-reliability ceramic patch
Weight:	80 grams (\pm 5% ~ 10% or 10 ~ 20 grams) without cable	Antenna LNA:	Gain: 23+/-2dB, NF: 2.0 max.
Receiving frequency:	1575.42MHZ, C/A code	Sensitivity	-159 dbm
Enclosure:	Corrosion-proof & polycarbonate resin	Receiver architecture:	20 parallel channels
LED Indicators:	Red (power)	Reacquisition time:	0.1 sec. average
	Green (GPS & logging)	Position accuracy:	10m 2D RMS and 5m 2D RMS with WAAS enable
Flash Memory Size:	8 megabytes	Velocity accuracy:	0.1 Knot RMS steady state
Charging Indicator:	Red lights on when charging	Update rate:	1 sec. continuous
ENVIRONMENTAL CONDITIONS		Operation time	15 hours in continuous use after batteries are fully charged in <i>power saving mode</i>
Temperature:	Operating: -30 °C ~ +75 °C Storage: -40 °C ~ +85 °C	Dynamics:	Up to 50m/s.s. (Tracking sustained)
Humidity:	95% RH non-condensing	Power supply:	USB @ 5V, with reverse protection
COMMUNICATION		Current Consumption	100mA @ 4V
Protocol:	NMEA 0183 at 4800 Baud rates	Power Consumption:	0.4Watt max.
Signal level:	USB Interface (standard) Cigarette Lighter for automobile use	EMI filter:	Rejects power line interference
DATA CABLE (Mini USB -> USB with +5.0V Input)		GPS INTERFACE CAPABILITY	
Length:	90 cm (standard)	Output Protocol:	NMEA 0183 Sentences
Description:	1. Multi-conductor shielded cable with USB receptacle with strain relief 2. When using GL-50-BT, this USB cable is only for 5V power supply purpose, and no data output.	Default output sentences	RMC, GGA
		Adjustable output sentences	GLL, GSA, GSV, VTG and ZDA
		*San Jose Navigation, Inc. may add other NMEA sentences to the standard output to maximize interfacing capabilities.	
Cigar Adaptor Cable (+12V -> +5V)		Default Logger Interval:	RMC: 60 sec. (log when GPS is fixed) Others: 00 sec.
Length:	30cm (standard)	Built-in Logger Functions:	Available
Description:	Cigar adaptor converts 12.0V DC to 5.0V DC and supply power to device.	Logging Data Interval Programmability:	Available

This specification is subject to change without prior notice.

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