Navisys NaviSys Technology - Your Location Partner

GR-310, SiRFstarIII, Sleek, Bluetooth, USB Dongle

GPS Receiver

CE OFFE





inserted into an optional battery bank.

Overview

GR-310 is a sleek, easy to bring, ultra-high performance, low power GPS smart antenna with USB connector. In addition to wired connection, it also supports Bluetooth wireless communication. The built-in SiRFstarIII chip and our experienced design provide fast acquisitions and excellent tracking performance. It is a perfect navigation companion with Smart phone, MID, PDA, Notebook PC, UMPC etc.

The embedded string hole allows one to bring this sleek device as a necklace or a key chain.

Applications

- Vehicle navigation device
- GPS Souvenir

Features

- Compact, sleek, lightweight
- Based on SiRF's GSC3f low power single chip
- Bluetooth version 2.0, class 2
- Both wired (USB) and wireless (Bluetooth)
 navigation support
- High performance: -159dBm tracking sensitivity
- Low power: 70mA at continuous tracking
- SBAS (WAAS, EGNOS, MSAS) support (optional)
- Backup battery support for faster position fix
- Green LED for GPS position fix indication
- Blue LED for Bluetooth status indication
- Sleek design for bringing as necklace or key chain
- It becomes an independent portable unit when

Technical Specifications

Receiver Performance Data

Receiver Type	20-channel,
	L1 frequency, C/A code
	GPS:1575.42MHz
Horizontal Position	< 2.5m (Autonomous)
Accuracy	< 2.0m (WAAS)
	(50% 24hr static, -130dBm)
Velocity Accuracy	<0.01 m/s (speed)
	<0.01° (heading),
	(50%@30m/s)
Time To First Fix	Autonomous
Hot start	<1sec
Warm start	<35sec
Cold start	<42sec
	(50% -130dBm)
Sensitivity	-142dBm (acquisition)
(Autonomous)	-159dBm (tracking)
	(-142dBm 28dB-Hz with 4dB noise figure)
Max. Update Rate	1Hz
Max. Altitude	<18,000 m
Max. Velocity	<1,852 km/hr
Protocol Support	NMEA v3.00, 4800bps N,8,1;
	GGA, GSA, GSV, RMC, VTG
Datum	WGS-84
SBAS Support	WAAS, EGNOS, MSAS (optional)
Dynamics	<4g

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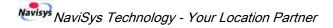
Tel: +886-3-5632598

Sales contact: <u>sales@navisys.com.tw</u>

http://www.navisys.com.tw/ Fax: +886-3-5632597

Technical support: service@navisys.com.tw

Address: 2F, No.56, Park Ave. II, Science-Based Industrial Park, Hsinchu 300, Taiwan (R.O.C.)



Bluetooth Data

Version 2.0	Downward compatible with ver.1.0/1.1/1.2
Class 2	Communication range: Up to 10 m
Profile	SPP (Serial Port Profile)

LED Display

Green LED	Always on as position is not fixed
	Blinks as position is fixed
Blue LED	Always off w/o Bluetooth connection
	Blinks 2s on 2s off w/ Bluetooth connection

Electrical Data

Power Supply	3.3V~5.5 VDC
Power	70mA/continous tracking,
Consumption	communicating via Bluetooth interface

Environmental Data

Operating temperature	-20 ~ 60°C
Storage temperature	

Other Data

Connector

USB A-type

Male Plug

Ordering Information

GR-310X

Α	GGA, GSA, RMC, VTG@1Hz, GSV@1/5Hz
	4800bps, N-8-1

Note. Other baud rate, NMEA sentences, or even datum could be customized based on MOQ.

Optional Accessory

- USB cable of length 1.5m for extending the GPS signal reception range.
- Car charger with USB connector for powering GR-310 or charging a battery bank (BB-100).





BB-100 battery bank for powering GR-310





BB-100

BB-100 and GR-310

*This document is subject to change without notice.

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