

GR-300, SiRFstarIII, Compact Ultra-High Performance USB Dongle GPS Receiver

FOHS Compliant

Horizontal Position

Velocity Accuracy

Time To First Fix

Hot start

Warm start

Cold start

Sensitivity

(Autonomous)

Max. Altitude

Max. Velocity

Datum

Protocol Support

SBAS Support

Dynamics

Max. Update Rate

Accuracy



GPS:1575.42MHz

< 2.0m (WAAS)

<0.01 m/s (speed)

<0.01° (heading),

(50%@30m/s)

(50% -130dBm)

-142dBm (acquisition)

(-142dBm 28dB-Hz with 4dB noise figure)

NMEA v3.00, 4800bps N,8,1;

GGA, GSA, GSV, RMC, VTG

WAAS, EGNOS, MSAS (optional)

-159dBm (tracking)

Autonomous

<1sec

<35sec

<42sec

1Hz

<18,000 m

WGS-84

<4g

<1,852 km/hr

< 2.5m (Autonomous)

(50% 24hr static, -130dBm)

Overview

GR-300 is a compact, easy to bring, ultra-high performance, low power USB GPS receiver. The built-in SiRFstarIII chip and our experienced design provide fast acquisitions and excellent tracking performance. It is a perfect companion with Notebook/Tablet PC, UMPC etc. The embedded string hole allows one to bring this slim device as a necklace or a key chain.

Applications

- USB GPS souvenir
- Navigation companion device
- GPS supplement to tablet PC

Features

- Compact, sleek, lightweight
- Based on SiRF's GSC3f low power single chip
- High performance: -159dBm tracking sensitivity
- Low power: 44mA at continuous tracking
- SBAS (WAAS, EGNOS, MSAS) support (optional)
- Backup battery keeps fixing data for 10 days for faster position fix after first initial fully charging.
- Green LED for GPS position fix indication
- Slim design for bringing as necklace or key chain

Electrical Data

Power Supply	5 VDC
Power Consumption	44mA/average tracking

Technical Specifications

Receiver Performance Data

Receiver Type	20-channel,
	L1 frequency, C/A code

Environmental Data

NaviSys Technology Corp.

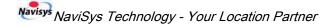
Tel: +886-3-5632598

Sales contact: sales@navisys.com.tw

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.)



Storage temperature	Storage temperature	
---------------------	---------------------	--

Other Data

Dimension

With Cap	21 x 72 x 13.4 (±0.25; mm)
Without Cap	21 x 65.9 x 13.4 (±0.25; mm)

Weight

With Cap	18±0.5 g
Without Cap	16.4±0.5 g

Connector

USB A-type

Male Plug



Ordering Information

GR-300X

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.

Tel: +886-3-5632598 Fax: +886-3-5632597
Sales contact: sales@navisys.com.tw Technical support: service@navisys.com.tw

http://www.navisys.com.tw/

^{*}This document is subject to change without notice.