

GR-600, Cute, Compact, Ultra-High Performance GPS USB Dongle



Overview

GR-600 is a cute, compact, easy to bring, ultra-high performance, low power GPS USB dongle. The built-in u-blox 6 chip and our experienced design provide fast acquisitions and excellent tracking performance. It is a perfect companion with tablet PC, Netbook, UMPC, Notebook PC etc. The embedded string hole allows one to bring this cute device as a necklace or a key chain.

Applications

- Vehicle navigation device
- Automatic vehicle location

Features

- Cute, compact, lightweight
- Based on u-blox 6 low power single chip
- High performance⁺: -161dBm tracking sensitivity
- Low power: 56mA at continuous tracking
- SBAS (WAAS and EGNOS) support (optional)
- Green LED for GPS position fix indication
- Cute design for bringing as necklace or key chain
- Windows **location sensor** support
- Supports all major operating systems (Windows, Linux, MAC OS etc.)

Technical Specifications

Receiver Performance Data⁺

Receiver Type	50-channel, L1 frequency, C/A code
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Horizontal Position Accuracy	< 2.5m (Autonomous) < 2.0m (WAAS) (CEP, 50% 24hr static, -130dBm)
Velocity Accuracy	<0.1 m/s (speed) <0.5° (heading), (50% @30m/s)
Time To First Fix	Autonomous
Hot start	<1sec
Warm start	<32sec
Cold start	<32sec (50% -130dBm)
Sensitivity (Autonomous)	-147dBm (acquisition) -161dBm (tracking & navigation)
Max. Update Rate	5Hz
Max. Altitude	<50,000 m
Max. Velocity	500 m/s
Protocol Support	NMEA 0183 v2.3 (compatible to 3.0), 4800~115200bps N,8,1; GGA, GLL, GSA, GSV, RMC, VTG
Datum	WGS-84
SBAS Support	WAAS, EGNOS, MSAS, GAGAN
Dynamics	<4g

⁺ Spec by IC supplier

Electrical Data

Power Supply	5 VDC
Power Consumption	56mA/average tracking

Environmental Data

Navisys Technology Corp.

Tel : +886-3-5632598

Sales contact: sales@navisys.com.tw

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

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

Fax: +886-3-5632597

Technical support: support@navisys.com.tw

Operating temperature/	-20 ~ 60°C
Storage temperature	

Other Data

Dimension

With Cap	60 x 18 x 10 (±0.25; mm)
Without Cap	55 x 18 x 10 (±0.25; mm)

Connector

USB A-type

Male Plug



Ordering Information

GR-600X

A	GGA, GLL, GSA, GSV, RMC, VTG
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Optional Accessory

- USB cable of length 1.5m for extending the GPS signal reception range.

*This document is subject to change without notice.