



Quick Installation Guide

GPS Mouse Receiver

Model: GM720 GM725



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Before You Start

Your new Navibe GPS mouse allows you to turn any PDAs (Pocket PC) or PCs into a GPS Navigation System.

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Introduction

The Navibe Systems GPS-mouse is a high performance GPS receiver, designed with SiRF Star III single chipset. By using SiRF Star III single chipset, GPS-mouse processes high sensitivity to satellite signals with low power consumption. It can track up to 20 satellites at a time and update data position every 0.1 second.

Product Features

- ▶ 20 parallel channels for fast acquisition and reacquisition
- ▶ SBAS (WAAS, EGNOS-EURO Geostationary Navigation Overlay Service) option
- ▶ Full navigation accuracy provided by Standard Positioning Service (SPS)
- ▶ Dual serial communication channels and user selectable baud rates allow the design with maximum interface capability and flexibility
- ▶ Support standard NMEA 0183 protocol (Version 3.0 GGA, GSA, GSV, RMC, VTG)
- ▶ Support backup power to sustain internal clock
- ▶ Internal RTC (Real Time Clock)
- ▶ Water resistant –IPX1

Product Applications

- ▶ Car navigation
- ▶ Marine navigation
- ▶ Fleet management
- ▶ AVL
- ▶ Personal navigation
- ▶ Tracking system
- ▶ Mapping device application



Technical Support

If you have any questions or problems installing the GPS mouse, please contact Technical Support.

Hours: Weekdays 9 a.m. ~ 6 p.m.

Taiwan

<http://www.navibe.com>

E-mail: service@cpss.com.tw



FOR GM725 PLEASE DO NOT USE PS2 CONVERTER TO DIRECT CONNECT TO PC. (The pin assignment is different from PC's PS2 pin, please refer to **Pin Assignment**.)

Hardware Description



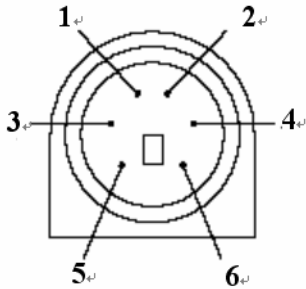
Performance

Receiver	20 parallel channels
Frequency	L1, 1.57542 GHz, C/A code
Acquisition time	
Cold	Approximately 42 seconds, typical TTFF(95%)
Warm	Approximately 38 seconds, typical TTFF(95%)
Hot	Approximately 01 seconds, typical TTFF(95%)
Re-acquisition	Once per 0.1 second, continuous
GPS accuracy	
Position	2D RMS: approx. 10m
Sensitivity	
Acquisition	-149 dBm (average) or less in Normal mode -159 dBm (average) or less in High sensitivity mode
Tracking	-159 dBm (average) or less
Dynamics	
Altitude	Max. 18000 m
Velocity	Max. 515 m/sec
Acceleration	±4g

Power

Power Supply +4.5VCD to +5.5VCD

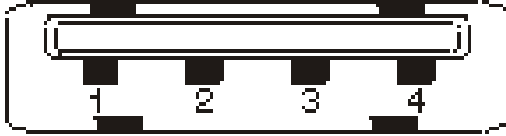
GM725 Pin Assignment



Pin	Signal Name
1	RX (TTL)
2	RX (RS-232)
3	Ground
4	TX (RS-232) – GPS output (NMEA)
5	TX (TTL) – GPS output (NMEA)
6	+5 VDC

GM720 Pin Assignment

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Remark:

I/O: USB 1.1 connector

Pin	Signal Name
1	+5 VDC
2	-Data
3	+Data
4	Ground