



# **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 (GSC3f Base band processor with intergrated flash memory and RF front end) 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 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](mailto: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**.)

**GM725 OPTIONAL ACCESSORY : USB CONVERTIBLE CABLE.  
(PLEASE DOWNLOAD USB CONVERTIBLE CABLE DRIVER  
FROM <http://www.navibe.com> )**



## Hardware Description

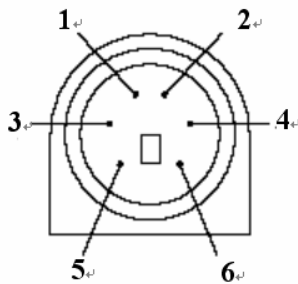


### Performance

<b>Receiver</b>	20 parallel channels
<b>Frequency</b>	L1, 1.57542 GHz, C/A code
<b>Acquisition time</b>	
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
<b>GPS accuracy</b>	
Position 2D RMS:	approx. 10m
<b>Sensitivity</b>	
Acquisition	-149 dBm (average) or less in Normal mode -159 dBm (average) or less in High sensitivity mode
Tracking	-159 dBm (average) or less
<b>Dynamics</b>	
Altitude	Max. 18000 m
Velocity	Max. 515 m/sec
Acceleration	± 4g
<b>Power</b>	
Power Supply	+4.5VCD to +5.5VCD



## GM725 Pin Assignment

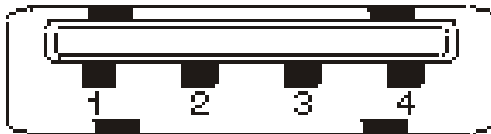


### Remark:

1. I/O: PS2 connector
2. Cable length of 2 meters
3. connecting with 6-pin RS232 bridge

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



### Remark:

1. I/O: USB 1.1 connector
2. Cable length of 2 meters

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