



ZIPPY TECHNOLOGY CORP.

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GPS Receiver

SiRF Star II

GMS-N08-D

User's Guide





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1. INTRODUCTION

Thank you for choosing theGMS-N08-D, the compact size 12-channel integrated GPS receiver for Palm and Pocket PC based PDA. Please take some time to read through this manual to get familiar with the operating features of the GMS-N08-D. The GMS-N08-D consists of a high-performance GPS engine and built-in patch antenna. It provides fast positioning and instant real-time navigation while consuming only small amounts of power. The GMS-N08-D delivers quality navigation information to the PDA or PC at 4800-baud rate in NMEA protocol. Operating it with GPS-enabled map software, you will arrive at your destination comfortably and effortlessly.

2. Features:

- Builds on SiRF Star IIe/LP (low power consumption) chipset with embedded ARM7TDMI CPU available for customized applications in firmware.
- 12 parallel satellite-tracking channels for fast acquisition and reacquisition.
- High-speed signal acquisition using 1920 time/frequency search channels.
- Built-in hardware Tracking Loop Processor WAAS/EGNOS Demodulator and NDGPS/U.S. Coast Guard Beacon support.
- Low power consumption.
- Built-in rechargeable battery for memory and RTC backup and for fast Time to First Fix (TTFF).
- Support NMEA0183 v2.2 data protocol.
- Enhanced algorithms provide superior navigation performance in urban, canyon and foliage environments.
- For Car Navigation, Marine Navigation, Fleet Management, AVL and Location-Based Services, Auto Pilot, Personal Navigation or touring devices, Tracking devices/systems and Mapping devices application.



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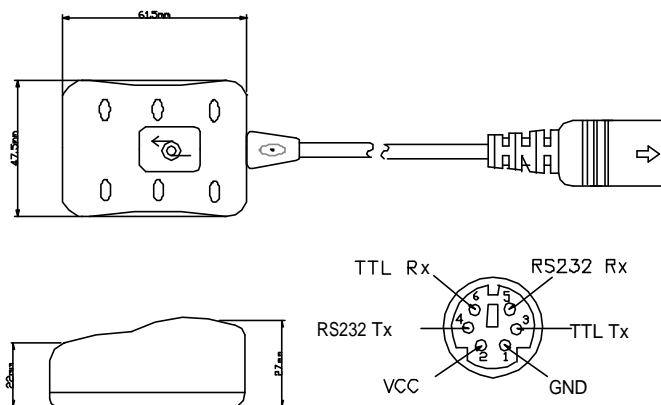
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3. APPLICATIONS

Works with electronic map software for:

- Car navigation and tracking
- Vehicle monitoring
- Outdoor activities positioning
- Marine guidance

4. SPECIFICATIONS



- **Tracks up to 12 satellites.**
- **Receiver: L1, C/A code**
- **Snap Start: <3 sec(at < 25 minutes off period)**
- **Update rate: 1 HZ.**
- **Acquisition time**
 - **Reacquisition 0.1sec.averaged**
 - **Hot start 8 sec., averaged**
 - **Warm start 38 sec., averaged**
 - **Cold start 45 sec., averaged**
- **Position accuracy:**
 - **Non DGPS (Differential GPS)**
 - **Position 5-25 m CEP without SA**
 - **Velocity 0.05 m/sec, typical**
 - **Time 1 usec sync GPS Time**
 - **DGPS (Differential GPS)**



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- **Position** 1 to 5 m, typical
- **Velocity** 0.1 m/sec, without SA
- **EGNOS/WAAS/Beacon**
 - < 2.2 m, horizontal 95% of time
 - < 5 m, vertical 95% of time
- **Antenna Type: Built in Patch Antenna**
- **Dynamic Conditions:**
 - Altitude** 18,000 meters (60,000 feet)max
 - Velocity** 515 meters / second (700 knots) max
 - Acceleration** 4 G, max
 - Jerk** 20 meters/second, max
- **Minimum signal tracked: -175dBW**
- **Dimension: 66 × 46 X 27.5 mm**
- **Weight: <100g**
- **LED function:**
 - Power On/Off and Navigation**
 - Update Indication**
- **Operation Temperature:**
 - 40 ℃ to +80 ℃
- **Store Temperature:**
 - 45 ℃ to +100 ℃
- **Operation Humidity:**
 - 5% to 95% No condensing.
- **Power consumption**
 - <85mA at 4.5- 5.5V input
- **Protocol and interface:**
 - ◆ **NMEA output protocol: V.2.2**
 - Baud rate: 4800 bps**
 - Data bit: 8**
 - Parity: N**
 - Stop bit: 1**
 - Output format:**
 - Standard: GGA, GSA,GSV, RMC.**
 - Optional: GLL, VTG, SiRF binary**
 - ◆ **Interface:**
 - RS232 + CMOS TTL Level, or**
 - RS-232 + DGPS**



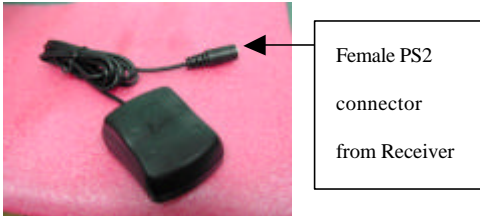
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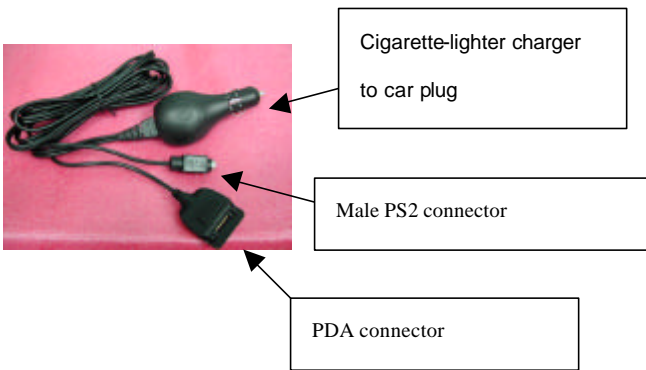
5. INSTALLATION & OPERATION

For PDA



Female PS2
connector
from Receiver

Female PS2 connector from GMS-N08-D



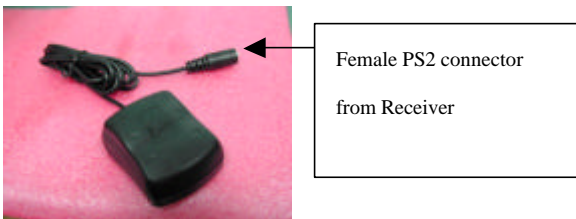
Cigarette-lighter charger
to car plug

Male PS2 connector

PDA connector

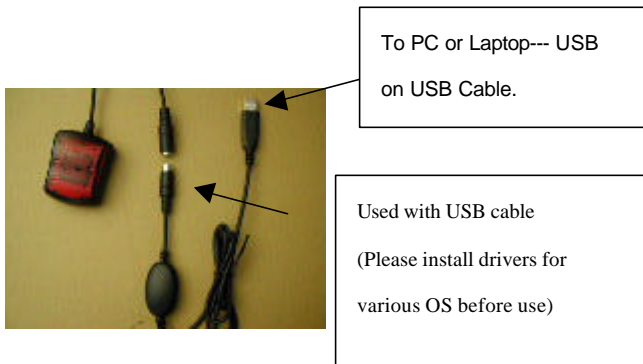
1. Plug the PS2 (female) connector of the GMS-N08-D into the PS2 (male) connector of the cigarette charger cable, have the PDA connector to your pocket PC or Palm.
2. With the car's engine running, plug the cigarette-lighter adaptor into the cigarette lighter of your car.
3. Turn on the pocket PC and execute your GPS enabled map software.
4. Follow the instructions for your map software for further navigation guide.

For PC/Laptop



Female PS2 connector
from Receiver

Female PS2 connector from GMS-N08-D



To PC or Laptop--- USB
on USB Cable.

Used with USB cable
(Please install drivers for
various OS before use)

1. Plug the USB connector into your PC or Laptop with power turned on.
2. The computer will find an unknown USB device.
3. Go to control panel-> system->hardware->device manager, then find the unknown USB device.
4. Update the driver for the USB device by the driver included in the Tool CD under the USB driver, and pick up the proper driver for your OS.
5. After the installation of the driver, plug the PS2 connector (male) to PS2 connector of GMS-N08-D G-mouse.
6. Execute your GPS enabled map software.
7. Follow the instructions for your map software for further navigation guide.



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6. TROUBLE SHOOTING

To get an accurate initial position quickly, please find an open area so that the G Mouse can be seen as much sky as possible.

The GMS-N08-D has no power switch or reset button. To reset, simply disconnect the connector and plug it back in ten (10) seconds later.

Normally, the GMS-N08-D will find your position within 60 seconds. In case a position is not fixed in 90 seconds, reset the GMS-N08-D. If the situation continues, please drive to an open area or move the GMS-N08-D to the outside of your vehicle and restart/reset the G Mouse.

7. SPECIAL NOTICE

FOR YOUR SAFETY, DO NOT OPERATE THE G Mouse OR POCKET PC WHILE YOU ARE DRIVING!

PLEASE PARK YOUR VEHICLE IN A SAFE PLACE FIRST WHENEVER YOU NEED TO OPERATE THE POCKET PC OR the G Mouse.

8. WARRANTY

The GMS-N08-D is warranted by Zippy to the original purchaser to be free from defects in material and workmanship under normal use for a period of one year from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or a similar model) at Zippy's option without charge for parts or labor. This warranty will not apply if the product has been misused, abused, or altered. To obtain warranty service you must take or send the product, postage paid, with a copy of your sales receipt or other proof of purchase and the date of purchase to authorized dealer of the product. Pilot.

9. Compliances of CE / FCC

FCC CE TESTED, MAXIMUM RATING 3.3V, 85mA



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10. OPTIONAL ACCESSORIES

	Model no.	Description
PDA Connector input: 12-24V Output: 5V Max. 2 A	2GM-0PM-L001	For SONY T-XX
	2GM-0PM-K001	For Palm M500
	2GM-0PM-K002	For Palm VX
	2GM-0PM-A001	For Casio E-115
	2GM-0PM-A002	For Casio E125/EM500
	2GM-0PM-A003	For Casio E200
	2GM-0PM-C001	For IPAQ 36/37XX
	2GM-0PM-D001	For IPAQ 38/39XX
	2GM-0PM-M001	For Toshiba E-570
	2GM-0PM-M002	For Toshiba E-740
	2GM-0PM-M002	For Toshiba E-330
	2GM-0PM-J001	For Fujitsu-Siemens LOOX
	2GM-0PM-P001	For NEC/MIO 528/338
	2GM-0PM-P001	For XDA/T-Mobile MDA
	2GM-0PM-H001	For Asus A600
2GM-0PM-I001	For Dell Axim X5	
PDA Holder	2GM-0AB-A001	Suck type used on windshield (short)
	2GM-0AB-A001	Suck type used on windshield (long)
Base cable	2GM-0MW-A001	RS232+PS2 (to GPS)+USB (w/o IC) only for PDA
	2GM-0TW-B001	RS232+PS2 (to GPS)+USB (w/ IC) for Laptop & PDA
Car Cigarette	2GM-0PW-Q001	13V, MAX. 2A, 3W

Specifications are preliminary and subjected to change without notice

11. ORDERING INFORMATION

Model No.	Description
GMS-N08-D	G-Mouse with PS2 female connector
GMS-N01-D	G-Mouse with USB connector for PC/Laptop



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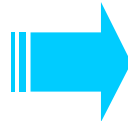
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12. Different kinds of Connector for the GPS Mouse:

The GPS Mouse includes an antenna in a unique style waterproof enclosure. Zippy “**standard**” connector is PS2 female connector to be connected one of the accessories linking to your notebook PC / PDA or other devices. The option connector types are listed and described below:



GPS Mouse



RS232 interface with PS2 or
USB or Cigarette connector



USB interface



PS2 female interface

Reference Information:



RS232 interface
(USB powered)



USB interface



RS232 interface
(PS2 powered)

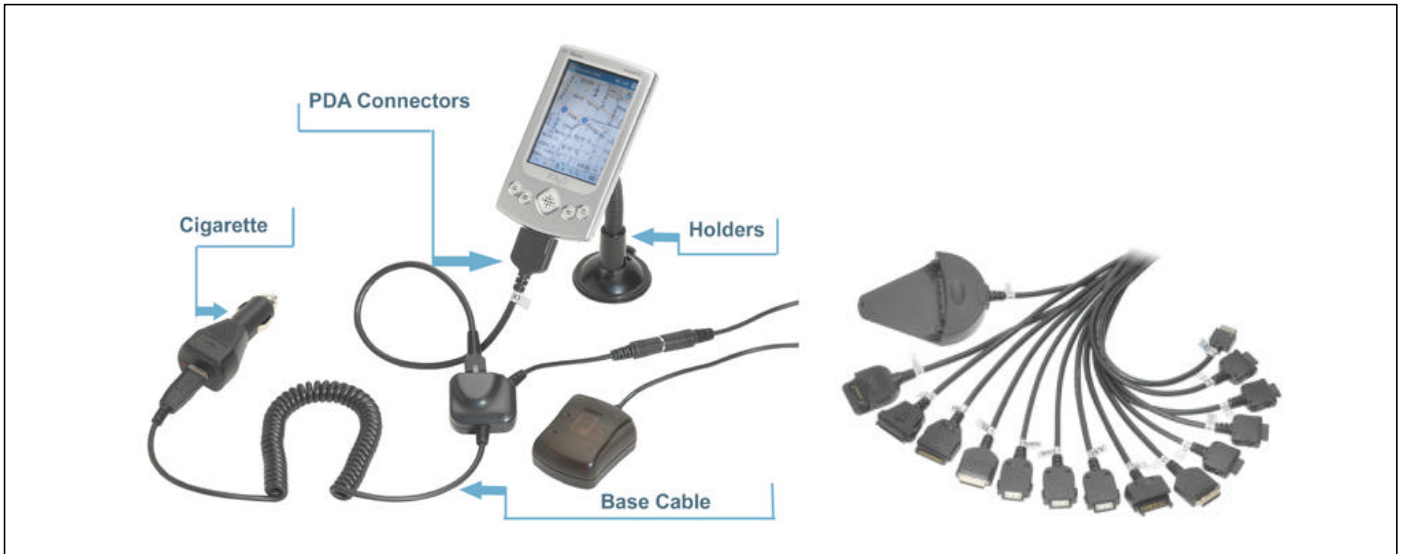


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Complete Accessories for the PDA



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