

## Navman GPS3260/GPS3261 Smart GPS Sensor series

### 1/ Overview

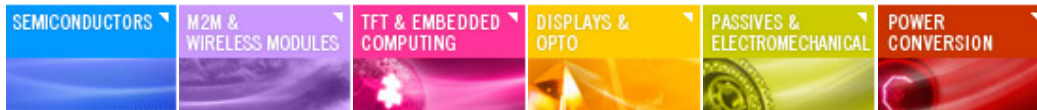
Navman's Smart GPS Sensor is a tethered, fully integrated GPS antenna and high performance receiver that easily brings location capabilities to almost any platform. The GPS3260 series includes a 20-channel ultra-high sensitivity receiver based on SiRFstar III technology, providing the fastest TTFF (Time to First Fix) possible in challenging environments such as urban canyons or dense foliage, and in all weather conditions.

The Smart GPS Sensor is waterproof (IPX7 submersible), operational from -30 deg C to +60 deg C, and includes a LED that indicates GPS fix. The fixed cable with either RJ11 or USB connector provides ideal flexibility with installation to a host of applications requiring positioning.

Featuring the same core firmware as Navman's venerable Jupiter 30 series of products, and with built in user selectable target application modes, the GPS3260 Series offers the easiest products to integrate available from Navman yet.

Supporting advanced power management modes, SBAS and a variety of user selectable Datums the GPS3260 Series provides the perfect plug and play GPS solution for automotive, marine, scientific, industrial, commercial, leisure and battery powered applications requiring ultimate navigation.

- ultra-high sensitivity, 20-channel smart sensor
- faster times to fix under all conditions
- user selectable SBAS (WAAS, EGNOS, MSAS)
- SiRFLoc and SiRFInstantFix multi-mode GPS support
- built-in micro battery to reserve system data for rapid satellite acquisition
- LED indicator for GPS fix
- 3m cable with RJ11 or 2m cable with USB connector
- waterproof to IPX7
- environmentally friendly RoHS compliance



## 2/ Specifications

### Receiver architecture

20-channel, 200000 effective correlators, L1 1575.42 MHz  
C/A code (1.023 MHz chip rate)  
code-plus-carrier tracking (carrier-aided tracking)  
velocity, up to 500m/s  
acceleration, up to 5G

### Tracking capability

20 satellites simultaneously

### Accuracy

horizontal accuracy: <8m 2dRMS

### Acquisition performance

hot start: <1 s (typ)  
warm start: 32 s (typ)  
cold start: 38 s (typ)

### Datums

supports selection of datums, default WGS-84

### Environmental

waterproof: IPX7  
operating temperature: -30°C to +60°C  
humidity: up to 95% non-condensing  
altitude: -305 m to 18 000 m

### Compliance

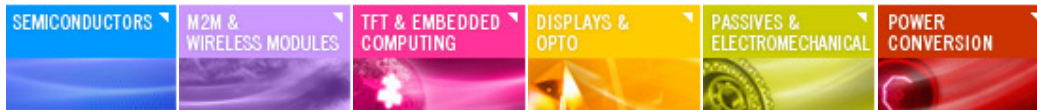
EMC: FCC - Part 15, Class B  
EN: 55022, Class B

### Physical

dimensions: 49.0 mm x 41.0 mm x 14.1 mm  
cable length: 3 m (with RJ11 connector), 2 m (with USB connector)  
weight: 96 g max

### On-board filtering

L1 -75 MHz, -30 dB  
L1 +50 MHz, -20 dB



### Data interfaces

- RS232 output on RJ11 connector
- selectable baud rates
- selected NMEA-0183/SiRF binary messages: latitude, longitude, elevation, velocity, heading, time, satellite tracking status, command/control messages
- SiRF binary interface: raw data

### Electrical

input power range: 4.75 to 5.25 VDC

### Connectors

USB or RJ11(RS232)

### Drivers and software

USB driver

Navman GPS Smart Antenna evaluation software

## 3/ Part Numbers

### Part Number Description

AA003260-G GPS3260 (RJ11 connector)

AA003261-G GPS3261 (USB connector)