



## GPS3260/GPS3261

*Smart GPS Sensor series:  
fully integrated 20-channel GPS antenna and receiver*

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°C to +85°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.

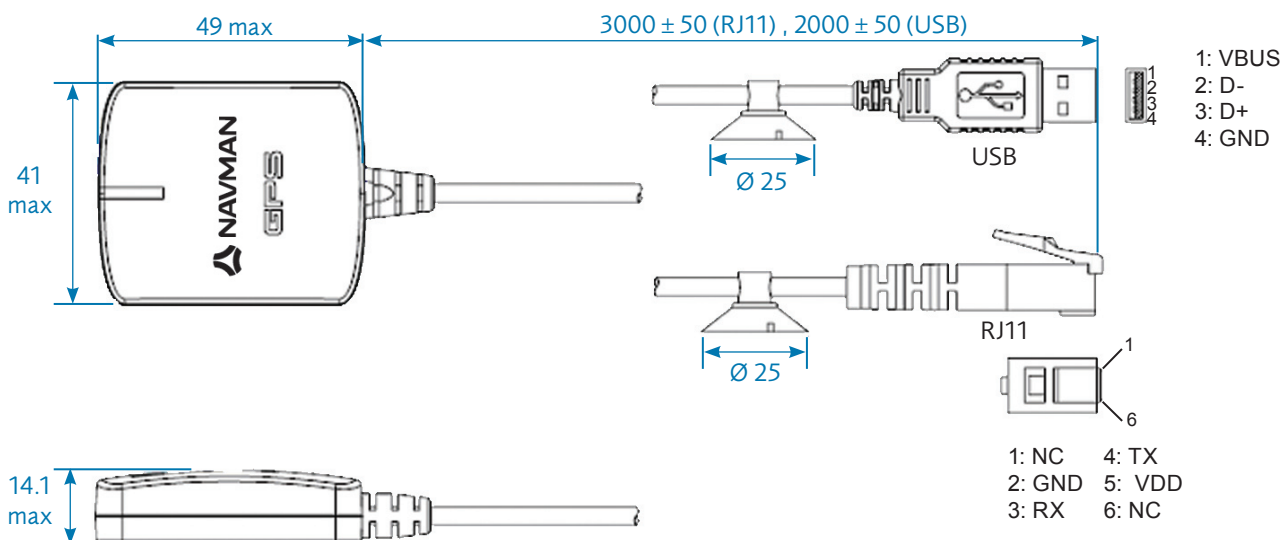
Featuring the same core firmware as Navman's venerable Jupiter 30 series of products, and with built in user selectable target application modes, the GPS3260 Series offers the easiest products to integrate available from Navman yet.

Supporting SiRFInstantFix, 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.

### Key Features

- ➔ 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
- ➔ 3 m cable with RJ11 or 2 m cable with USB connector
- ➔ waterproof to IPX7
- ➔ environmentally friendly RoHS compliance

### Dimensions (mm)



## Product specifications

### Receiver architecture

- 20-channel, 200 000 effective correlators, L1 1575.42 MHz
- C/A code (1.023 MHz chip rate)
- code-plus-carrier tracking (carrier-aided tracking)
- velocity, up to 500 m/s
- acceleration, up to 5 G

### Tracking capability

- 20 satellites simultaneously

### Accuracy

- horizontal accuracy: <8 m 2dRMS

### Acquisition performance

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

### Datums

- supports selection of datums, default: WGS-84

### Environmental

- waterproof to IPX7
- operating temperature: -30°C to +85°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 x 41.0 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

Mode	Power consumption
	@ 5 V
average sustained power USB	350 mW
average sustained power RJ11	315 mW

### Connectors

- USB or RJ11 (RS232)

### Drivers and Software

- USB driver

Available for download from:

[www.navman.com/ProductBriefs&DataSheets](http://www.navman.com/ProductBriefs&DataSheets)

- Navman GPS Smart Antenna evaluation software

Available for download\* from:

[www.navman.com/Support-Docs&SW](http://www.navman.com/Support-Docs&SW)

\*Note: free auto-registration must first be completed from the Commercial GPS Solutions section of the Navman website.

### Ordering information

- AA003260-G GPS3260 (RJ11 connector)
- AA003261-G GPS3261 (USB connector)

Contact your local distributor or Navman OEM:

[www.navman.com](http://www.navman.com) (Commercial GPS Solutions)