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## PMB-648 GPS SiRF Internal Antenna

The PMB-648 GPS module provides high performance with a SiRFstarIII chipset and integrated patch antenna. See our [GPS Comparison Chart](#) to evaluate this model side-by-side with the very similar **PMB-688**.

The PMB-648 GPS features 20 parallel satellite-tracking channels for fast acquisition of NMEA0183 v2.2 data for robotics navigation, telemetry, or experimentation. There is a built-in patch antenna; rechargeable battery for memory and RTC backup; cable for power, TTL and RS-232 connections.

### Features:

- High sensitivity
- SiRFstarIII chipset
- 20 parallel satellite-tracking channels for fast acquisition and reacquisition
- Built-in rechargeable battery for memory and RTC backup
- Supports NMEA0183 V2.2 data protocol
- Includes cable for power, TTL and RS-232 connections

### Key Specifications:

- Power requirements: 3.3V - 5V DC @ 65mA
- Communications: TTL or RS-232 asynchronous serial @ 4800 bps
- Dimensions: 1.25 x 1.25 x .35 in (32 x 32 x 9 mm)
- Operating temp range: -4 to +158 °F (-20 to +70 °C)

### Downloads & Resources:

[Product Specification \(.pdf\)](#)[Easy GPS v1.0 \[.bsp\] \(.zip\)](#)[GPS Comparison Page](#)[Example KickStart Circuits & Code \(offsite\)](#)**RoHS Compliant**

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