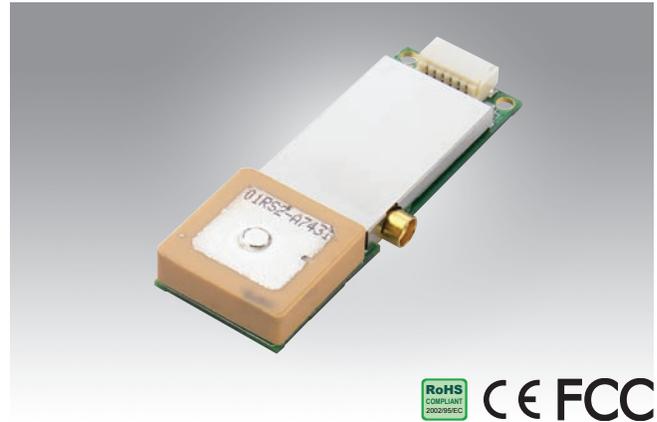


GPS-100

Embedded GPS Module with Patch Antenna

GPS-101

Low Power and Small Form Factor GPS Module with Patch Antenna



Features

- SiRF star III 20-channel chipset
- -159 dBm high GPS sensitivity
- 6-pin wire to board connector
- Backup battery installed
- 35 x 30 x 6.5 mm (L x W x H)
- Patch Antenna 25 x 25 x 2 mm
- Operating Temperature -40 ~ + 85° C

Features

- SiRF star III single chip
- Patch antenna with external antenna
- 20 satellite tracking channels
- NMEA-0183 compliant protocol
- 7-pin box header
- 42.5 x 14 x 3.5 mm (L x W x H)
- Operating Temperature -25 ~ + 85° C

Introduction

GPS-100 is a smart antenna GPS module (patch antenna embedded, and external antenna supported). It is powered by SiRF Star III technology with a proprietary navigation algorithm that provides extra stable navigation data.

Introduction

This small form factor and parallel design is a great choice for embedding in a limited-space system. The excellent sensitivity of GPS-101 delivers outstanding performance even in urban environments or heavy foliage.

Specifications

Receiver Type	GPS L1 frequency, 1575.42, C/A code
Time-To-First-Fix	Cold Start 42 s
	Warm Start 35 s
	Hot Start 1 s
Sensitivity	Acquisition -130 dBm
Velocity Accuracy	0.1 m/s
Heading Accuracy	0.5 degrees
Voltage Type	3.3 +/- 5%
Dynamics	< 4 g
Operational Limits	Velocity 514 m/s
Weight	< 16.5 g

Specifications

Receiver Type	GPS L1 frequency, 1575.42, C/A code
Time-To-First-Fix	Cold Start 35 s
	Warm Start 35 s
	Hot Start 1 s
Sensitivity	Acquisition -130 dBm
Reacquisition	0.1 sec typical
Position Accuracy	10 meters at 2D RMS
Voltage Type	DC 3.3 +/- 5%
Dynamics	< 4 g
Operational Limits	Velocity 514 m/s
Weight	8.3 g

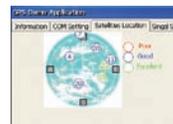
Software Specifications

- Detects GPS Signal Strength
- Detects Satellites
- Parses NMEA Protocols



Software Specifications

- Detects GPS Signal Strength
- Detects Satellites
- Parses NMEA Protocols



Packing List

Description	Quantity
Embedded GPS Module with Patch Antenna	x 1
CD-ROM (User's Manual; Utility)	x 1

Packing List

Description	Quantity
Embedded GPS module with patch antenna	x 1
CD-ROM (User's Manual; Utility)	x 1

Ordering Information

Part Number	Specifications
968EMG0006	Embedded GPS Module

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Part Number	Specifications
968EMG0007	EmbSiRF GPS