SureCross® GPS Module

GPS

Monitor:

- Latitude
- Longitude
- Altitude
- GPS date and time
- Signal quality
- Number of satellites being tracked

Applications:

- Asset management
- Pivot irrigation/precision agriculture
- Mobile equipment
- Geofencing

Self-contained GPS Module for industrial use

Low power consumption, ability to withstand harsh environments, flexible power supply requirements and Modbus RTU communications makes this module ideal for the industrial market.

Accurate

- Positional error of less than 2.5 meters

Self Contained for Harsh Environments

- IP69K
- - 40 to +85 ˚C (-40 to +185 ˚F)

Flexible Power Requirements

- 5 to 30 V dc
- Power consumption as low as 100 mW

Standard Communication

- Modbus RTU
- RS485

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Specifications

GPS Module

Models: GPS50M

Power Requirements	5 to 30 V dc	**GPS Features**	• SiRF Star IV GPS chip • Satellite-based augmentation systems: WAAS, EGNOS, MSAS, GAGAN • High sensitivity navigation engine (PVT) tracks as low as –163 dBm • Update Rate: 1 Hz
Current	Maximum: < 0.5 W Power Save Mode ON Typ. Average: 4 mA at 24 V dc Power Save Mode OFF Tye. Average: 10 mA at 24 V dc	**Communication**	• Interface: RS-485 serial • Baud rates: 9.6k, 19.2k (default), or 38.4k • Data format: 8 data bits, no parity (default), 1 stop bit (even or odd parity available) • Do not use termination resistor • Protocol: Modbus RTU
Indicators	Green flashing: Power ON Amber flashing: Modbus communication active	**Shock and Vibration**	• IEC 68-2-6 and IEC 68-2-27 • Shock: 30g, 11 millisecond half wave, 18 shocks • Vibration: 0.5 mm p-p, 10 to 60 Hz
Operating Temperature	–40 to +85 ˚C (–40 to +185 ˚F)	**Accuracy**	• Positional error of less than 2.5 m (8') with augmentation • Positional error of less than 10 m (33') with no augmentation

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