

CF GPS powered by SiRF star III chipset with foldable design

■ Introduction



- 20-channel SiRF star III Chipset
- High Sensitivity: -159dBm
- Dimension 56x53x22mm
- Foldable Patent design



GP-02S

■ Applications

- Land Navigation
- Telematics
- Fleet Management
- Asset Tracking
- Timing Reference

■ Feature

◆ GP-02S

- SiRF starIII Chipset 20 Channels all in view tracking
- High Sensitivity: -159dBm
- Reacquisition Time: 0.1 second
- Support Standard NMEA-0183 at 4800 bps baud rate
- On-board rechargeable battery sustained real-time clock and memory for fast satellite acquisition during power-up
- Compact Flash interface

■ Specifications

General	L1 1575.42MHz, C/A code, 20-channel all in view tracking
Sensitivity	-159 dBm (typical)
Update Rate	1 Hz
Accuracy	Position : <15m(95%) without S/A Velocity : 0.1 m/sec without S/A Time : ± 100ns synchronized to GPS time
Acquisition	Cold start : 42 sec average Warm start : 38 sec average Hot start : 1 sec average

Dynamics	Altitude : 18,000m Max Velocity : 83m/s Acceleration : 4g Max
Reacquisition Time	0.1 second
Datum	WGS-84
Protocol	NMEA-0183 V2.2 , Baud rate: 4800 , 8-None-1
NMEA Message	Default : GGA, GSA, GSV, RMC
Primary Power	VCC1 : 3.3VDC \pm 0.1Vp-p ripple VCC2 : 5VDC \pm 0.5Vp-p ripple
DC Current	85 mA
Operation Temperature	-10°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	5% to 90% non-condensing
Antenna	Built-in Patch Antenna
Interface connector	Compact Flash interface
Dimension/ Weight	71 mm x 47.5 mm x 25.4 mm / 67.5g