

## 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

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### ■ Applications

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

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### ■ 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

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### ■ Specifications

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

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