

CF GPS receiver GR-271



■ Features:

- 20 parallel satellite-tracking channels for fast acquisition and reacquisition
- Built-in hardware tracking loop processor WAAS/EGNOS demodulator
- Low power consumption with starIII chipset
- Built-in rechargeable battery for memory and RTC backup and for fast time to first fix(TTFF)
- Support NMEA0183 v2.2 data protocol and SiRF binary code
- Enhanced algorithms-SnapLock and SnapStart provide superior navigation performance in urban, canyon and foliage environments
- Support CF card type I connector suitable PDA, Hand Held PC or PC device

Specifications

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|--|---------------------------|------------------|-----------|-----------------|------------|------------------|------------|------------------|----------|-----------------------|----------|-----------------------|------|---------------------------|---------------------|-------------|-----------------|-------------|----------|---------------|--|--------------------|----------|-------------------|--|-----------------|--------------|----------|------|---------------------|--|------------|----------|-----------|---|---------|---|-----------|---|---------|-------------------|------------|------------------|--|-----|---------|----------------------|--|--------|------|---------------------------|------|-------------------|--|-----|--|----------------|
| <ul style="list-style-type: none"> ● Tracks up to 20 satellites ● Receiver: L1, C/A code ● Max update rate: 1 HZ ● Acquisition time: <table border="0" style="margin-left: 20px;"> <tr><td>Reacquisition</td><td>0.1sec. averaged</td></tr> <tr><td>Hot start</td><td>8 sec. averaged</td></tr> <tr><td>Warm start</td><td>38 sec. averaged</td></tr> <tr><td>Cold start</td><td>42 sec. averaged</td></tr> </table> ● Position accuracy: <ul style="list-style-type: none"> a. Non DGPS(Differential GPS) <table border="0" style="margin-left: 20px;"> <tr><td>Position</td><td>5-25 m CEP without SA</td></tr> <tr><td>Velocity</td><td>0.1 m/sec. without SA</td></tr> <tr><td>Time</td><td>1 μ sec sync GPS Time</td></tr> </table> ◇ EGNOS/WAAS <ul style="list-style-type: none"> Position : <table border="0" style="margin-left: 20px;"> <tr><td>< 2.2 m, horizontal</td><td>95% of time</td></tr> <tr><td>< 5 m, vertical</td><td>95% of time</td></tr> </table> ● Dynamic conditions: <table border="0" style="margin-left: 20px;"> <tr><td>Altitude</td><td>18,000 meters</td></tr> <tr><td></td><td>(60,000 feet) max</td></tr> <tr><td>Velocity</td><td>515 meters / sec.</td></tr> <tr><td></td><td>(700 knots) max</td></tr> <tr><td>Acceleration</td><td>4 G, max</td></tr> <tr><td>Jerk</td><td>20 meters/sec., max</td></tr> </table> ● Antenna type: Built in Patch Antenna ● Minimum signal tracked: -159dBm ● Dimension: 93.5x 43 x 11 mm ● Weight : < 34g. | Reacquisition | 0.1sec. averaged | Hot start | 8 sec. averaged | Warm start | 38 sec. averaged | Cold start | 42 sec. averaged | Position | 5-25 m CEP without SA | Velocity | 0.1 m/sec. without SA | Time | 1 μ sec sync GPS Time | < 2.2 m, horizontal | 95% of time | < 5 m, vertical | 95% of time | Altitude | 18,000 meters | | (60,000 feet) max | Velocity | 515 meters / sec. | | (700 knots) max | Acceleration | 4 G, max | Jerk | 20 meters/sec., max | <ul style="list-style-type: none"> ● Waterproof : IPX5 ● LED function: <ul style="list-style-type: none"> Power On/Off and Navigation Update Indication. ● Operating temperature: <ul style="list-style-type: none"> -10 °C to + 70 °C ● Storage temperature: <ul style="list-style-type: none"> -45 °C to + 85 °C ● Operating humidity: <ul style="list-style-type: none"> 5% to 95% No condensing. ● Power consumption <ul style="list-style-type: none"> < 80mA at 3.3V+/-10% input ● Protocol and interface: <ul style="list-style-type: none"> ◇ NMEA output protocol: V.2.2 Standard: <table border="0" style="margin-left: 20px;"> <tr><td>Baud rate:</td><td>4800 bps</td></tr> <tr><td>Data bit:</td><td>8</td></tr> <tr><td>Parity:</td><td>N</td></tr> <tr><td>Stop bit:</td><td>1</td></tr> <tr><td>Format:</td><td>GGA,GSA,GSV, RMC.</td></tr> </table> Optional: <table border="0" style="margin-left: 20px;"> <tr><td>Baud rate:</td><td>9600,19200,38400</td></tr> <tr><td></td><td>bps</td></tr> <tr><td>Format:</td><td>GLL,VTG, ZDA,or SiRF</td></tr> <tr><td></td><td>binary</td></tr> </table> Interface: <table border="0" style="margin-left: 20px;"> <tr><td>H/W:</td><td>Compact Flash - CF type I</td></tr> <tr><td>S/W:</td><td>Emulated COM Port</td></tr> <tr><td></td><td>1-8</td></tr> <tr><td></td><td>(Auto Select)</td></tr> </table> | Baud rate: | 4800 bps | Data bit: | 8 | Parity: | N | Stop bit: | 1 | Format: | GGA,GSA,GSV, RMC. | Baud rate: | 9600,19200,38400 | | bps | Format: | GLL,VTG, ZDA,or SiRF | | binary | H/W: | Compact Flash - CF type I | S/W: | Emulated COM Port | | 1-8 | | (Auto Select) |
| Reacquisition | 0.1sec. averaged | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hot start | 8 sec. averaged | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Warm start | 38 sec. averaged | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cold start | 42 sec. averaged | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position | 5-25 m CEP without SA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Velocity | 0.1 m/sec. without SA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time | 1 μ sec sync GPS Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| < 2.2 m, horizontal | 95% of time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| < 5 m, vertical | 95% of time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Altitude | 18,000 meters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (60,000 feet) max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Velocity | 515 meters / sec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (700 knots) max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acceleration | 4 G, max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jerk | 20 meters/sec., max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baud rate: | 4800 bps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Data bit: | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parity: | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stop bit: | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format: | GGA,GSA,GSV, RMC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baud rate: | 9600,19200,38400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | bps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format: | GLL,VTG, ZDA,or SiRF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | binary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H/W: | Compact Flash - CF type I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S/W: | Emulated COM Port | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (Auto Select) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* The specifications are subject to be changed without notice.

* The measurement functions of this GPS CF card are not intended for use in tracking measurements that requires professional or industrial precision. Values produced by this GPS CF card should be considered as reasonable accurate representations only.

