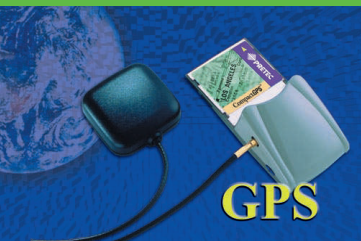


CompactGPS™ Card



Pretec CompactGPS™ is the world's smallest GPS card in CompactFlash package. With the mapping system bundled with your PPC, HPC, or notebook computer, it can track all satellites in views and provide accurate positioning data to your wide range of applications including transportation, marine, aviation, and industrial markets.

The CompactGPS™ is compatible with CompactFlash host socket services. It is designed to easily integrate with a wide range of navigation, location and mapping software applications. Featuring all-in-view tracking capability, this card provides robust performance in applications that require high vehicle dynamics and high signal blockage operations. This special design GPS card is suitable for integration and bundled in a variety of OEM products.

The CompactGPS™ with 12-channel architecture can provide rapid Time to First Fix (TTFF) under all startup conditions. To minimize TTFF, which is followed by a power down, the CompactGPS™ with built-in battery can maintain power to the Static Random Access Memory (SRAM) and Real-Time Clock (RTC) for periods following the loss of primary power. This will assure the shortest possible TTFF and prolong the battery life of your devices.



CompactGPS™ Card

Features

- CFA compliant
- OEM product development is fully supported
- Twelve parallel satellite tracking channels for fast acquisition and reacquisition
- Support for true NMEA-0183 data protocol
- Enhanced algorithms provide superior navigation performance in urban canyon and foliage environments.
- Maximum navigation accuracy achievable with the Standard Positioning Service (SPS)
- Enhanced TTFF upon power-up when in a keep-alive power condition before start-up.
- Meets rigid shock and vibration requirements.
- Automatic altitude hold mode from three-dimensional to two-dimensional navigation.
- Automatic cold start acquisition process.
- Built-in Antenna
- Power saving mode with trickle power
- LED indication for navigation update
- Data retention with Li-Ion battery inside
- Reversed straight MMCX subminiature, snap-on, coaxial RF jack receptacle

Specifications

- CompactFlash™ size card :
 - 36.4mm(L)x42.8mm(W)x3.3mm(H) (main body)
- Product Application :
 - Handheld PC
 - Pocket PC
 - Automotive applications
 - Marine navigation applications
 - Aviation applications
 - Timing applications
- Radio Frequency Signal Environment :
 - RF Input: 1575.42 MHz (L1 band) at a level between -130 dBW and -164dBW to an reversed MMCX high-retention female connector.
- Reacquisition :
 - Hot Start : 8 sec, average
 - Warm Start : 45 sec, average
 - Cold Start : 60 sec, average
- Serial Data Output Protocol :
 - SirF binary serial I/O messages or NMEA-0183 serial I/O messages
- Power Consumption :
 - Operation Current : 160mA max
Typical: 80mA
Trickle: 35 mA
Power : 0.53W+/-10%
- Environment Conditions :
 - Operating temperature : 0°C to 50°C
 - Humidity : 95%
 - Altitude : -1000 feet to 60,000 feet
 - Vehicle Dynamic : 500m/sec(Max.)



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