



ORG4472

The world smallest GPS Module 7x7x1.4 mm Based On SIRF IV



About the ORG4472 - SIRF IV GPS Module

The ORG4472 module is industry's smallest, autonomous, fully featured GPS engine. The ORG4472 module is miniature multi-channel receiver that continuously tracks all satellites in view and provides accurate positioning data in industry's standard NMEA format. Internal ARM CPU core and sophisticated firmware keep GPS payload off the host and allow integration in low resources embedded solutions. Featuring OriginGPS proprietary Noise-Free Zone System (NFZ™) technology the ORG4472 offers the ultimate in high sensitivity GPS performance in small size. The ORG4472 module is complete SiP (System-in-Package) featuring advanced miniature packaging technology and an ultra small footprint designed to commit unique integration features for high volume, low power and cost sensitive applications. The ORG4472 module incorporates new SiRFstarIV™ GPS processor. The revolutionary SiRFstarIV™ architecture is optimized for how people really use location-aware products: often indoors with periods of unobstructed sky view when moving from place to place. This new architecture can detect changes in context, temperature, and satellite signals to achieve a state of near continuous availability by maintaining and opportunistically updating its internal fine time, frequency, and ephemeris data while consuming mere microwatts of battery power.

OriginGPS Company

OriginGPS is a world leading developer, manufacturer and provider of advanced small sized GPS antenna modules. OriginGPS modules with embedded antenna introduce unparalleled sensitivity and noise immunity by incorporating Noise Free Zone system (NFZ™) proprietary technology for faster position fix and navigation stability even under challenging GPS signal conditions. OriginGPS, founded in 2006, is specializing in rapid development of proprietary technologies that miniaturizes RF antenna modules, thereby addressing the market need for smaller wireless connectivity solutions.

GPS Antenna Modules

Smallest • Integrated • High Performance

ORG4472

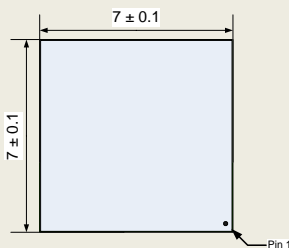


Features

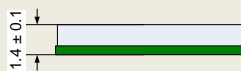
- Stand alone operation
- Integrated LNA, SAW Filter, TCXO and RTC
- Noise Free Zone System (NFZ™) technology
- SiRFstarIV™ GSD4e ROM processor
- L1 frequency, C/A code
- 48 track verification channels
- Navigation sensitivity: -160dBm
- Tracking sensitivity: -163dBm for indoor fixes
- Fast TTFF: <35s (typical) under Cold Start conditions
- Multipath mitigation
- Indoor tracking
- Active jammer remover: tracks up to 8 CW interferers and removes jammers up to 80dB-Hz
- SBAS (WAAS or EGNOS) support
- Assisted GPS (A-GPS) support
- Extended Ephemeris for very fast TTFFs supported through SiRFInstantFix™
- Automatic and user programmable power saving scenarios
- Low power consumption: 58mW during continuous tracking
- ARM7 baseband CPU
- Smart sensor I2C master interface
- Selectable UART, SPI or I2C host interface
- Programmable UART protocol and messages rate
- Selectable NMEA or OSP (SiRF Binary) communication standards
- Single voltage supply: 1.8V
- DC blocked 50Ω antenna input
- Ultra small footprint: 7mm x 7mm
- Surface Mount Device (SMD)
- Optimized for automatic assembly and reflow equipment
- Industrial operating temperature range: - 40 to 85°C
- Pb-Free RoHS compliant



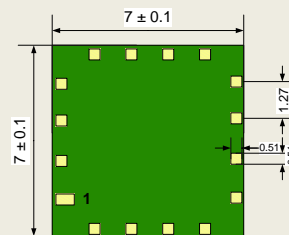
TOP VIEW



SIDE VIEW



BOTTOM VIEW



All dimensions are in millimeters

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