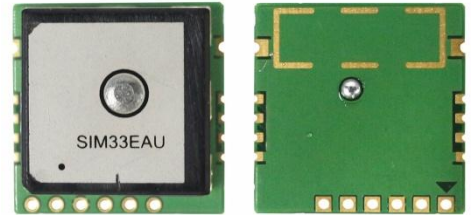




GNSS Antenna Module



SIM33EAU

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SIMCom presents a high performance GPS module accompany with GNSS antenna-SIM33EAU. This is a standalone GNSS module include an embedded patch antenna on it. Designed with MTK's high sensitivity navigation engine, it allows you to achieves the industry's highest levels of sensitivity, accuracy, and Time-to-First-Fix (TTFF) with lowest power consumption. And with embedded antenna in SMT type, it is very easy to embed into customer's application.

Smart Machine Smart Decision

Mechanical data

- Dimensions: 22*22*7.5mm
- Weight: 8.5g

Features

- Support GPS/GLONASS/Galileo/QZSS
- Support EASY™ self-generated orbit prediction
- Support EPO™ orbit prediction
- Support AGPS
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
- Support Jamming Removing
- Low-noise amplifier has been integrated

Interfaces

- Serial interfaces UART
- Digital I/O TIMEMARK (PPS)
 3D-FIX
- Protocols NMEA
 PMTK

Support product

- SIM68 EVB KIT with USB V2.0 full speed interface

Performance data

- Receiver type 33 tracking/99 acquisition-channel GNSS receiver
- Max. update rate 10Hz
- Sensitivity¹
 - Tracking: -165 dBm
 - Cold starts: -146 dBm
 - Hot starts: -160 dBm
- Time-To-First-Fix²
 - Cold starts: 31 s (typical)
 - Warm starts: 26s
 - Hot starts: <1s
 - EPO Assist: 13s (CTTFF)
- Accuracy
 - Automatic Position³: 2.5m CEP
 - Speed⁴: 0.1m/s
- Operation temperature: -40℃~+85℃

Electrical data

- Power supply 2.8~4.3V
- Backup power 2.3V~4.3V
- Power consumption²
 - Acquisition 38mA
 - Tracking 32mA
 - Standby 520uA
 - Backup 14uA

1.Demonstrated with a good active antenna

2.All SV @ -130 dBm

3.50% 24 hr static, -130dBm

4.50% @ 30m/s

More about SIMCom SIM33EAU Please contact:

Tel: 86-21-32523300

Fax: 86-21-32523301

Email: simcom@sim.com

Website: www.sim.com/wm