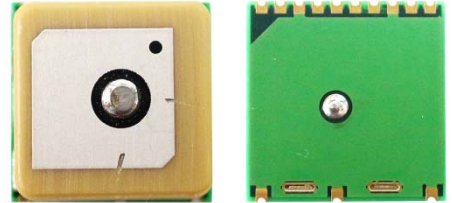




GPS Antenna Module



SIM39EA

SIMCom presents a high performance GPS antenna module-SIM39EA. This is a standalone L1 frequency GPS 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 do customer application.

Smart Machine Smart Decision

Mechanical data

- Dimensions: 16*16*6.2mm
- Weight: 5.8g

Features

- Support EASY™ self-generated orbit prediction
- Support EPO™ orbit prediction
- Support AGPS
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)

Interfaces

- Serial interfaces
- Digital I/O

UART
TIMEMARK (PPS)
3D-FIX
- Protocols

NMEA
PMTK

Support product

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

Performance data

- Receiver type 22 tracking/66 acquisition-channel GPS receiver
GPS L1, C/A Code
- Max. update rate 10Hz
- Sensitivity¹

Tracking:	-165 dBm
Reacquisition:	-160 dBm
Cold starts:	-147 dBm
- Time-To-First-Fix²

Cold starts:	31 s (typical)
Warm starts:	30s
Hot starts:	<1s
EPO Assist:	13s (CTTFF)
- Accuracy

Automatic Position ³ :	2.5m CEP
Speed ⁴ :	0.1m/s
- Operation temperature: -40°C~+85 °C

Electrical data

- Power supply 2.8~4.3V
- Backup power 2.3V~4.3V
- Power consumption² 3.3V (typical)

Acquisition	23.mA
Tracking	17mA
sleep	200uA

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 SIM39EA
Please contact:
Tel: 86-21-32523300
Fax: 86-21-32523301
Email: simcom@sim.com
Website: www.sim.com