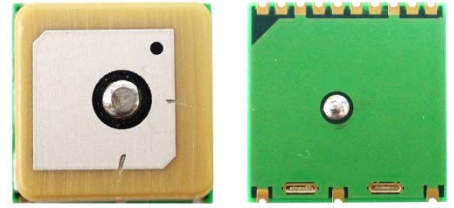




GPS Antenna Module



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℃~+85℃

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
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