



GPS Module

SIM28



SIMCom presents a high performance and reliable assisted GPS module-SIM28. It is in a SMT type with MTK mature GPS only navigation engine, which allows you to achieve the industry's high levels of accuracy and Time-to-First-Fix (TTFF) with lowest power consumption.

Smart Machine Smart Decision

Mechanical data

- Dimensions: 16*12.2*2.4mm
- Weight: 1g

Features

- Support EASY™ self-generated orbit prediction
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
- Support EPOTM orbit prediction
- Support Jamming removing function
- Low-noise amplifier has been integrated

Interfaces

- | | |
|--------------------|--|
| •Serial interfaces | UART, SPI / I ² C |
| •Digital I/O | TIMEMARK output
EINT0 input
GPIO |
| •Protocols | NMEA
PMTK |

Support evaluation products

- SIM28-TE
- SIM28EVB KIT with USB V2.0 full speed interface

Electrical data

- | | |
|-----------------------------------|--------------------------------|
| •Power supply | +2.8V ~4.3V |
| •Backup power | +2.3V ~4.3V |
| •Power consumption ^{2,5} | |
| -- Acquisition: | 24 mA |
| -- Tracking: | 19mA |
| -- Standby mode: | <200µA |
| •Antenna type | Active and Passive |
| •Antenna power | External or internal
VCC_RF |

Performance data

- | | |
|-----------------------------------|---|
| •Receiver type | 22 tracking / 66 acquisition-channel GPS receiver
GPS L1, C/A Code |
| •Max. update rate | 10Hz |
| •Sensitivity ¹ | |
| Tracking: | -167 dBm |
| Reacquisition: | -160 dBm |
| Cold starts: | -147 dBm |
| •Time-To-First-Fix ² | |
| Cold starts with EASY: | 13s |
| Warm starts with EASY: | 1~2s |
| Cold starts: | 32s |
| Cold starts with | |
| EPO Assist: | 12.5s |
| Hot starts: | <1s |
| •Accuracy | |
| Automatic Position ³ : | 2.5m CEP |
| Speed ⁴ : | 0.1m/s |
| Timing: | 10ns |
| •Operation temperature: | -40°C~+85 °C |

Certificate

-
- 1.Demonstrated with a good active antenna
 - 2.All SV @ -130 dBm
 - 3.50% 24 hr static, -130dBm
 - 4.50%@ 30m/s
 - 5. @3.3V with a passive antenna

More about SIMCom SIM28
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