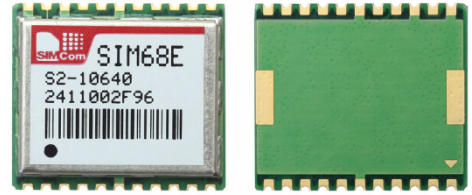




# GNSS Module



## SIM68E

SIMCom presents a high performance and reliable GNSS module-SIM68E. This is GNSS module integrated with GPS & GLONASS system in a SMT type with MTK's high sensitivity navigation engine, which allows customer to achieve industry's high level sensitivity, accuracy, and Time-to-First-Fix (TTFF) with lower power consumption.

### Smart Machine Smart Decision

#### Mechanical data

- Dimensions: 13\*15\*2.3mm
- Weight: 0.5g

#### Features

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

#### Interfaces

- Serial interfaces      UART
- Digital I/O            GPIO
- Pulse-per-second (PPS)

- Protocols               NMEA
- PMTK

#### Support product

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

#### Performance data

- Receiver type           33tracking/99 acquisition-channel GNSS receiver
- Max. update rate       10Hz
- Sensitivity<sup>1</sup>
  - Tracking:               -165 dBm
  - Reacquisition:       -160 dBm
  - Cold starts:           -148 dBm
- Time-To-First-Fix<sup>2</sup>
  - Cold starts:           28 s
  - Warm start:           26 s
  - Hot starts:            <1s
  - EPO Assist:           13s (CTTFF)
- Accuracy
  - Automatic Position<sup>3</sup>: <2.5m CEP
  - Speed<sup>4</sup>:                0.1m/s
- Operation temperature<sup>5</sup>: -40°C~+85 °C

#### Electrical data

- Power supply           2.8V~4.3V
- Backup power           2.3V~4.6V
- Power consumption<sup>2,6</sup>
  - Acquisition           25mA
  - Tracking               20mA
  - AlwaysLocate™       340uA
  - Backup                 14uA
- Antenna type           Active and passive

1. Demonstrated in lab
2. All SV @ -130 dBm, GPS&GLONASS mode
3. 50% 24 hr static, -130dBm, GPS&GLONASS mode
4. 50% @ 30m/s
5. When at -40°C~ -30°C, the sensitivity will be somewhat worse
6. @2.8V with a passive antenna

#### More about SIMCom SIM68E Please contact:

Tel: 86-21-32523300  
 Fax: 86-21-32523301  
 Email: [simcom@sim.com](mailto:simcom@sim.com)  
 Website: [www.sim.com](http://www.sim.com)

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