



# GPS Module

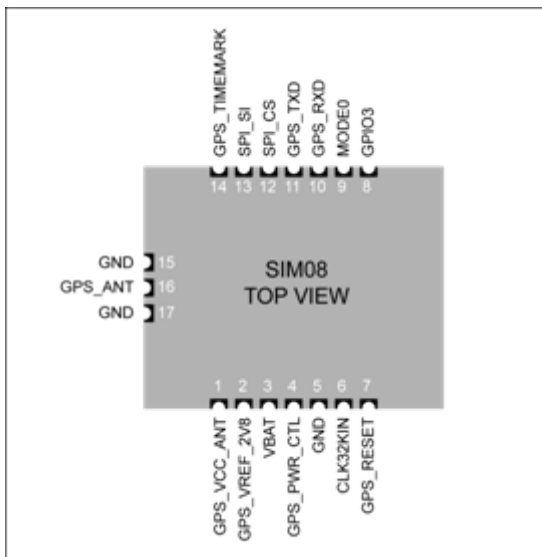
## SIM08



SIMCom presents a high-performance host-based GPS module-SIM08. It cooperates with SIM900 module in offering best-in-class acquisition and tracking sensitivity, Time-To-First-Fix, accuracy and ultra-low power consumption, allowing you to benefit from small dimensions and cost-effective solutions.

## Smart Machine Smart Decision

### Mechanical data



- Dimensions: 9.5\*12\*2.3mm
- Weight: TBD

### Interfaces

- Serial interfaces UART or slave SPI
- Digital I/O 1 configurable time pulse  
1 GPS\_RESET  
CLK32K input
- Protocols NMEA0183, ST Ericsson API air interface

### Performance data

- Receiver type 42-channel,  
GPS L1 C/A code,  
High-performance STE engine
  - Max. update rate 2 Hz
  - Sensitivity<sup>1</sup>  
Tracking: -160 dBm  
Acquisition (Cold starts) : -146 dBm
  - Time-To-First-Fix<sup>2</sup>  
Cold starts: < 35s  
Hot starts: < 2s
  - Accuracy<sup>2</sup>  
Horizontal position: < 2.5m CEP
  - Operation temperature: -40° C to +85 ° C
- 1 Demonstrated with a good active antenna  
2 All SV @ -130 dBm

### Electrical data

- Power supply: 3.0 V to 4.5V
- Power consumption  
Acquisition TBD (passive antenna)  
Tracking TBD (passive antenna)
- Antenna type Active and passive
- Antenna power External or internal VCC\_ANT 2.8V

### Support product

- SIM08 EVB KIT

More about SIMCom SIM08  
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