



GPS Module

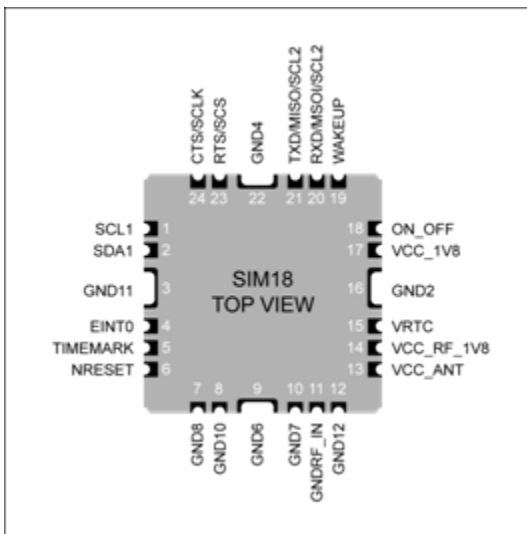
SIM18



SIMCom presents an ultra compact and reliable GPS module-SIM18. This is a standalone L1 frequency GPS module in a SMT type and designed with SiRF4 high sensitivity navigation engine, allowing you to benefit from small dimensions and cost-effective solutions.

Smart Machine Smart Decision

Mechanical data



- Dimensions: 11*11*2.4mm
- Weight: 0.5g

Interfaces

- Serial interfaces UART, SPI or I²C
Additional master mode I²C
- Digital I/O
1 NReset
1 EINT0 input
1 ON_OFF input
1 WAKEUP output
1 time pulse
- Protocols NMEA, OSP

Support product

- SIM18 EVB KIT with USB V2.0 full speed interface

Performance data

- Receiver type 48-channel SiRF4 engine
GPS L1, C/A Code
SBAS (WAAS or EGNOS)
- Max. update rate 1Hz
- Sensitivity¹
Tracking: -162 dBm
Reacquisition: -160 dBm
Cold starts: -147 dBm
- Time-To-First-Fix²
Cold starts: 33 s (Typ)
Hot starts: 0.6 s (Typ)
- Accuracy²
Position: 2.5m CEP
SBAS: TBD
Speed: <0.01m/s
- Operational limits
Velocity: <1000 knots
Altitude: <18.288m
- Operation temperature: -40° C to +85 ° C

Electrical data

- Power supply: 1.71V to 1.89V
- Backup power 1.71V to 1.89V
- Power consumption^{2,3}
Acquisition 50mA
Tracking 40mA
Keep-Alive Only <620 μ A
- Antenna type Active and passive
- Antenna power External or internal VCC_ANT
1 Demonstrated with a good active antenna
2 All SV @ -130 dBm
3 @ 1.8V with a passive antenna

More about SIMCom SIM18
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