



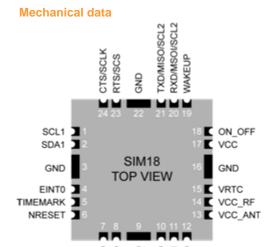




SIM₁₈

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

Smart Machine Smart Decision



•Dimensions: 11*11*2.2mm

•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 NMEA, OSP

Support product

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

Certificate

Protocols

•CE (available at Nov. 2010)

Performance data

•Receiver type 48-channel SiRF4 engine

GPS L1, C/A Code

•Max. update rate 1Hz

•Sensitivity1

Tracking: -161 dBm
Reacquisition: -160 dBm
Cold starts: -147 dBm

•Time-To-First-Fix²

Cold starts: 35 s (typical) Hot starts: 0.6 s (typical)

Accuracy

Position³: 2.5m CEP Speed⁴: <0.01m/s

Operational limits

Velocity: <1850km/h
Altitude: <18288km

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^{2,5}

Acquisition 45mA (average)
Tracking 40mA (average)
Sleep 18 μ A(average)
•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. 50% 24 hr static, -130dBm

4. 50%@ 30m/s

5. @1.8V with a passive antenna

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All specifications are subject to change without prior notice.