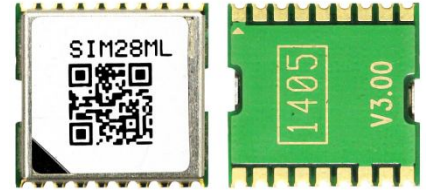




GPS Module



SIM28ML

SIMCom presents a small, high performance and reliable assisted GPS module-SIM28ML. This is a standalone L1 frequency GPS module in a SMT type and it is designed with MTK high sensitivity navigation engine, which allows you to achieves the industry's highest levels of sensitivity, accuracy, and Time-to-First-Fix (TTFF) with lowest power consumption.

Smart Machine Smart Decision

Mechanical data

- Dimensions 10.1*9.7*2.5mm
- Weight 0.5g

Features

- Support EPO™ orbit prediction
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
- Support Jamming Removing
- Low-noise amplifier has been integrated

Electrical data

- Power supply 2.8~4.3V
- Backup power 2.0~4.3V
- Power consumption

Acquisition	17mA
Tracking	16mA
Backup	8uA
- Antenna type Active and passive
- Antenna power External

Interfaces

- Serial interfaces
- Digital I/O

UART
GPIO
TIMEMARK (PPS)
NMEA
PMTK
- Protocols

Performance data

- Receiver type: 22 tracking/66 acquisition-channel GPS receiver
GPS L1, C/A Code
- Max update rate 5Hz
- Sensitivity¹

Tracking:	-165 dBm
Reacquisition	-160 dBm
Cold starts:	-148 dBm
- Time-To-First-Fix²

Cold starts	32 s (typical)
Warm starts	3s
Hot starts	<1s
EPO Assist	13s (CTTFF)
- Accuracy

Automatic Position ³	2.5m CEP
Speed ⁴	0.1m/s
- Operation temperature -40℃~+85℃

Certifications

- CE

Support product

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

1. Demonstrated in library
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 SIM28ML Please contact:

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