







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 Backup power Power consumption Acquisition Tracking Backup Antenna type Antenna power

2.8~4.3V 2.0~4.3V

17mA 16mA 81JA Active and passive External

Interfaces

 Serial interfaces •Digital I/O

•Protocols

UART GPIO TIMEMARK (PPS) NMEA PMTK

Performance data

•Receiver type:	22 tracking/66 acquisition- channel GPS receiver GPS L1, C/A Code
 Max update rate 	5Hz
•Sensitivity ¹	
Tracking:	-165 dBm
Reacquisition	-160 dBm
Cold starts:	-148 dBm
•Time-To-First-Fix ²	
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°C ~+85 °C

Certifications

•CE

Support product

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

1.Demonstrated in liberary 2.All SV @ -130 dBm 3.50% 24 hr static, -130dBm 4.50%@ 30m/s 5. @3.3V with a passive antenna

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All specifications are subject to change without prior notice.