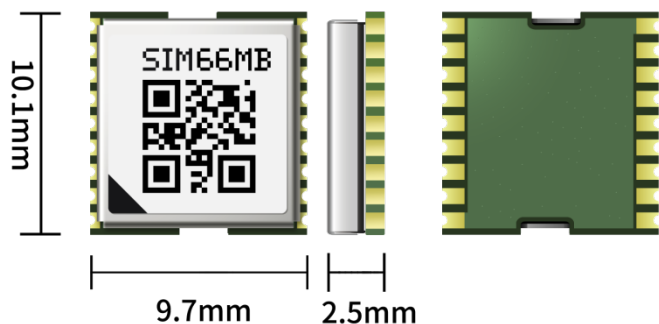


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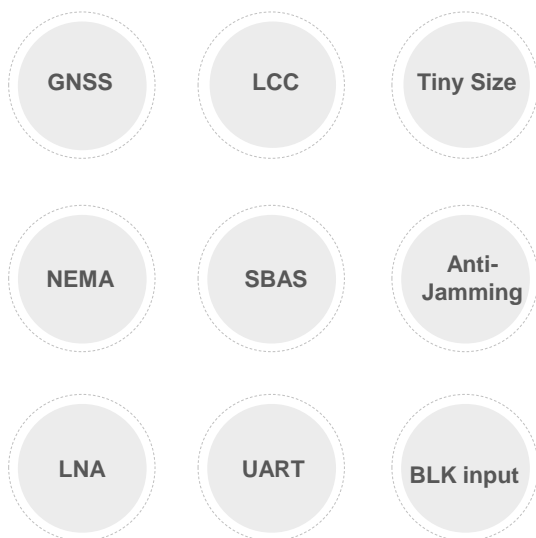
SIM66MB

SIMCom GNSS Module



Product Description

SIM66MB is a high performance and reliable GNSS module. It is a GNSS module integrated with GPS & BeiDou system in a LCC type with unicorecomm's high sensitivity navigation engine, which allows customer to achieve industry's high level sensitivity, accuracy, and Time-to-First-Fix (TTFF) with lower power consumption.



Key Benefits

- ◆ Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
- ◆ Support Jamming Removing
- ◆ Low-noise amplifier has been integrated

Mechanical data

Dimensions	10.1*9.7*2.5mm
Weight	0.46g±0.01g

Features

Support GPS/BeiDou (L1 Band Receiver 1575.42MHz)
Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
Support Jamming Removing
Low-noise amplifier has been integrated

Interfaces

Serial interfaces	UART
Digital I/O	BLK input
Protocols	NEMA

Certifications

TBD

Performance data

Receiver type	46tracking/64 acquisition-channel GNSS receiver
Max. update rate	1Hz
Sensitivity ¹	
Tracking	-160dBm
Reacquisition	-153dBm
Cold starts	-147dBm
Time-To-First Fix ²	
Cold starts	29s
Hot starts	<2s
Accuracy	
Automatic Position ³	<2.5m CEP
Speed ⁴	0.1m/s
Operation temperature ⁵	-40℃~+85℃

Electrical data

Power supply	1.7V~1.9V
Backup Power	1.4V~3.6V
Power consumption ^{2,6}	
Acquisition	53mA
Tracking	28mA
Backup	45uA
Antenna type	Active and passive
Antenna power	External or internal VCC_RF

Note