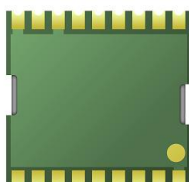


# SIM66MD

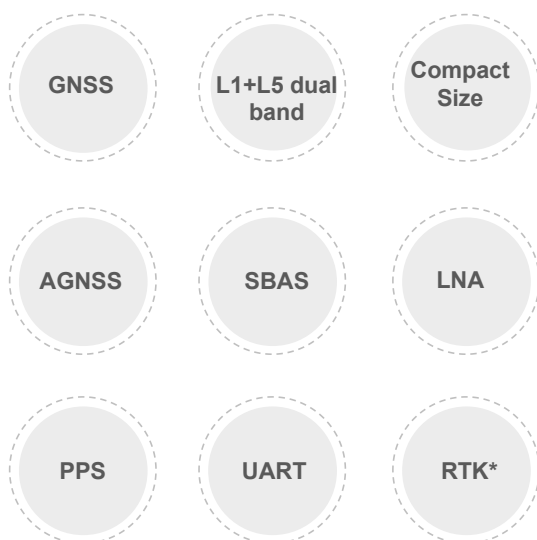
## SIMCom GNSS Module



### Product Description

SIM66MD is a high performance and reliable GNSS module. It is a standalone L1 +L5 dual-band GNSS module in a LCC, which allows customer to achieve industry's high level sensitivity, accuracy, and Time-to-First-Fix (TTFF) with lower power consumption.

SIM66MD provides simultaneous GPS, GLONASS, BeiDou , Galileo QZSS open service L1 reception capability and GPS, BeiDou, Galileo, QZSS and NAVIC open service L5 reception capability. SIM66MD can acquire and track any mix of multiple satellite signals. SIM66MD achieves the highest performance and fully meets the industrial standard.



### Key Benefits

- ◆ L1 and L5 dual-band GNSS receiver
- ◆ Support AGNSS
- ◆ Low-noise amplifier has been integrated
- ◆ Support RTK \*

## Mechanical data

Dimensions	10.1*9.7*2.5mm
Weight	0.5g

## Features

Support	L1: BeiDou/GPS/GLONASS/Galileo/QZSS L5: BeiDou/GPS/Galileo/QZSS/NAVIC*
Support AGNSS	
Support PPS	
Low-noise amplifier has been integrated	
Support DGPS (RTCM)/RTK*	
Indoor and outdoor multi-path detection and compensation	

## Interfaces

Serial interfaces	UART
	SPI*
	I2C*
Digital I/O	Pulse-per-second (PPS)
	EINT0 input
Protocols	NMEA
	RTCM*

## Certifications (plan)

CE
RoHS/Reach

### Note

1. Demonstrated in lab
2. All SV @ -130 dBm
3. 50% 24 hr static, -130dBm
4. 50% @ 30m/s
5. When at -40°C ~ -30°C, the sensitivity will be somewhat worse
6. @3.3V with a passive antenna
7. \*: optional

## Performance data

Receiver type	L1: 75SVs L5: 60SVs
Max. update rate	10Hz
Sensitivity	
Tracking	-166dBm
Reacquisition	-156dBm
Cold starts	-150dBm
Time-To-First Fix	
Cold starts	25s
Warm start	25s
Hot starts	<1s
Accuracy	
Automatic Position	1.5M
Speed <sup>4</sup>	0.01m/s
Operation temperature	-40°C ~ +85 °C

## Electrical data

Power supply	2.1V~4.0V
Power consumption	
Acquisition	40mA
Tracking	40mA
RTC current	60uA
Antenna type	Active and passive
Antenna power	External or internal VCC_RF



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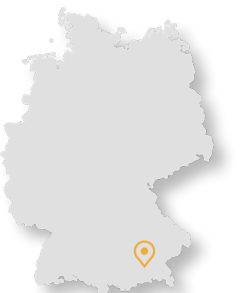
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