SIM66M

SIMCom GNSS Module

10.1mm

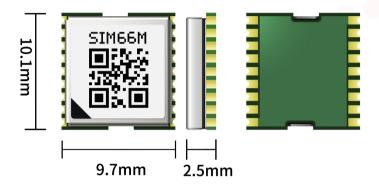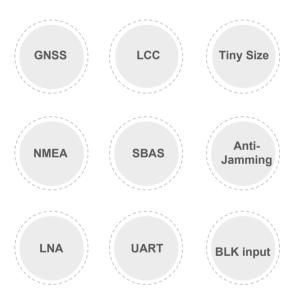9.7mm   2.5mm

Product Description

SIM66M is a high performance and reliable GNSS module. It is a GNSS module integrated with GPS, GLONASS& Galileo* 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.

| GNSS | LCC | Tiny Size |

| NMEA | SBAS | Anti-Jamming |

| LNA | UART | BLK input |

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/GLONASS/Galileo*
(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
	PPS
Digital I/O	BLK input
Protocols	NMEA

Certifications

CE*

RoHS/REACH

Performance data

Receiver type	46tracking/64 acquisition-channel GNSS receiver
Max. update rate	1Hz
Sensitivity[1]	
Tracking	-160dBm
Reacquisition	-158dBm
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	3.2V~4.0V
Backup Power	1.4V~3.6V
Power consumption[2,6]	
Acquisition	27mA
Tracking	28mA
Backup	60uA
Antenna type	Active and passive
Antenna power	External or internal VCC_RF

Note

* on going