

39B GNSS module

N39B is an ultra-compact POT(Patch on Top)
GNSS module. This is a standalone GNSS module in a SMT type base on MTK high sensitivity navigation engine. N39B supports EASY™, provides up to 3 days GNSS orbit prediction ability without any host CPU porting or internet connection requirement. It has tiny package and extremely low power consumption, makes it easier to be applied to power sensitive devices.





Tiny Size

Ultra Low Power Extended Temperature Consumption Range-40°C to +85°C







EASY™Technology

Super Tracking Sensitivity-165dBm

Patch Antenna



Main Features

- Support EPO[™] orbit prediction
- Support EASY[™] self-generated orbit prediction
- Support GPS/Galileo/Glonass/BD2
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS)
- Low noise amplifier has been integrated
- Patch Dimensions : 18.4*18.4*4.0 mm
- Module Dimensions: 16.0*16.0*6.2 mm
- Weight: about 8g
- Operation temperature : -40°C~+85 °C

Power Management

- Power supply: +2.8V ~4.3V
- Backup power: +2.0V ~4.3V
- Power consumption
- Acquisition: 25mA
- Tracking: 22mA
- Sleep: 340µA
- Backup: 15µA
- Antenna type : Embedded

Performance Data

- Receiver type 33 tracking / 99 acquisition- channel GNSS receiver
- Maximum update rate: 10Hz
- Sensitivity

: -165 dBm Tracking

Reacquisition: -160 dBm

Cold starts : -148 dBm

TTFF without EASY™

Cold starts : 32s (typical)

Warm starts: 30s

Hot starts : <1s

TTFF with EASY™

Cold starts : 15s (typical)

Warm starts: 5s

Hot starts : <1s

Accuracy

Automatic Position: 2.5m CEP

Speed: 0.1m/s

Interfaces

- Serial interface **UART**
- Digital I/O

PPS

Force_on

3D-FIX

Protocols

NMEA



