



# N20B

## GNSS module

N20B is a small, high performance and reliable assisted GNSS module. This is an independent SMT GNSS module base on MTK high sensitivity navigation engine. It has tiny package and extremely low power consumption, makes it easier to be applied to power sensitive devices.



Tiny Size



Ultra Low Power Consumption



Extended Temperature Range -40°C to +85°C



EASY™ Technology



Super Tracking Sensitivity -165dBm

## 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
- Dimensions: 16\*12.2\*2.5 mm
- Weight: <1 g
- 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: 14μA
- Antenna type: Active and Passive
- Antenna power: External

## Interfaces

- Serial interfaces
  - UART
- Digital I/O
  - INT Input
  - PPS
  - GPIO
- Protocols
  - NMEA
  - PMTK

## Performance data

- Receiver type
  - 33 tracking / 99 acquisition- channel GNSS receiver
- Maximum update rate : 10Hz
- Sensitivity
  - Tracking : -165 dBm
  - Reacquisition : -160 dBm
  - Cold starts : -148 dBm
- Time-To-First-Fix
  - Cold starts : 25s (typical)
  - Warm starts : 23s
  - Hot starts : <1s
  - EPO Assist : 15s (CTTFF)
- Accuracy
  - Automatic Position : 2.5m CEP
  - Speed : 0.1m/s



**LYNO**