



N30B

GNSS module

N30B 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. 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



Embedded Patch Antenna

Main Features

- Support EPO™ orbit prediction
- Support EASY™ self-generated orbit prediction
- Support GPS/Galileo/Glonass/BD2
- Support DGPS,QZSS, 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*6.45 mm
- Weight : about 6g
- 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 current : 340μA
 - Backup : 15μA
- Antenna type : Embedded

Interfaces

- Serial interface
 - UART
- Digital I/O
 - PPS
 - Force_on
- Protocols
 - NMEA
 - PMTK

Performance Data

- Receiver type
 - 33 tracking / 99 acquisition- channel GNSS receiver
- Max.update rate: 10Hz
- Sensitivity
 - Tracking : -165 dBm
 - Reacquisition : -160 dBm
 - Cold starts : -148 dBm
- Time-To-First-Fix without EASY™
 - Cold starts : 32s (typical)
 - Warm starts : 30s
 - Hot starts : <1s
- TTFF with EASY™ Assist
 - Cold starts : 15s (typical)
 - Warm starts : 5s
 - Hot starts : <1s
- Accuracy
 - Automatic Position : 2.5m CEP
 - Speed : 0.1m/s



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