



N20 GPS module

N20 is a small, high performance and reliable assisted GPS module. This is a standalone GPS 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

Main Features

- Support EPO™ orbit prediction
- Support EASY™ Self-Generated Orbit Prediction feature
- Support GPS
- 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 : 18mA
 - Tracking : 16mA
 - Sleep : 340μA
 - Backup : 8μA
- Antenna type : Active and Passive
- Antenna power : External

Interfaces

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

Performance data

- Receiver type
 - 22 tracking / 66 acquisition- channel GPS receiver
 - GPS L1, C/A Code
- Maximum update rate : 5Hz
- Sensitivity
 - Tracking : -165 dBm
 - Reacquisition : -160 dBm
 - Cold starts : -148 dBm
- Time-To-First-Fix
 - Cold starts : 32s (typical)
 - Warm starts : 30s
 - Hot starts : <1s
 - EPO Assist : 15s (CTTFF)
- Accuracy
 - Automatic Position : 2.5m CEP
 - Speed : 0.1m/s

