

GPS module

N10 is a small, high performance and reliable 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 Extended Temperature Consumption Range-40°C to +85°C



EASY[™]Technology Super

Super Tracking Sensitivity-165dBm



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Main Features

- Support EPO[™]orbit prediction
- Support EASY[™] Self-Generated Orbit Prediction feature
- Support GPS
- Built-in LNA
- Dimensions: 10.1*9.7*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

