

GNSS Signal Collector Product Specification

Datasheet

Part Number: BMOF2-100



北京微电子技术研究所

BMOF2-100- GNSS Signal Collector Product Specification

【Overview】

BMOF2-100 is a GNSS (Global Navigation Satellite System) signal collector developed independently by Beijing Microelectronics Technology Institute. The product involves signal processing device and software. It can be used to receive and deal with the GPS L1 signal and BDS B1/B2 signal in real time, and it is suitable to test different of GNSS navigation receiver technologies such as anti-interference receiver, high dynamic receiver and integrated navigation system. The product has advantages of flexibility, portability and ease to use. It also can save and output final navigation information and digital signal data.

【Features】

- ◆ Working frequency: GPS L1、 BDS B1/B2
- ◆ Channel Number: 12
- ◆ Hardware Interface/Power: USB 3.0
- ◆ Acquire Sensitivity: -145dBm(GPS), -143dBW(BDS)
- ◆ Tracking Sensitivity: -158dBm(GPS), -158dBm (BDS)
- ◆ Sampling Frequency: 62MHz
- ◆ Quantification Bit Number: 1~4bit, 1bit(default)
- ◆ Software Environment: PC Windows
- ◆ Digital Signal Output Channel: 2
- ◆ Positional accuracy: 3m
- ◆ Speed precision: 0.1m/s
- ◆ Start time: 1min
- ◆ Initial time: 10s
- ◆ Data interface: RTCM 2.x/3.x, NMEA
- ◆ Data update rate: 1Hz
- ◆ Operating temperature range: -15 to +50 ℃
- ◆ Storage temperature range: -40 to +50 ℃

【Application】

Software development
Signal verification
Position testing
Algorithm researching

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