Satellite-borne Dual-mode Four-frequency GNSS Receiver

Datasheet

Part Number：BMMS01-00

北京微电子技术研究所

BMMS01-00-Satellite-borne Dual-mode Four-frequency GNSS Receiver Product Specification

【Overview】

The BMMS01-00 is a satellite-borne dual-mode four-frequency GNSS (Global Navigation Satellite System) receiver developed independently by Beijing Microelectronics Technology Institute. It can be used to receive the GPS signal and BDS signal. The satellite signal processing chip used in the receiver is also developed independently. The BMMS01-00 has the advantages of high integration, low power, small size, high reliability, and high performance, etc. It has the capability to work for a long time in space and high-dynamic environment, and to provide the real-time information including high-precision navigation positioning messages, orbit parameters, UTC time and original telemetry information.
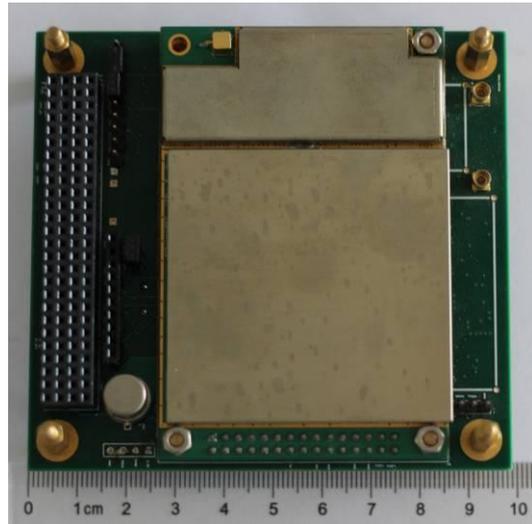
【Features】

◆Working frequency: GPS L1, GPS L2, BDS B1, BDS B3

◆Working mode: Single GPS positioning mode, Single BDS positioning mode, GPS and BDS joint positioning mode, Backup positioning mode

◆Interface: PC104 standard interface、RS422 interface

◆Size：99.2mm×96.0mm×15.0mm

◆Weight：90g±10 g

◆Voltage：5V

◆Power：<2.5W(GPS), <1.1W(BDS), <3.5W(GPS+BDS), <1.0W(Backup)

◆Positional accuracy: 10m, Speed precision: 0.2m/s

◆Precision of original measurement carrier phase: 2mm

◆Orbital altitude: 300~600Km

◆Start time: 1min

◆Sensitivity: -163dBW

◆Data interface: Indirect instruction, Telemetry polling instruction

◆Data update rate: 1Hz

【Application】

The BMMS01-00 is suitable for the high-precision real-time orbit determination and posterior sophisticated orbit determination.

Service and Support：

Address：   No.2 Siyingmen N. Road. Donggaodi. Fengtai District.Beijing.China.

Department：   Department of international cooperation

Telephone：+86(0)10-68757343

Email：gjhz@mxtronics.com

Fax：+86(0)10-68757706

Zip code：100076