

Satellite-borne Dual-mode Dual-frequency GNSS Receiver

Datasheet

Part Number: BMMS02-00

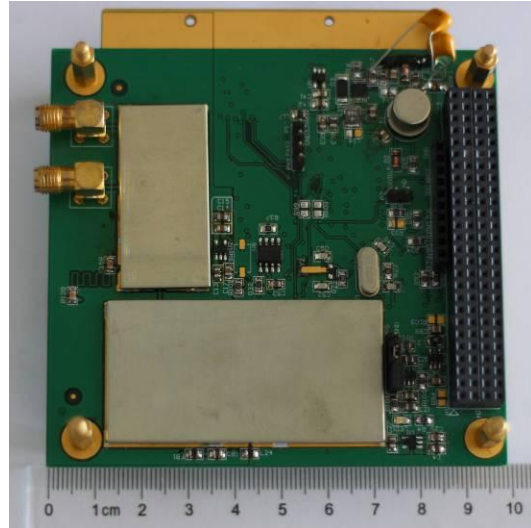


北京微电子技术研究所

BMMS02-00-Satellite-borne Dual-mode Dual-frequency GNSS Receiver Product Specification

【Overview】

The BMMS02-00 is a satellite-borne dual-mode dual-frequency GNSS (Global Navigation Satellite System) receiver developed independently by Beijing Microelectronics Technology Institute. It can be used to receive the GPS L1 signal and BDS B1 signal. The satellite signal processing chip used in the receiver is also developed independently. The BMMS02-00 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 its own operating status information, etc.



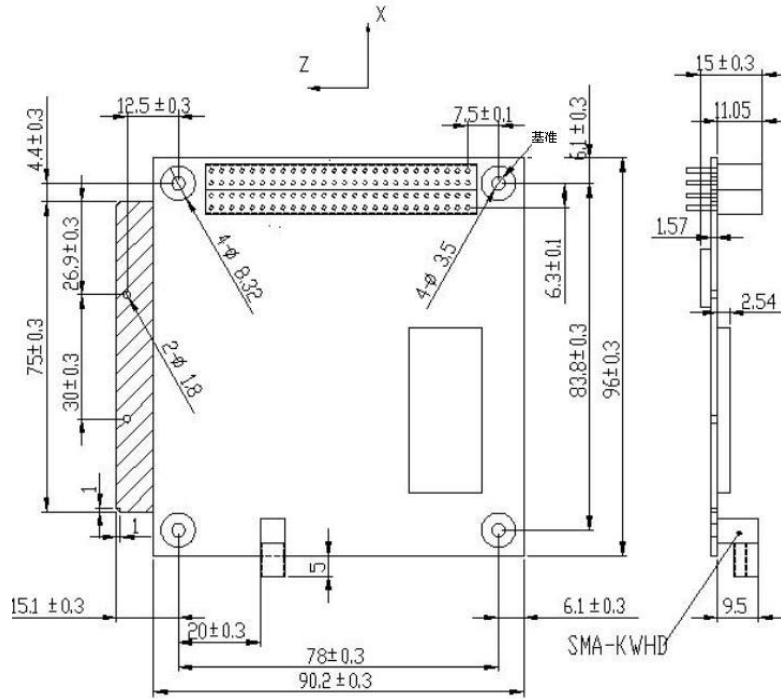
【Features】

- ◆ Working frequency: GPS L1、BDS B1
- ◆ Working mode: Single GPS positioning mode, Single BDS positioning mode, GPS and BDS joint positioning mode
- ◆ Interface: PC104 standard interface、RS422 interface
- ◆ Size: 99.2mm×96.0mm×15.0mm
- ◆ Weight: 65g±10 g
- ◆ Voltage: 5V
- ◆ Power: <1.0W
- ◆ Positional accuracy: 10m, Speed precision: 0.2m/s
- ◆ Orbital altitude: 300~600Km
- ◆ Start time: 1min
- ◆ Sensitivity: -163dBW
- ◆ Data interface: Indirect instruction, Telemetry polling instruction
- ◆ Data update rate: 1Hz
- ◆ Operating temperature range: -15 to +50 ℃
- ◆ Storage temperature range: -40 to +50 ℃

【Application】

The BMMS02-00 is suitable for the high-precision real-time orbit determination and posterior sophisticated orbit determination.

【Physical dimension and interface definition】



NAME (FUNCTION DESCRIPTION)	ELECTRICAL CONNECTOR SYMBOLS	H1/H2 (ESQ-126-39-G-D)			PIN/ HOLE	OUTLETS
		VOLTAGE (V)	CURRENT (A)	POLARIT Y		
SYMBOLS	SIGNAL DESCRIPTION	REMARK (SHIELD/MULTIPLE TWIN)				
H2-41	GNSS Receiver Power On	0-5V	200mA			
H2-42	GNSS Receiver Power Off	0-5V	200mA			
H1-13	422GNR-				DIFFERENCE	
H1-15	422GNR+				DIFFERENCE	
H1-14	422GNT-				DIFFERENCE	
H1-16	422GNT+				DIFFERENCE	
H1-49	5V					
H1-50	5V					
H1-39	GND				POWER GROUND	
H1-40	GND				POWER GROUND	
H1-41	GND				POWER GROUND	
H1-42	GND				POWER GROUND	
H2-1	GND				POWER GROUND	
H2-2	GND				POWER GROUND	

Note: H2 is near the edge of the board, H1 is inside of the board.

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