

MM117BX is a dual-frequency RTK high-precision heading module. Built on proprietary high-precision chip technology, it seamlessly supports multi- constellation and muti-frequency including BDS, GPS, GLONASS, Galileo and QZSS. MM117BX features a compact, small-form-factor design, compatible with leading positioning and heading modules in the market. It supports RTK high-precision positioning and orientation, coupled with ultra-low power consumption, offering a high-performance solution for precision location and direction applications.

Technical Features

- Concurrent reception of multi-constellation muti-frequency
- •Support Beidou-3 signals
- Smart suppress anti-jamming technology
- •Mainstream package size 30x40mm
- Dual-frequency RTK positioning technology with 2°/1m heading accuracy

Specifications

Power Supply		
Voltage	3.0V~ 3.6V	
RF input		
Signal Tracking	BDS B1I	
	GPS /QZSS L1C/A L2C	
	GLONASS L1□L2	
	GALILEO E1	
Physical		
Package	40x30x4mm	
I/O Data Interface		
UART	Default 115200bps	
GNSS Performance		
TTFF	Cold Starts: ≤30	
	Hot Starts: ≤2s	
RTK Initialization Time	□10s	
Heading Initialization Time	□15s	
Position Accuracy	PVT:1.5m	
	RTK:1cm+1ppm	
Heading Accuracy	0.2°/m	
Velocity Accuracy	0.05m/s	

Sensitivity	Tracking: -158dBm
Sensitivity	Acquisition: -146dBm
Nav. Update Rate	1(Default) / 5 / 10 / 20HZ
Nav. Data Format	NMEA 0183 V4.1
Ivav. Data Format	PTCM3.X

Application Fields







