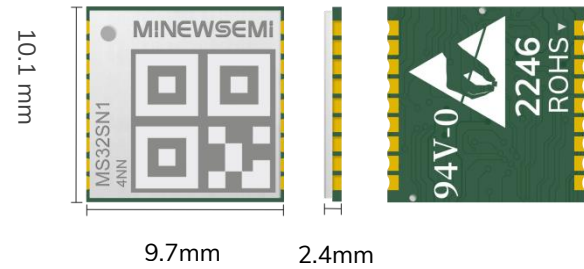


MS32SN1

Small Size GPS Module

GNSS Module









MS32SN1 is a high-sensitivity GPS module that supports receiving GPS and QZSS L1 C/A signals. By advanced AGPS (EASY™) orbit prediction technology, the MS32SN1 module has high performance and fully meets industry standards. EASY™ technology enables MS32SN1 to automatically calculate and predict orbit information for three days, and store this information in the internal RAM memory, which can achieve low power consumption and fast positioning even in indoor weak signal conditions.

With ultra-small size, ultra-high precision and sensitivity features, MS32SN1 can meet almost all application requirements of M2M customers, especially suitable for handheld devices, vehicles, personal tracking, security, industrial PDA and other fields. Providing an ideal solution for related applications such as automotive, industrial PDA, driving recorder and wearable products. Low power consumption meets the high requirements of portable devices. It provides convenience for the integration of such applications and fully meets industry standards.

Advantages

- Support GPS and QZSS
- AGPS (EASY™) Orbit Prediction Technology
- Inside built-in low noise amplifier and Improved reception sensitivity
- Low power consumption: 25mA @tracking mode
- Power saving mode (AlwaysLocate™ technology)
- Strong anti-interference

					
Full-constellation	Low-power	Anti-interference	Rapid location	Industrial-grade Temperature	L1S Broadcast

Parameter		Specification		
1	Constellation	GPS:	L1 C/A	Factory Default
		QZSS:	L1 C/A	Full-Constellation
2	Operating frequency	GPS L1:	1575.42MHz	
		QZSS L1:	1575.42MHz	
3	Sensitivity	Cold Start:	-148dBm	
		Re-capturing:	-160dBm	
		Hot Start:	-163dBm	
		Tracking:	-165dBm	
4	First Positioning Time	Cold Start:	≤29s(Avg)	
		Warm Start:	≤29s(Avg)	
		Hot Start:	1s;	
5	Position Precision	Single point location	2.5m CEP (Typical Open Sky)	
6	Speed Precision	0.1m/s CEP		
7	Time Precision	20 ns		
8	Input Voltage	Main Power:	2.8-3.6V	
		Backup Power	1.8-3.6V	
9	Power Consumption	Capturing:	30mA @3.3v avg	
		Tracking:	25mA @3.3v avg	
		Sleeping:	12uA @3.3v avg	
10	Storage Temp	-40°C - +85°C		
11	Work Temp	-40°C - +85°C		
12	Refresh Frequency	GNSS:1-10Hz;		
13	Packaging Dimension	10.1*9.7*2.4mm, LCC 24 pin		

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