

Bluetooth LE Module

MS45SF1



Datasheet

V 1.0.0



MS45SF1-nRF5340

Dual Core, Ultra Low Power, Full IO Port, High Performance Bluetooth 5.4 Module

The MS45SF1 is a chip Bluetooth 5.4 module designed using the Nordic nRF5340. It has 1 MB FLASH, 512 KB RAM, a floating point unit (FPU), an 8 KB 2-way associative cache, and DSP instruction functions; the network processor has a frequency of 64 MHz and is optimized for low power consumption and efficiency, and it comes with 256 KB FLASH and 64 KB RAM, enabling more powerful computing capabilities and floating point technologies. It can realize very complex algorithms. It is suitable for Bluetooth low-power applications and Bluetooth high-end applications.

FEATURES



Bluetooth 5.4



Dual core



All IO ports



Ultra-low power consumption



High Performance

KEY PARAMETERS

MS45SF1-nRF5340			
Chip Model	nRF5340	Antenna	PCB
Module Size	18×12.5×2mm	GPIO	48
Flash	1M+256KB	RAM	512KB+64KB
Receiving Sensitivity	-98dBm (1Mbps) ; -104dBm (125kbps)	Transmission Power	-40 ~ +3dBm
Current(TX)	0dBm- 3.2mA	Current(RX)	2.6mA

APPLICATION



Smart Buildings



Consumer Electronics



Smart Healthcare



Smart Agriculture



Security Equipment



Automotive Equipment

CERTIFICATION



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RELATED DOCUMENTS

- nRF5340_Chip_Datasheet
https://en.minewsemi.com/file/nRF5340_Chip_Datasheet_EN.pdf
- MinewSemi_Product_Naming_Reference_Manual_V1.0
https://en.minewsemi.com/file/MinewSemi_Product_Naming_Reference_Manual_EN.pdf
- MinewSemi_Connectivity_Module_Catalogue_V2.0
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