

Small Wi-Fi 6 + BLE 5.3 Combo Module

ME16WS03



Datasheet
V 1.0.0





ME16WS03-nRF7002+nRF5340


Dual-Core, High-performance, Ultra-low-power, Support AP/STA Mode, Support Wi-Fi 6 Dual-band 2.4G & 5G, Small dimensions


ME16WS03 Wi-Fi 6+BLE Combo Module adopts integrated WLCSP nRF7002 and WLCSP nRF5340 chip, supports BLE mode, at the same time supports Wi-Fi 6 dual-band connection, 2.4G and 5G function, 1T1R. WiFi maximum rate is 86mbps, output power can reach up to 21dBm, receiving current is 56mA in 2.4G band, and 58mA in 5G band. It supports BLE master-slave mode and transparent transmission mode. It adopts independent antenna design for WiFi and BLE, which does not interfere with each other, and the antenna interface is IPEX. One device can support two wireless connection modes, WiFi and BLE.


FEATURES



Bluetooth 5.3


Dual-core


Ultra-low-power


Small dimensions


Support Wi-Fi 6 dual-band 2.4G and 5G, 1T1R


High-performance

KEY PARAMETER

ME16WS03			
Chip Model	nRF7002+nRF5340	Antenna	IPEX
Module Size	23.2×16×3.6mm	GPIO	23
Flash	1MB+256KB	RAM	512KB+64KB
Receiving Sensitivity	-98dBm	Transmission Power	BLE:-40 ~ +3dBm WiFi:+21dBm
Current(TX)	2.4G-191mA 5G-260mA	Current(RX)	2.4G-56mA 5G-58mA
Firmware	/		

APPLICATION


Smart Buildings


Consumer Electronics


Smart Healthcare


Automotive Devices


Intelligent Wearable Device


Smart Agriculture

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2 RELATED DOCUMENTS

- 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
https://en.minewsemi.com/file/MinewSemi_Connectivity_Module_Catalogue_EN.pdf



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