

Fibocom WN371-GL (iPA)

Wi-Fi 7 Module



Key advantage

- DBDC up to 4x2 matrix feedback for 2.4GHz@ BW20/40MHz, and 5x3 matrix feedback for 5GHz@BW20/40/80/160MHz
- Support up to 4096QAM @3600Mbps



IEEE 802.11
a/b/g/n/ac/ax/be Standard

WN371-GL is a high-performance Wi-Fi 7 module in LGA package, it can be used to establish WLAN connections. Supporting 2×2@2.4GHz+3×3 @5GHz, it provides a maximum data rate up to 3600Mbps.



LGA Package

With a Dimension of 45mm×48mm×2.75mm, WN371-GL has many advantages, it offers feature-rich wireless connectivity at high standards and delivers reliable/cost-effective throughput from an extended distance, deploys a highly efficient offload engine and hardware data processing accelerators. This Module supports ipex connector, makes it can provide higher reliable performance .



PCIe GEN3.0 interface

Designed with a reliable PCIe interface to provide WLAN capability, WN371-GL achieves high-speed data transmission. With its extended temperature range, enables the module to meet Wi-Fi application design requirements in industrial, consumer fields.



Reference design



Wi-Fi&Bluetooth		WN371-GL	
Region		Global	
Basic Features			
Chipset		MT7991BV+MT7976CN	
Package		LGA	
Dimension (mm)		45 x 48x 2.75 mm	
WiFi Protocol Version		a/b/g/n/ac/ax/be	
Bluetooth Standard		NA	
Bands		2.4GHz, 5GHz (2ss)	
2.4 GHz Channel Bandwidth		20/40MHz	
5 GHz Channel Bandwidth		20/40/80/160MHz	
MIMO		2x2@2.4GHz+3x3@5GHz	
DBS/DBDC/DBC/TBTC		DBDC	
Modulation		4096 QAM	
Power Supply		VCC3.3V/VIO1.8V	
Operating Temp.		-10°C ~70°C	
OS supported		Android /Linux	
Data Rate(Max)			
802.11be		3600Mbps	
Performance		Tx Power	EVM
2.4G	802.11b/11Mbps	22dBm±2dB	≤30%
	802.11ax 20M/MCS11	15dBm±2dB	≤-38dB
	802.11be 40M/MCS13	14dBm±2dB	≤-41dB
5G	802.11a 54Mbps	19dBm±2dB	≤-28dB
	802.11ax 20M /MCS11	16dBm±2dB	≤-38dB
	802.11be 20M/MCS13	16dBm±2dB	≤-41dB
	802.11be 160M/MCS13	14dBm±2dB	≤-41dB
Interfaces			
PCIe		GEN3.0	
UART		Not Support	
PCM		Not Support	
Antenna Interface		WLAN ANT0, WLAN ANT1,WLAN ANT2	

* =planning /under development

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