

Fibocom WN372-GL (iPA)

Wi-Fi 7 Module



Key advantage

- Support WiFi7 technology and offers feature-rich wireless connectivity at high standards and delivers reliable/cost-effective throughput from an extended distance
- IEEE 802.11 a/b/g/n/ac/ax/be compliant, DBDC up to 7200Mbps
- 2.4GHz@BW20/40MHz,5GHz@BW20/40/80/160MHz
- 4096 QAM ,MU-MIMO TX and RX



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

WN372-GL is a high-performance Wi-Fi 7 module in LGA package, it can be used to establish WLAN connections. Supporting 4×4@2.4GHz+5×5 @5GHz, it provides a maximum data rate up to 7200Mbps.



LGA Package

With a Dimension of 45mm×48mm×2.75mm, WN372-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, WN372-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 Module | | WN372-GL | |
|---------------------------|---|-------------|--------|
| Region | Global | | |
| Basic Features | | | |
| Chipset | MT7992AV+MT7975N+MT7979N | | |
| Package | LGA | | |
| Dimension (mm) | 45 x 48 x 2.75 mm | | |
| WiFi Protocol Version | a/b/g/n/ac/ax/be | | |
| Bluetooth Standard | NA | | |
| Bands | 2.4GHz, 5GHz | | |
| 2.4 GHz Channel Bandwidth | 20/40MHz | | |
| 5 GHz Channel Bandwidth | 20/40/80/160MHz | | |
| MIMO | 4x4@2.4GHz+5x5@5GHz | | |
| DBS/DBDC/DBC/TBTC | DBDC | | |
| Modulation | 4096 QAM | | |
| Power Supply | VCC 3.3V/VIO 1.8V | | |
| Operating Temp. | -10°C ~70°C | | |
| OS supported | Android /Linux | | |
| Data Rate(Max) | | | |
| 802.11be | 7200Mbps | | |
| Performance | | Tx Power | EVM |
| 2.4G | 11ax MCS11 (20M) | 19dBm±2dB | ≤38dB |
| | 11be MCS13 (40M) | 17dBm±2dB | ≤-42dB |
| 5G | 11ax MCS11 (160M) | 18.5dBm±2dB | ≤-43dB |
| | 11be MCS13 (20M) | 19.5dBm±2dB | ≤-43dB |
| | 11be MCS13 (80M) | 18.5dBm±2dB | ≤-42dB |
| | 11be MCS13 (160M) | 18.5dBm±2dB | ≤-42dB |
| Interfaces | | | |
| PCIe | GEN3.0 X1 with L1 substate | | |
| UART | Not Support | | |
| PCM | Not Support | | |
| Antenna Interface | WLAN ANT0, WLAN ANT1,WLAN ANT2,WLAN ANT3,WLAN ANT4, WLAN ANT5 | | |

* =planning /under development

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