Care / Connect / Customize
Extend Your Reach.

Wi-Fi 7 Mini PCIe Module
AW7990-NPD

3600M bps 2x2
AW7990-NPD
Wi-Fi 7 Mini PCIe module

Description

AW7990-NPD is an Wi-Fi 7 BE3600 module with MediaTek MT7990AN chipset supports Wi-Fi 7 technology and feature IEEE802.11a/b/g/n/ac/ax/be compliant, 2.4GHz 2x2 2ss,5GHz 2x2 2ss BE3600 Wi-Fi subsystem. The MT7990AN offers feature-rich wireless connectivity at high standards and delivers reliable, cost-effective throughput from an extended distance.

The optimized Wi-Fi baseband algorithms provide superb performance. The intelligent MAC design deploys a highly efficient offload engine and hardware data processing accelerators, which fully offload Wi-Fi task of the host processor. The MT7976CN is designed to support standard-based features in the areas of security, quality of service, and international regulations, giving end users the greatest performance at any time and in any circumstances.

30 mm

51 mm

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Features

WLAN

- IEEE802.11 a/ b/ g/ n/ ac/ ax/ be compliant
- Frequency band\ 2.4GHz [G+N-band]
    - Bandwidth: G+N 40 MHz
    - 2 x 2 + 2 x 2' 2ss
    (2T2R 2.4GHz+2T2R 5GHz)
- Frequency band\ 5GHz [AN+AC+AX-+BE-band]
    - Bandwidth:20/ 40/ 80/ 160MHz
    - 2T2R 2ss

- Dual-Band Dual Concurrent (DBDC) iFEM
- Supports up to 4096-QAM
- Data rate of up to 688Mbps for 40MHz channel in 2.4Ghz and 2882Mbps for 160MHz in 5GHz mode
- Integrated power detector to support per packet Tx power control
- Multi-user multiple input multiple output **(MU-MIMO) for Tx and Rx**
- Multi-user Orthogonal Frequency-Division Multiple Access **(MU-OFDMA) for Tx and Rx**
- Support STBC, LDPC, Tx beamformer and Rx beamformee
- Support greenfield mode, mixed mode, and legacy mode

For more detailed information, please contact our sales team: sales@asiarf.com / +886 2 2940 7880