

MERCUSYS®

Wi-Fi 7

BE9300

Wi-Fi 7 Bluetooth PCIe
Adapter

Model: MA49BE



Windows 11

Compatible with Intel-based Windows 11/10 Only



Amazing 5765 Mbps + 2882
Mbps + 688 Mbps Tri-Band Wi-Fi†

Bluetooth 5.4 Enhances
Reliability and Compatibility§

Magnetized Antenna Base with
High-Performance Antennas

Maximize Network
Efficiency with MLO

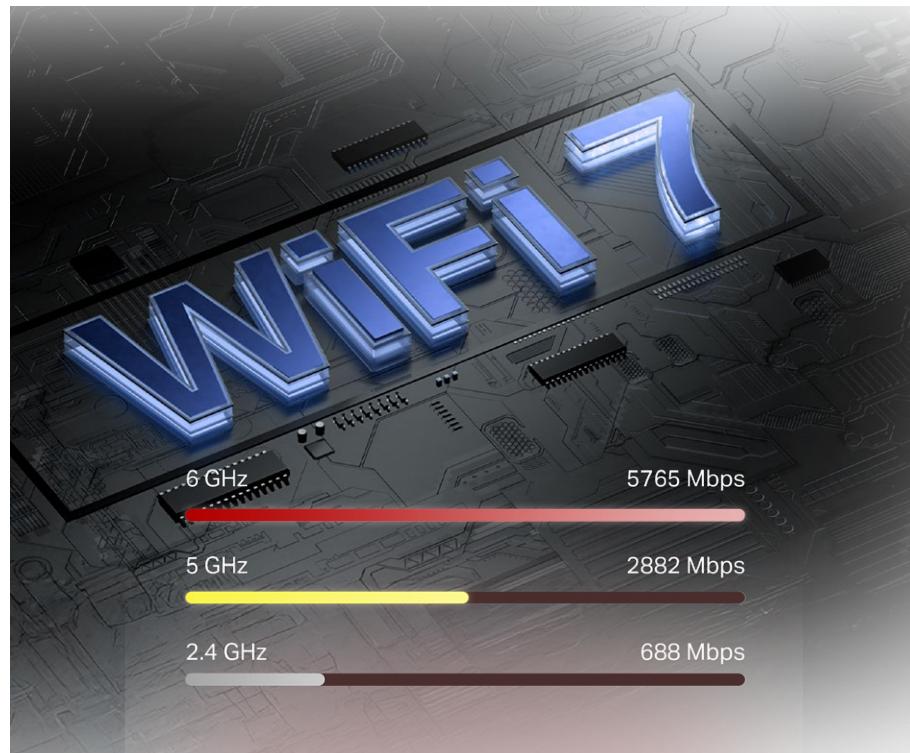
WPA3 for Overall
Security Protection^

Low-Profile
Bracket Support

// Features

Enjoy the Ultimate Speed of Wi-Fi 7

Enhanced by 4K-QAM and 320 MHz, MA49BE delivers astonishing wireless speeds up to 5.8 Gbps on the 6 GHz band.[‡] MLO lowers latency and optimizes traffic automatically for seamless connectivity. Enjoy unlimited 8K streaming and lightning-fast downloads.*



Super Stable Bluetooth 5.4

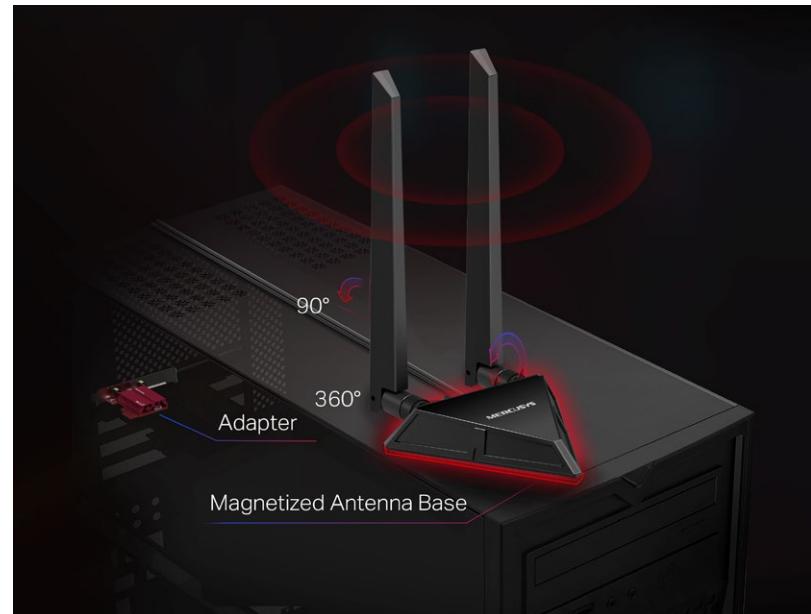
MA49BE equips your PC with the brand-new Bluetooth 5.4 for stable connections, excellent compatibility, and fast speeds, enabling simple, reliable pairing for Bluetooth devices.[§]



// Features

Broader Coverage

The magnetized antenna base with two high-performance omni-directional antennas ensures stronger signal transmissions and reception for a faster, smoother online experience from farther away.



Overall Security Protection

The latest security standard, WPA3, provides improved comprehensive Wi-Fi protection to defend your devices and private information against brute-force attacks.[△]



// Specifications

Wireless

Wireless Standards

IEEE 802.11 ax/be 6 GHz
IEEE 802.11 a/n/ac/ax/be 5 GHz
IEEE 802.11 b/g/n/ax/be 2.4 GHz

Signal Rate

5765 Mbps on 6 GHz
2882 Mbps on 5 GHz
688 Mbps on 2.4 GHz

Reception Sensitivity

6 GHz:
11be EHT320 MCS0: -83 dBm
11be EHT320 MCS11: -52 dBm
5 GHz:
11a 20M 6Mbps: -95 dBm
11a 20M 54Mbps: -77 dBm
11be EHT160 MCS0: -86 dBm
11be EHT160 MCS11: -55 dBm

2.4 GHz:
11g 20M 6Mbps: -94 dBm
11g 20M 54Mbps: -77 dBm
11be EHT40 MCS0: -92 dBm
11be EHT40 MCS11: -61 dBm

Wireless Security
WPA-PSK/WPA2-PSK/WPA3-SAE[§]

Hardware

Antennas

2× High-Performance
Omni-Directional Antennas

Dimensions

120.8 × 80.2 × 21.5 mm
(4.76 × 3.16 × 0.85 inches)

Others

Environment

Operating Temperature: 0°C~40°C (32°F~104°F)
Operating Humidity: 10%~90% Non-Condensing
Storage Humidity: 5%~90% Non-Condensing

System Requirements

Compatible with Intel-based Windows 11/10 (64-bit)
only. Does not support AMD platforms.[▲]

NOTE: Currently, the 6 GHz band is only available on Windows 11.

Package Contents

BE9300 Wi-Fi 7 Bluetooth 5.4 PCIe Adapter (MA49BE)
Magnetized Antenna Base with 1m RF Cable
2× High-Performance Antennas
Bluetooth Header Cable
Low-Profile Bracket
Quick Installation Guide
Resource CD

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[†]Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and number of connected devices are not guaranteed and will vary as a result of network conditions, AP limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and AP location.

[#]Use of Wi-Fi 7(802.11be), Wi-Fi 6E/6(802.11ax), and features including 4K-QAM, Multi-RUs, 320 MHz Bandwidth, OFDMA, and MU-MIMO requires APs to also support the corresponding features. 320 MHz channels may not all be available in the 5 GHz or 6 GHz band in some regions/countries due to regulatory restrictions.

[§]Functionality of MA49BE, such as Bluetooth 5.4, may be restricted on some computing systems and platforms. Please strive to update the device's driver for feature compatibility.

[▲]Use of WPA3 requires APs to also support WPA3.

^{*}Use of MLO requires your router or APs to support the Wi-Fi 7 standard with MLO enabled. Your Windows 11 operating system must also be updated to version 24H2 or later.