

**Wi-Fi 6**

# AX1800 Wi-Fi 6 Bluetooth 5.4 PCIe Adapter

Model: MA70XE

## // Highlights

- 1201 Mbps + 574 Mbps Dual-Band Wi-Fi†
- Powerful Wi-Fi 6 Chipset
- Fixed High-Performance Antennas
- Armed with Bluetooth 5.4
- WPA3 for Overall Security Protection\*



## // Features

### Upgrade Your PC to Wi-Fi 6

Wi-Fi 6 features 1024-QAM, OFDMA, and MU-MIMO, delivering faster, more efficient, and reliable data transmissions to meet the demand for high-performance wireless experiences.†

802.11ax Wi-Fi 6, 5 GHz

1201 Mbps

802.11ac Wi-Fi 5, 5 GHz

867 Mbps

**1.4×**  
**FASTER<sup>‡</sup>**



### Boost Wireless Range

Two high-performance antennas reach your router from farther away with more precise directional range, sustaining faster and more stable wireless connections.

### Super Stable Bluetooth 5.4

MA70XE upgrades your PC with cutting-edge Bluetooth 5.4, designed for enhanced stability, broader compatibility, and faster transmission speeds. Simply connect your Bluetooth devices to your computer and enjoy with ease.\*\*



### 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

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#### Wireless Standards

Compatible with 11ax/ac/a/b/g/n Wi-Fi standards†

#### Signal Rate

1201 Mbps on 5 GHz

574 Mbps on 2.4 GHz

#### EIRP

5 GHz: 20dBm(FCC) / 15dBm(CE) (EIRP)

2.4 GHz: 20dBm(FCC) / 16dBm(CE) (EIRP)

#### Reception Sensitivity

5 GHz:

11ax HE80 MCS0: -90 dBm

11ax HE80 MCS11: -59 dBm

11a 54Mbps: -77 dBm

11ac VHT80 MCS0: -92dBm

11ac VHT80 MCS9: -64dBm

2.4 GHz:

11ax HE40 MCS0: -91 dBm

11ax HE40 MCS11: -60 dBm

11g 54Mbps: -76 dBm

11n HT40 MCS7: -72dBm

### Hardware

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#### Antennas

2× Fixed High-Performance

Omni-Directional Antennas

#### Dimensions

226.3 × 120.8 × 21.5 mm

(8.9 × 4.8 × 0.85 in)

### Software

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#### Working Mode

Infrastructure mode

#### Wireless Security

WEP, WPA/WPA2/WPA3, WPA-PSK/WPA2-PSK\*

## // Specifications

### Others

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#### Environment

Operating Temperature: 0°C~40°C (32°F~104°F)

Operating Humidity: 10%~90% Non-Condensing

Storage Humidity: 5%~90% Non-Condensing

#### Package Contents

AX1800 Wi-Fi 6 Bluetooth 5.4 PCIe Adapter (MA70XE)

Bluetooth Header Cable

Quick Installation Guide

Resource CD

#### Certification

FCC, CE, RoHS

#### System Requirements

Windows 11/10 (64-bit)<sup>Δ</sup>

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<sup>1</sup>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.

<sup>†</sup>Use of Wi-Fi 6 and features including OFDMA, MU-MIMO, 1024-QAM, or HE160 requires APs to also support the corresponding features.

<sup>Δ</sup>Functionality of MA70XE may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.

<sup>§</sup>802.11ax enables 1201 Mbps maximum theoretical data rates on 5 GHz, 1.4× faster than 802.11ac (867 Mbps on 5 GHz) and nearly 2.7× faster than baseline 1×1 ac Wi-Fi (433 Mbps on 5 GHz) as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.

<sup>\*</sup>Use of WPA3 requires APs to also support the corresponding feature.

<sup>\*\*</sup>Several new features were introduced in the Bluetooth Core Specifications 5.0, 5.3, and 5.4, including 2× faster speed and 4× broader coverage compared with Bluetooth 4.2.