AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter

Model: MA80XE

Highlights

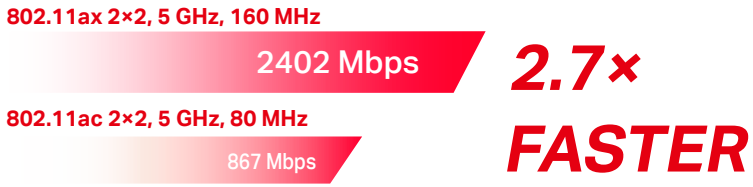
- Next-Gen Dual Band Speed
- Intel® Wi-Fi 6 Chipset
- Extends Your Wi-Fi into the 5 GHz Band
- Armed with Bluetooth 5.2
- Supported operating system: Windows 10, 11 (64 bit)

Windows Compatible

Features

Upgrade Your PC to Wi-Fi 6

The latest Wi-Fi 6 implements 160 MHz bandwidth and 1024 QAM designed to deliver faster, more efficient and reliable data transmissions, satisfying the demand for a high-performance wireless experience.‡



Bluetooth 5.2 Supported

MA80XE makes your PC Bluetooth-capable with ultra-fast Bluetooth 5.2 which achieves more stable connection, farther range and faster transmission speeds than Bluetooth 4. Just connect your Bluetooth devices to your computer and enjoy with ease.***

Stream Without Lag

By combining the Intel® Wi-Fi 6 Chipset, OFDMA, and MU-MIMO, MA80XE reduces latency by up to 75%. Game online, watch 4K videos, and crank up everything to the highest settings without lag.*

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.

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.**

Bluetooth 5.2

MU-MIMO

Backwards Compatibility

Strong Chipest

WPA3 Security

Specifications

Wireless

Wireless Standards
IEEE 802.11 a/ac/ax 5 GHz
IEEE 802.11 b/g/n/ax 2.4 GHz

Signal Rate
2402 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

Antennas
2× Fixed High-Performance
Omni-Directional Antennas

Dimensions
8.9 × 4.8 × 0.85 in
(226.3 × 120.8× 21.5 mm)

Software

Working Mode
Infrastructure mode

Wireless Security
WPA-PSK/WPA2-PSK/WPA3-SAE**

Specifications

Others

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

AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter (MA80XE)

Bluetooth Header Cable

Quick Installation Guide

Resource CD

Certification

FCC, CE, RoHS

System Requirements

Supported operating systems include Windows 10, 11(64-bit)[△]

[†]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 6 (802.11ax), and features including OFDMA, MU-MIMO, HE160, and 1024-QAM require APs to also support the corresponding features.
[§]802.11ax 2×2 160 MHz enables 2402 Mbps maximum theoretical data rates, 2.7× faster than standard 802.11ac 2×2 80 MHz (867 Mbps) and nearly 6× faster than baseline 1×1 ac Wi-Fi (433 Mbps) as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.
[△]Functionality of MA80XE may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.
*Up to 75% lower latency" is based on Intel simulation data of 802.11ax with and without OFDMA using 9 clients. Average latency without OFDMA is 36 ms, with OFDMA average latency is reduced to 7.6 ms. Latency improvement requires that the AP and all clients support OFDMA.
**Use of WPA3™ requires APs to also support the corresponding feature.
***Several new features are introduced in the Bluetooth Core Specification Release, including 2× faster speed and 4× broader coverage compared with Bluetooth 4.