

**Wi-Fi 7**

# BE6500 Wi-Fi 7 Bluetooth PCIe Adapter

Model: MA37BE

## // Highlights

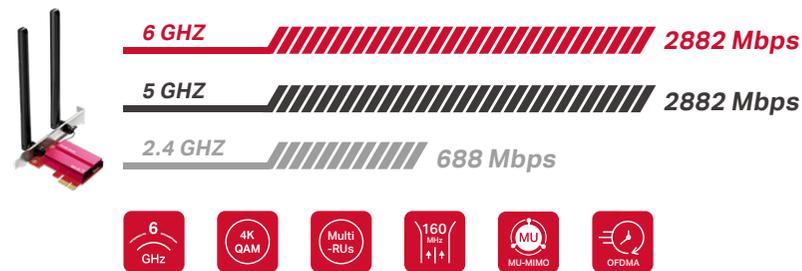
- Amazing 2882 Mbps (6 GHz) + 2882 Mbps (5 GHz) + 688 Mbps (2.4 GHz) Tri-Band Wi-Fi<sup>†</sup>
- Upgrade Your PC with Cutting-Edge Wi-Fi 7 Technology<sup>‡</sup>
- Bluetooth 5.4 Enhances Reliability and Compatibility<sup>§</sup>
- High-Performance Omni-Directional Antennas
- WPA3 for Overall Security Protection<sup>^</sup>



## // Features

### Amazing 6.5 Gbps Tri-Band Wi-Fi

Wi-Fi 7 takes full advantage of the 6 GHz band, with 4K-QAM and Multi-RUs, improving Wi-Fi speeds to 6.5 Gbps.<sup>†</sup> MA37BE arms your PC with cutting-edge Wi-Fi 7 technology, unlocking your Wi-Fi 7 router's full potential. Experience unlimited 8K streaming and lightning-fast downloading.<sup>‡</sup>



### Super Stable Bluetooth 5.4

MA37BE equips your PC with the brand-new Bluetooth 5.4, delivering stable connections, excellent compatibility, and fast speeds. Enjoy the simplicity of connecting your Bluetooth devices to your computer.<sup>§</sup>



### Broader Coverage

Two high-performance omni-directional antennas ensure stronger signal transmissions and reception, offering a fast, smooth 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.<sup>^</sup>

## // 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

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

#### Reception Sensitivity

6 GHz:	2.4 GHz:
11ax HE160 MCS0: -86 dBm	11ax HE40 MCS0: -91 dBm
11ax HE160 MCS11: -56 dBm	11ax HE40 MCS11: -60 dBm
5 GHz:	11g 54Mbps: -76 dBm
11ax HE80 MCS0: -90 dBm	11n HT40 MCS7: -72dBm
11ax HE80 MCS11: -59 dBm	
11a 54Mbps: -77 dBm	
11ac VHT80 MCS0: -92dBm	
11ac VHT80 MCS9: -64dBm	

#### Wireless Security

WPA-PSK/WPA2-PSK/WPA3-SAE

### Hardware

---

#### Antennas

2× Fixed High-Performance  
Omni-Directional Antennas

#### Dimensions

228 × 120.8 × 21.5 mm  
(9.0 × 4.8 × 0.85 in)

### 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 Windows 11(64-bit)

#### Package Contents

BE6500 Wi-Fi 7 Bluetooth 5.4 PCIe Adapter (MA37BE)  
Bluetooth Header Cable  
Quick Installation Guide  
Resource CD

Specifications are subject to change without notice. All brands and product names are trademarks or registered trademarks of their respective holders. Copyright © 2025 MERCUSYS. All rights reserved.

†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, 160 MHz Bandwidth, OFDMA, and MU-MIMO requires APs to also support the corresponding features. 160 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 MA37BE, such as Bluetooth 5.4, may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.

ΔUse of WPA3 requires APs to also support WPA3.