

# BE6500 Wi-Fi 7 USB Adapter

**AE65U**

## Key Features

- BE6500 speeds up to 6.5 Gbps (6 GHz 2882 Mbps, 5 GHz 2882 Mbps, and 2.4 GHz 688 Mbps)<sup>1</sup>
- Tri-Band Wi-Fi enhances performance by reducing congestion and interference in device-dense environments
- 4096-QAM significantly increases data throughput and capacity to more than double that of Wi-Fi 6
- Multi-Link Operation (MLO) technology support for improved latency and network reliability, and reduced interference
- Provides the latest WPA3 encryption for network security
- Backwards compatibility to work with your existing wireless devices
- Auto installation driver for Windows 11/10 operating systems



## User Benefits



### Ultra-Fast Connections

The latest Wi-Fi 7 technology enables real-time applications with high bandwidth and data rates



### Tri-Band Connectivity

2.4GHz, 5GHz, and 6 GHz Wi-Fi bands offer flexible connectivity and enhanced performance across various devices



### Multi-Link Operation MLO

Multi-Link Operation (MLO) significantly enhances wireless resiliency, throughput, and latency reduction



### WPA3™ Encryption

Offers the latest Wi-Fi security for more protection and safer connections



### Backwards Compatible

Fully compatible with any Wi-Fi routers and gateways



### Plug & Install

Adapter comes with pre-loaded drivers for quick and simple installation



### Fast USB 3.0

Up to 10x the speed of USB 2.0 for improved data transfer efficiency



### Foldable Antenna

Wide-angle adjustable antenna for optimal signal reception and a cradle for flexible installation to your computer

# Technical Specifications

General	
Wireless Encryption	WPA3 WPA2
Standards	IEEE 802.11be/ax (6 GHz) IEEE 802.11be/ax/ac/n/a (5 GHz) IEEE 802.11be/ax/n/g/b (2.4 GHz)
Antenna Type	2 x External antennas
Supported System	
Operating System <sup>2</sup>	Windows 11 Windows 10
Interface <sup>3</sup>	USB 3.0 port
Physical	
Dimensions	86.57 x 36.2 x 17.08 mm (3.41 x 1.43 x 0.67 in)
Weight	21 g (0.74 oz)
Power	<ul style="list-style-type: none"><li>Power consumption:<ul style="list-style-type: none"><li>Standby mode: 125 mA</li><li>Operating mode: 490 mA</li></ul></li><li>Operating voltage: 5V DC+/-10%</li></ul>
Operating Temperature	0 to 40 °C (32 to 104 °F)
Storage Temperature	-20 to 75° C (-4 to 167° F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Certifications	FCC Class B CE IC
Ordering Information	
AE65U	BE6500 Wi-Fi 7 USB Adapter
Package Contents	BE6500 Wi-Fi 7 USB Adapter Adapter Cradle Quick Installation Guide

1. Maximum wireless signal rate derived from IEEE standard 802.11be/ax/ac/n/g/b/a specifications. Actual performances may vary due to settings, cabling, temperature, network configuration, interface, device compatibility, environmental and on-site conditions, and other similar factors. References to power capability, signal or processing speed, signal range or distance, data encryption, storage capacity, display properties, or other performance metrics are based on optimal conditions derived from industry standards and provided for informational purposes only.

2. The use of the 6 GHz band for Wi-Fi 7 requires support from the Windows 11 operating system. Wi-Fi 7 functionality is available on Windows 11 version 24H2 or later.

3. Using a USB 2.0 or 1.1 port will affect device performance. USB 3.0 port or higher recommended.

4. Specifications may be subject to change without prior notice.

