

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)¹
- 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



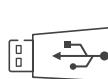
Backwards Compatible

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 ² | Windows 11 Windows 10 |
| Interface ³ | 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"> Power consumption: <ul style="list-style-type: none"> Standby mode: 125 mA Operating mode: 490 mA Operating voltage: 5V DC±10% |
| 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.