

BE6500 Mini Wi-Fi 7 USB Adapter

AE65UC

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 boosts data throughput and capacity over Wi-Fi 6
- Multi-Link Operation (MLO) technology support for improved latency and network reliability, and reduced interference
- The latest WPA3 encryption offers advanced privacy and security, providing the highest level of network protection
- Backwards compatibility to work with your existing wireless devices.
- Auto installation driver for Windows 11/10 operating systems

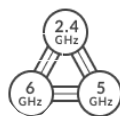


User Benefits



Ultra-Fast Connections

Upgrade to Wi-Fi 7 for faster, more reliable connections at home and in the office



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

Optimize multiple Wi-Fi links for better experience with 8K/4K streaming and multi-user gaming



Plug & Install

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



Backwards Compatible

Fully compatible with any Wi-Fi routers and gateways



WPA3™ Encryption

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



Fast USB 3.0

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



Compact Design

Easy to carry compact design for travel convenience

Technical Specifications

General	
Wi-Fi Data Rate ^{1,2}	• 2.4 GHz up to 688 Mbps • 5 GHz up to 2882 Mbps • 6 GHz up to 2882 Mbps
IEEE Standard	• 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)
Wireless Encryption	• WPA3 • WPA2
Antenna Type	2 x Tri-Band Internal Antennas (3dBi)
Supported System	
Operating System ²	• Windows 11 • Windows 10
Interface ³	USB 3.0 Type-A
Physical	
Hardware version	B1
Dimensions	56.00 x 25.00 x 11.00 mm (2.20 x 0.98 x 0.43 in)
Weight	14.3 g (0.50 oz)
Power	• Max. power consumption: 4W • Operating voltage: DC +5V
Operating Temperature	0 to 40 °C (32 to 104 °F)
Storage Temperature	-20 to 65 °C (-4 to 149 °F)
Operating Humidity	10% to 95% non-condensing
Storage Humidity	5% to 95% non-condensing
Certifications	CE
Ordering Information	
AE65UC	BE6500 Mini Wi-Fi 7 USB Adapter
Package Contents	• BE6500 Mini Wi-Fi 7 USB Adapter • Quick Installation Guide

1. Maximum wireless signal rate derived from IEEE standard 802.11 be/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.