

Product Highlights

- Ultra-fast Tri-band Wi-Fi 7 up to 6.5 Gbps
- Tri-band Wireless 2.4 GHz, 5 GHz and 6 GHz
- Multi-Link Operation (MLO)
- Lower Latency Gameplay, OFDMA and MU-MIMO
- WPA3 encryption
- Bluetooth 5.4
- Includes both standard and low-profile brackets



DWA-BE65/PC

BE6500 Wi-Fi 7 Bluetooth 5.4 PCIe Adapter

Features

Ultra-Fast Tri-Band Wi-Fi 7

Experience next-generation Wi-Fi 7 performance with combined speeds of up to 6.5 Gbps across the 6 GHz, 5 GHz, and 2.4 GHz bands (2882 Mbps + 2882 Mbps + 688 Mbps).

Wi-Fi 7 Standard with Multi-Link Operation (MLO)

Leverage the full potential of the 6 GHz spectrum and Wi-Fi 7 technology, including Multi-Link Operation (MLO), which allows simultaneous data transmission across multiple bands for higher throughput, lower latency, and more reliable connections.

Bluetooth 5.4

Enjoy enhanced security, stability, and performance with the latest Bluetooth 5.4 technology, offering improvements over Bluetooth 5.3.

Extended Wireless Coverage

Two high-gain antennas with signal-boosting design expand Wi-Fi coverage, providing strong and stable connectivity even at longer distances.

Advanced WPA3 Security

Safeguard your wireless connection with the latest WPA3 encryption, ensuring stronger protection for your data against unauthorized access.

The DWA-BE65/PC is a Wi-Fi 7 & Bluetooth 5.4 PCIe adapter, which delivers a great Wi-Fi performance by adding Wi-Fi 7 technologies to your computer. Upgrade your desktop PC in seconds to Wi-Fi 7 capabilities and open up a new world of lag-free 4K streaming, low-latency gaming and breakneck download speeds.

The multi-angle adjustable high-gain antennas combine with Beamforming to concentrate Wi-Fi signals towards your router for better reception and reliable connections from far away. Experience blazing-fast data transfers of up to 6.5Gbps with PCIe port.

Wi-Fi 7 unlocks the full potential of the 6 GHz band, providing congestion-free channels exclusive to your desktop. Enhanced by 4K-QAM and Multi-RUs, delivers astonishing transmission efficiency, facilitating instant multi-stream media playback and massive online games. Two powerful signal-boosting, high-performance antennas ensure stronger signal transmissions and reception to greatly extend existing Wi-Fi coverage, offering a fast, smooth online experience from farther away. Cutting-edge Bluetooth 5.4 offers enhanced reliability and security, ensuring seamless interoperability with game controllers, keyboards, and more.

The newly upgraded BLE (Bluetooth Low Energy) significantly reduces power consumption. In addition to the full-height bracket, a low-profile bracket is also provided for mini tower computer cases. These customized options give you the flexibility to find a bracket that fits your board design perfectly.

Technical Specifications			
General			
Major Chipset	REALTEK RTL8922AE-CG		
Standard	802.11a/b/g/n/ax/be & Bluetooth 5.4		
Wi-Fi Rates	6 GHz: 11be: Up to 2882Mbps(dynamic) 11ax: Up to 2402Mbps(dynamic)	5 GHz: 11be: Up to 2882 Mbps(dynamic) 11ax: Up to 2402 Mbps(dynamic) 11ac: Up to 1732 Mbps(dynamic) 11n: Up to 300 Mbps(dynamic) 11a: Up to 54 Mbps(dynamic)	2.4 GHz: 11be: Up to 688 Mbps(dynamic) 11ax: Up to 574 Mbps(dynamic) 11n: Up to 300 Mbps(dynamic) 11g: Up to 54 Mbps(dynamic) 11b: Up to 11 Mbps(dynamic)
Interface	PCI EXPRESS x1,x4,x8,and x16 slot		
Antenna	2 x External Antennas (Tri-band)		
Bandwidth	20MHz/40MHz/80MHz/160MHz		
Modulation Method	OFDM with BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation		
Operation Mode	Infrastructure mode		
Operation Range	Up to 150 meters in open space		
OS Support	Windows 11(64-bit) only (CD installation)		
Security	WPA/WPA2/WPA3, WPA-PSK/WPA2-PSK		
Operating Temperature	0 to 40 °C (32 to 104 °F)		
Storage Temperature	-20 to 70 °C (-4 to 158 °F)		
Humidity	10% to 90% (non-condensing)		
Certification	CE		
Package Contents	PCIe Wi-Fi 7 Adapter, 2x High-Performance Tri-Band Antennas, Low-Profile Bracket Bluetooth Header Cable, Quick Installation Guide, Resource CD, Warranty card		
Ordering Information			
DWA-BE65/PC	BE6500 Wi-Fi 7 Bluetooth 5.4 PCIe Adapter		