



Tri-Band USB3.0 Adapter BE6500

Tri-Band Wi-Fi 7 | USB3.0 | Data Rates up to 2880 Mbps

EW-7822UBE



Comtrend's EW-7822UBE is a cutting-edge USB 3.0 Wi-Fi adapter featuring Wi-Fi 7 technology, delivering ultra-fast and reliable wireless connectivity with speeds up to 688Mbps on 2.4GHz and 2880Mbps on 5GHz/6GHz bands. Fully backward compatible with Wi-Fi 6/6E, this tri-band adapter supports advanced features like Multi-Link Operation, eMLSR STA role, and 20MHz to 160MHz bandwidth for high-performance networking. With support for the latest WPA3 security protocols and compatibility with Windows 10/11, this compact device ensures seamless, secure, and future-proof wireless experiences for demanding applications.

KEY FEATURES

- Blazing-fast speeds and reliable connectivity with the latest Wi-Fi 7 technology
- Fully compatible with previous Wi-Fi standards, including Wi-Fi 6 and 6E
- Pre-loaded Windows 10/11 drivers ensure seamless installation and setup
- Multi-Link Operation with eMLSR STA functionality for enhanced performance
- Operates across 20MHz, 40MHz, 80MHz, & 160MHz bandwidths on 5GHz & 6GHz frequencies
- Delivers advanced security with support for WPA2, WPA3 Personal, and IEEE 802.1x protocols

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SPECIFICATIONS

USB Type	USB 3.0 Type A
Frequency Band	2.4GHz: 2.4000~2.4835GHz / 5GHz: 5.150~5.825GHz / 6GHz: 5.925 to 7.125 GHz (subject to local regulations)
Data Rate	2.4GHz: 11be: Up to 688Mbps 11ax: Up to 574Mbps 11n: Up to 400Mbps 11g: Up to 54Mbps 11b: Up to 11Mbps 5GHz: 11be: Up to 2882Mbps 11ax: Up to 2402Mbps 11ac: Up to 1732Mbps 11n: Up to 400Mbps 11a: Up to 54Mbps 6GHz: 11be: Up to 2882Mbps 11ax: Up to 2402Mbps
	2.4GHz: 11b(11M): 19 dBm, 11g(54M): 20dBm 11n(20MHz, MCS8): 20dBm, 11ac(40MHz, MCS9): 19dBm, 11ax(20/40MHz, MCS11): 18dBm 11be(20Mhz, MCS0): 21dBm, 11b(40Mhz, MCS13):16dBm 5GHz: 11a(54M): 17dBm, 11n(20/40MHz, MCS7): 17dBm, 11ac(80MHz, MCS9): 16dBm, 11ax(80MHz, MCS11): 15 dBm 11be(80Mhz, MCS0): 21dBm, 11be(160Mhz, MCS13):13 dBm 6GHz: 11ax(80MHz, MCS11): 15dBm, 11ax(160Mhz, MSC0): 17dBm 11be(80Mhz, MSC0):21dBm, 11be(160Mhz, MCS13): 12dBm
Features	Supports 4096QAM Supports eMLSR STA Role on 2.4GHz + 5GHz or 6GHz Supports Puncture / Multi RU Supports UL/DL MU-MIMO and UL/DL OFDMA Supports WPA/WPA2/WPA3 Personal, WPA3 Enterprise
Antenna	Internal PIFA Antennas x2 (2T2R)
Drivers	Windows 10/11, Pre-loaded
Dimensions	15(H) x 29(W) x 103(D) mm
Temperature	Operating: 32~104°F (0~40°C) , Storage: -4~140°F (-20~60°C)
Humidity	Operating: 0~90% (NonCondensing), Storage: Max. 95% (NonCondensing)

COMTREND

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