

WIFI 7 BE6500 Wireless USB Adapter

802.11be/ax/ac/a/b/g/n

Model: EP-BE1703S / EP-BE1703



KEY FEATURES

- Tri-Band 6500Mbps wireless transmission rate
- Dual band frequency:
 - 2.4GHz 688Mbps
 - 5.8GHz 2882Mbps
 - 6 GHz 2882Mbps
- Driver Free/non-driver free
- Built-in FEM (PA + LNA) module, creates stronger signal and wider signal receiving range.
- 4096-QAM high data rate Modulation delivers powerful, continuous Wi-Fi to fully unlock the potential of Wi-Fi 7 router.
- Supports Windows Windows10 (32/64bits), Windows 11(32/64bits).
- Seamlessly compatible with 802.11be/ax/ac/a/b/g/n devices

Specifications

Chipset	Realtek RTL8912AU
Interface	USB3.2 Hi-Speed connector
Wireless Speed	2.4GHz: Up to 688Mbps / 5GHz: Up to 2882Mbps / 6GHz: Up to 2882Mbps
Frequency Range	2.4GHz& 5 GHz&6 GHZ
Wireless TransmitPower	20dBm(MAX EIRP)
Modulation Technique	DSSS / DBPSK / DQPSK / CCK / OFDM / OFDMA / BPSK / QPSK / 16-QAM / 64-QAM / 256-QAM / 1024-QAMA/ 4096-QAMA
Wireless Security	64/128 bits WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES) /WPA3
Temperature Range	Operating: -20°C to 70°C, Storage: -40°C to 90°C
Humidity	Operating: 5% to 95% (non-condensing), Storage: Max. 90% (non-condensing)
Support Operating System	Windows Win10 / Win11
Dimensions (H x W x D)	158x28.5x14.5mm

RF Performance Table for 2.4GHz&5GHz& 6GHz

	Data Rate	TXPower	Tolerance
2.4GHz 802.11n 40MHz	MCS0	20dBm	±2dB
	MCS7	18dBm	±2dB
2.4GHz 802.11ax 40MHz	MCS0	20dBm	±2dB
	MCS11	18dBm	±2dB
2.4GHz 802.11be 40MHz	MCS0	20dBm	±2dB
	MCS13	16dBm	±2dB
5.8GHz 802.11ac 160MHz	MCS0	17dBm	±1.5dB
	MCS9	15dBm	±1.5dB
5.8GHz 802.11ax 160MHz	MCS0	16dBm	±1.5dB
	MCS11	14dBm	±1.5dB
5.8GHz 802.11be 160MHz	MCS0	16dBm	±1.5dB
	MCS13	13dBm	±1.5dB
6GHz 802.11ax 160MHz	MCS0	15dBm	±1.5dB
	MCS11	13dBm	±1.5dB
6GHz 802.11be 160MHz	MCS0	15dBm	±1.5dB
	MCS13	12dBm	±1.5dB

	Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11n 40MHz	MCS0	-92dBm	±2dB
	MCS7	-73dBm	±2dB
2.4GHz 802.11ax 40MHz	MCS0	-91dBm	±2dB
	MCS11	-63dBm	±2dB
2.4GHz 802.11be 40MHz	MCS0	-91dBm	±2dB
	MCS13	-51dBm	±2dB
5.8GHz 802.11ac 160MHz	MCS0	-85dBm	±2dB
	MCS9	-60dBm	±2dB
5.8GHz 802.11ax 160MHz	MCS0	-85dBm	±2dB
	MCS11	-57dBm	±2dB
5.8GHz 802.11be 160MHz	MCS0	-85dBm	±2dB
	MCS13	-50dBm	±2dB
6GHz 802.11ax 160MHz	MCS0	-85dBm -	±2dB
	MCS11	-56dBm	±2dB
6GHz 802.11be 160MHz	MCS0	-85dBm -	±2dB
	MCS13	-50dBm	±2dB

Dimensional Drawing

