Wi-Fi 7 USB Adapter Specification
Model: EP-BE1679

1. Product Overview

The EP-BE1679 is a high-performance Wi-Fi 7 USB adapter featuring the MediaTek MT7925AUN chipset with dual internal antennas (2T2R) and tri-band support (2.4 / 5 / 6 GHz). Its compact, thermally optimized industrial design delivers low-latency, high-throughput wireless performance for gaming, 4K/8K streaming, video conferencing, and professional applications.

2. Key Features

- Tri-Band Wi-Fi 7 (2.4 / 5 / 6 GHz) with aggregate speeds up to 6.5 Gbps (BE6500)
- Automatic band selection for optimal signal and throughput
- MediaTek MT7925AUN Wi-Fi 7 chipset
- Dual internal high-gain antennas (2T2R) for enhanced coverage and stability
- Supports MU-MIMO, OFDMA (DL/UL), Beamforming+, 4096-QAM
- Security: WPA3 / WPA2 / WPS2.0 / FIPS
- USB 3.0 Type-A interface (backward compatible with USB 2.0, SuperSpeed USB), plug-and-play
- Compact, thermally optimized industrial design with angular housing in metallic-gray finish
- Compatible with Wi-Fi 7 routers/APs for full Wi-Fi 7 performance

3. Technical Specifications

Chipset	MediaTek MT7925AUN
Wi-Fi Standard	IEEE 802.11a/b/g/n/ac/ax/be (Wi-Fi 7)
Frequency Band	2.4GHz / 5GHz / 6GHz
Wi-Fi Speed (Max)	BE6500 Mbps (2.4 GHz: 688 / 5 GHz: 2882 / 6 GHz: 2882)

Antenna Type	Internal 3 dBi Dual Antenna (2T2R)
Wireless Transmit Power	20 dBm (MAX EIRP)
Modulation	BPSK, QPSK, 16/64/256/1024/4096-QAM
Channel Bandwidth	20 / 40 / 80 / 160 MHz
Interface	USB 3.0 Type-A (backward compatible with USB 2.0)
Security	WPA3 / WPA2 / WPS2.0 / FIPS
Operating Voltage	DC 5V via USB
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Dimensions	97mm (L) x 35mm (W) x 13mm (H)
Supported OS	Requires PC with Windows 11 and above (Wi-Fi 7 features & 6 GHz require Windows 11). Not compatible with Windows 10 or earlier. Linux Kernel 6.7 + supports plug-and-play.