

EP-9718 PCIe Wireless Adapter Specification Sheet

1. Product Overview

EP-9718 is a high-performance PCIe WiFi 6E (802.11ax) + Bluetooth 5.3 wireless network adapter based on Realtek RTL8852CE chipset platform. It supports tri-band connectivity (2.4GHz, 5GHz, and 6GHz), delivering high throughput, low latency, and stable wireless performance for desktop PCs, industrial systems, and embedded applications.



2. Key Features

- WiFi 6E (802.11ax) tri-band: 2.4GHz / 5GHz / 6GHz
- 2x2 MU-MIMO technology
- OFDMA + MU-MIMO support
- 20/40/80/160 MHz channel bandwidth
- Up to AXE5400 class throughput
- Bluetooth 5.3 (LE / BR / EDR)
- PCIe interface for WiFi
- USB 2.0 interface for Bluetooth
- Low latency, high efficiency wireless performance

3. Technical Specifications

Item	Specification
Interface	PCIe x1 (Half-size)
Dimension	30mm × 50.95mm
Wireless Standard	IEEE 802.11a/b/g/n/ac/ax/be (Wi-Fi 7)
Bluetooth Version	Bluetooth 5.3 + BLE
Frequency Band	2.4GHz / 5GHz / 6GHz

Data Rate	Up to 5.4Gbps (6GHz: 2402Mbps + 5GHz: 2402Mbps + 2.4GHz: 574Mbps)
Antenna	6 dBi high-gain antenna
Security	WPA3 / WPA2 / WPA / WEP
Supported OS	Windows 10 / 11 Linux Kernel 5.15+ supports plug-and-play.
Operating Temperature	-10°C ~ +70°C
Storage Temperature	-40°C ~ +90°C
Humidity	5% ~ 90% (non-condensing)

4. Application

Designed for desktop PCs, industrial computers, and servers, providing ultra-fast and reliable wireless connectivity for both consumer and industrial applications.

5. Advantages

- Optimized RF and baseband architecture for superior wireless performance and stability
- Intelligent MAC offload engine reduces host CPU load and improves efficiency
- Hardware data accelerators ensure stable throughput and energy efficiency
- Supports demanding applications with ultra-low latency and high reliability
- Compact module design suitable for space-constrained devices