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› [COMFAST](#) /

› COMFAST Wi-Fi7 BE6500 USB WiFi Adapter User Manual

COMFAST BE6500 (CF-987BE)

COMFAST Wi-Fi7 BE6500 USB WiFi Adapter User Manual

Model: BE6500 (CF-987BE)

1. INTRODUCTION

Thank you for choosing the COMFAST Wi-Fi7 BE6500 USB WiFi Adapter. This device is designed to provide ultra-fast, tri-band wireless connectivity for your PC, leveraging the latest Wi-Fi 7 (802.11be) standard. With support for 6GHz, 5GHz, and 2.4GHz frequencies, it delivers a combined speed of up to 6500 Mbps, making it ideal for demanding applications like 8K streaming and online gaming. This manual will guide you through the installation, operation, and troubleshooting of your new WiFi adapter.



Image 1.1: COMFAST Wi-Fi 7 Tri-band BE6500 USB Adapter (CF-987BE)

2. PACKAGE CONTENTS

Please check the package contents carefully. If any items are missing or damaged, contact your retailer.

- 1 x COMFAST Wi-Fi7 BE6500 USB WiFi Adapter (CF-987BE)
- 1 x Type-C to USB 3.0 Extension Cable
- 1 x Quick Installation Guide



Image 2.1: What's in the Box - COMFAST BE6500 USB WiFi Adapter, Extension Cable, and Quick Guide

3. KEY FEATURES

- **Ultra-Fast Tri-Band Transmission:** Supports 6GHz, 5GHz, and 2.4GHz frequencies, delivering a combined throughput of up to 6452 Mbps for seamless 8K streaming and online gaming.
- **Next-Generation Wi-Fi 7 Standard (802.11be):** Offers comprehensive performance enhancements, fully utilizing the 6GHz frequency band for high-bandwidth scenarios, surpassing Wi-Fi 6 capabilities.
- **MU-MIMO and OFDMA Technologies:** Enables simultaneous, low-latency transmission to multiple devices, optimizing network efficiency for smart homes and offices.
- **Advanced WPA3 Security & High-Gain Antennas:** Utilizes professional-grade encryption for network security. Features three 6dBi high-gain antennas to significantly improve signal reception quality and coverage range.
- **Universal Compatibility & USB 3.0 Interface:** Compatible with laptops, desktops, and gaming consoles. The USB 3.0 interface ensures full-speed operation, and integrated drivers support Windows 10 and Windows 11 operating systems.



Image 3.1: Tri-Band Connectivity and Speed Distribution



Image 3.2: MU-MIMO and OFDMA for Increased Efficiency

Sécurité Wi-Fi Avancée

Chiffrement robuste des mots de passe et défense renforcée contre les attaques par force brute, assurant une protection accrue pour votre réseau Wi-Fi domestique



Image 3.3: Uncompromising Transfer Speed with USB 3.0



Image 3.4: Advanced Network Security (WPA3)

4. SETUP AND INSTALLATION

4.1 Pre-installation Notes

This device includes integrated drivers. Before installation, please **uninstall any existing USB adapter drivers** from your computer to avoid conflicts. If you encounter any installation issues, please contact customer support.

4.2 Driver Installation for Windows 10/11

1. **Step 1:** Connect the adapter to an available USB 3.0 port on your computer.
2. **Step 2:** Open 'This PC' (or 'My Computer') and locate the 'CD Drive' (which represents the adapter's integrated driver).
3. **Step 3:** Double-click on the 'CD Drive' and follow the on-screen instructions to install the driver.
4. **Step 4:** Once the driver is installed, scan for available Wi-Fi networks and connect using your network security key.



Image 4.1: Easy Configuration for Windows 10/11 with Integrated Driver

4.3 Flexible Positioning

The included 1.2-meter Type-C to USB 3.0 extension cable allows for flexible positioning of the adapter. This helps in finding the optimal location for signal reception and avoiding interference, ensuring you capture the strongest possible multi-band gigabit speeds.

Positionnement Flexible pour S'adapter à Vos Besoins

Un câble USB 3.0 de 1,2 mètre permet de trouver facilement une place pour le CF-987BE dans votre espace de travail, et l'adaptateur peut être facilement attaché ou retiré de votre ordinateur selon les besoins.



Image 4.2: Flexible Positioning to Suit Your Needs

5. OPERATING MODES

The COMFAST BE6500 adapter supports two primary operating modes:

5.1 Receiver Mode (Client Mode)

In this mode, the adapter functions as a client, allowing your desktop or laptop to connect to an existing Wi-Fi network and access the internet. This is the most common use case for the adapter.

5.2 Access Point (AP) Mode

The adapter can also function as a soft Access Point, sharing your computer's wired internet connection wirelessly with other devices like smartphones or tablets. This mode requires your computer to have a wired internet connection.



Image 5.1: Receiver and Emitter Modes Combined Easily

5.3 Unleash Revolutionary Wi-Fi Performance

Experience unparalleled performance across various applications:

- **Gaming:** Enjoy ultra-low latency for real-time responsiveness.
- **Streaming:** Immerse yourself in perfect 4K/8K visuals and multichannel audio.
- **Video Conferencing:** Conduct video calls without any interruption.

Libérez des Performances Wi-Fi Révolutionnaires



Jeu

Nighthawk WiFi 7 débloque une latence ultra-faible pour une réactivité en temps réel



Streaming

Vivez des visuels 4K/8K parfaits et un audio multicanal immersif



Visioconférence

Passez des appels en visioconférence sans aucune interruption

Image 5.2: Unleash Revolutionary Wi-Fi Performance

6. SPECIFICATIONS

Brand	COMFAST
Model Number	CF-987BE
Hardware Interface	USB 3.0
Data Link Protocol	IEEE 802.11be (Wi-Fi 7)
Data Transfer Rate	Up to 6500 Mbps (Tri-Band)
Frequency Bands	6 GHz, 5 GHz, 2.4 GHz
Antenna Type	3 * 6dBi High-Gain Antennas (Integrated)
Security Protocol	WPA3
Compatible Operating Systems	Windows 10, Windows 11
Compatible Devices	Desktop Computers, Laptops, Gaming Consoles
Product Dimensions (L x W x H)	16.5 x 9.8 x 10.2 cm
Color	Black

7. MAINTENANCE

To ensure the longevity and optimal performance of your COMFAST Wi-Fi7 BE6500 USB WiFi Adapter, please follow these maintenance guidelines:

- **Keep Clean:** Regularly wipe the adapter with a soft, dry cloth to remove dust. Avoid using liquid cleaners or solvents.
- **Avoid Obstructions:** Ensure the adapter is placed in an open area, free from physical obstructions that could block the Wi-Fi signal.
- **Temperature Control:** Operate the device within normal room temperatures. Avoid exposing it to extreme heat or cold.
- **Proper Ventilation:** Do not cover the adapter or place it in enclosed spaces where airflow is restricted, as this can lead to overheating.
- **Handle with Care:** Avoid dropping or subjecting the adapter to strong impacts.

8. TROUBLESHOOTING

If you encounter issues with your COMFAST Wi-Fi7 BE6500 USB WiFi Adapter, please refer to the following common problems and solutions:

8.1 No Wi-Fi Connection / Adapter Not Detected

- **Check USB Port:** Ensure the adapter is securely plugged into a functioning USB 3.0 port. Try a different USB port.
- **Driver Installation:** Verify that the drivers are correctly installed. Re-run the installation process from the integrated CD Drive if necessary. Remember to uninstall any conflicting old drivers first.
- **Device Manager:** Check Device Manager in Windows to see if the adapter is listed without any error symbols (e.g., yellow exclamation mark). If there's an error, try updating or reinstalling the driver.
- **Restart Computer:** A simple restart can often resolve detection issues.

8.2 Slow Wi-Fi Speed / Unstable Connection

- **Signal Strength:** Ensure the adapter is positioned for optimal signal reception. Use the extension cable to place it away from the computer case or other obstructions.
- **Router Distance:** Move closer to your Wi-Fi router or access point.
- **Interference:** Keep the adapter away from devices that emit strong electromagnetic interference (e.g., microwaves, cordless phones, Bluetooth devices).
- **Router Settings:** Ensure your router supports Wi-Fi 7 (802.11be) and tri-band operation for best performance. Check if your router's firmware is up to date.
- **Band Selection:** Try connecting to the 5GHz or 6GHz band if available, as these typically offer higher speeds and less congestion than 2.4GHz.
- **Driver Update:** Check the COMFAST website for the latest drivers, although the adapter comes with integrated drivers, newer versions might be available.

8.3 Driver Installation Failed

- **Uninstall Old Drivers:** As mentioned in the setup section, conflicting drivers are a common cause. Ensure all previous wireless adapter drivers are uninstalled.
- **Antivirus/Firewall:** Temporarily disable your antivirus or firewall during installation, as they might block the driver setup. Remember to re-enable them afterward.

- **Administrator Rights:** Ensure you have administrator privileges on your Windows system to install drivers.

9. WARRANTY INFORMATION

The COMFAST Wi-Fi7 BE6500 USB WiFi Adapter comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or external factors.

Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or encounter issues not covered in this manual, please do not hesitate to contact COMFAST customer support. Our team will be happy to assist you.

- **Website:** Visit the official COMFAST website for FAQs, driver updates, and support resources.
- **Email:** Refer to your product packaging or the COMFAST website for customer service email addresses.