NEWFAST NF-P395

NEWFAST WiFi 6E PCIe Network Card NF-P395 Instruction Manual

Model: NF-P395

INTRODUCTION

Thank you for choosing the NEWFAST WiFi 6E PCIe Network Card. This card is designed to provide high-speed wireless connectivity and Bluetooth functionality for your desktop PC. Featuring the Intel AX210 chipset, it supports the latest WiFi 6E standard, offering tri-band operation (2.4GHz, 5.8GHz, and 6GHz) with speeds up to 5374Mbps. The integrated Bluetooth 5.3 ensures fast and reliable connections to your wireless peripherals. This manual will guide you through the installation process, operation, and provide troubleshooting tips.

Overview of the NEWFAST WiFi 6E PCIe Card's multi-performance features, including WiFi 6E standard, Bluetooth 5.3 upgrade, Tri-Band support (6GHz/5.8GHz/2.4GHz), 5374Mbps speed, WPA-PSK/WPA2-PSK/WPA3 security, OFDMA, MU-MIMO technology, and power saving capabilities.

WHAT'S IN THE BOX

Please check the package contents to ensure all items are present:

- 1 x NEWFAST WiFi 6E PCIe Network Card
- 1 x Multi-language Instruction Manual (this document)
- 1 x Bluetooth Cable
- 2 x 5dBi Antennas
- 2 x Screws

SPECIFICATIONS

Feature	Detail
Brand	NEWFAST
Model	NF-P395
Chipset	Intel AX210
Wireless Standard	WiFi 6E (IEEE 802.11ax)
Data Link Protocol	IEEE 802.11ac/a/b/g/n, IEEE 802.11ax
Frequency Bands	2.4GHz, 5.8GHz, 6GHz (Tri-Band)
Max Data Transfer Rate	5374 Mbps (2.4GHz: 574Mbps, 5.8GHz: 2400Mbps, 6GHz: 2400Mbps)
Bluetooth Version	Bluetooth 5.3
Hardware Interface	PCI-E X1, X4, X8, X16 (PCI slots not supported)
Antennas	2 x 5dBi External Antennas
Security Features	WPA-PSK/WPA2-PSK/WPA3
Supported OS	Windows 10 (64-bit), Windows 11 (64-bit)
Dimensions (Package)	19.9 x 11.9 x 3.4 cm
Item Weight	230 g
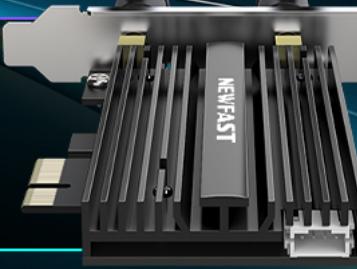
Detailed breakdown of WiFi 6E speeds across 6GHz, 5.8GHz, and 2.4GHz bands, highlighting the Intel AX210 chip and Bluetooth 5.3 capabilities.

SETUP INSTRUCTIONS

1. Hardware Installation

1. **Power Off Your PC:** Before starting, ensure your computer is completely powered off and unplugged from the power outlet.

2. **Open PC Case:** Remove the side panel of your computer case to access the motherboard.

3. **Locate a PCI-E Slot:** Find an available PCI-E X1, X4, X8, or X16 slot on your motherboard.**Note: Standard PCI slots are not compatible.**

4. **Insert the WiFi Card:** Carefully align the NEWFAST WiFi 6E PCIe card with the chosen PCI-E slot and press it firmly until it is securely seated.

5. **Secure the Card:** Use the provided screw to fasten the card's bracket to your PC case.

6. **Connect Bluetooth Cable:** Connect one end of the provided Bluetooth cable to the 9-pin USB header on the WiFi card and the other end to an available F_USB header on your motherboard. This connection is essential for Bluetooth functionality.

7. **Attach Antennas:** Screw the two 5dBi external antennas onto the connectors at the back of the WiFi card. Adjust their orientation for optimal signal reception.

8. **Close PC Case:** Replace the side panel of your computer case and reconnect the power cable.

Illustration of compatible PCI-E slots on a desktop motherboard.

Multi-Performance PCI-E

6E Standard di Trasmissione WiFi6E

Aggiornamento Bluetooth 5.3

6 Tri-Band 6G/ 5.8G/2.4G

5374Mbps

3 WPA-PSK/WPA2-PSK/WPA3

Tecnologia OFDMA

Tecnologia MU-MIMO

Potenza e Risparmio Energetico

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The NEWFAST WiFi 6E PCIe Card with its two external antennas.

2. Driver Installation

After hardware installation, power on your PC. You will need to install the drivers for both WiFi and Bluetooth functionality. Drivers are typically available on the manufacturer's website. If you do not have internet access, you may need to download them on another device and transfer them via USB.

1. **Download Drivers:** Visit the NEWFAST official website or the Intel support page for the AX210 chipset to download the latest WiFi and Bluetooth drivers for Windows 10 (64-bit) or Windows 11 (64-bit).

2. **Install WiFi Driver:** Locate the downloaded WiFi driver file (usually an executable .exe file) and run it. Follow the on-screen instructions to complete the installation.

3. **Install Bluetooth Driver:** Similarly, locate and run the Bluetooth driver file. Follow the installation wizard.

4. **Restart PC:** After installing both drivers, restart your computer to ensure all changes take effect.
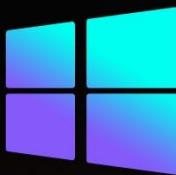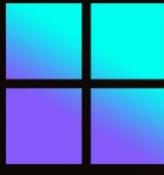
The WiFi card supports Windows 10 (64-bit) and Windows 11 (64-bit).

OPERATING INSTRUCTIONS

1. Connecting to a WiFi Network

1. **Access Network Settings:** On your Windows desktop, click the WiFi icon in the system tray (usually bottom-right corner).
2. **Select Network:** A list of available WiFi networks will appear. Select your desired network.
3. **Enter Password:** If prompted, enter the network security key (password) and click 'Connect'.
4. **Verify Connection:** Once connected, the WiFi icon will indicate an active connection. You can now browse the internet.

2. Using Bluetooth 5.3

Ensure the Bluetooth cable is correctly connected to your motherboard's F_USB header for Bluetooth functionality.

1. **Enable Bluetooth:** Go to Windows Settings > Devices > Bluetooth & other devices. Ensure Bluetooth is turned 'On'.

2. **Pair a Device:** Click 'Add Bluetooth or other device' and select 'Bluetooth'.

3. **Make Device Discoverable:** Put your Bluetooth device (e.g., headphones, mouse, controller) into pairing mode. Refer to your device's manual for specific instructions.

4. **Select and Connect:** Your PC will scan for nearby Bluetooth devices. Select your device from the list and follow any on-screen prompts to complete pairing.

The Bluetooth 5.3 feature allows connection to various peripherals with improved speed and range.

MAINTENANCE

The NEWFAST WiFi 6E PCIe Network Card is designed for reliable, long-term performance with minimal maintenance. Follow these guidelines:

- **Keep Drivers Updated:** Regularly check the NEWFAST or Intel website for the latest WiFi and Bluetooth drivers to ensure optimal performance and security.
- **Ensure Proper Airflow:** Make sure your PC case has adequate ventilation to prevent overheating, which can affect the card's performance. The card's aluminum heatsink is designed for efficient heat dissipation.
- **Clean Antennas:** Occasionally wipe the antennas with a soft, dry cloth to remove dust.

- **Avoid Physical Damage:** Handle the card with care during installation and avoid bending or stressing the antennas.

TROUBLESHOOTING

If you encounter issues with your NEWFAST WiFi 6E PCIe Network Card, refer to the following common problems and solutions:

- **No WiFi Connection:**

  - Ensure the card is properly seated in the PCI-E slot.
  - Verify that WiFi drivers are correctly installed and updated.
  - Check if the antennas are securely attached.
  - Confirm that your router is powered on and broadcasting a WiFi signal.
  - Try restarting your PC and router.

- **No Bluetooth Functionality:**

  - Ensure the Bluetooth cable is securely connected to both the WiFi card and the motherboard's F_USB header. This is crucial for Bluetooth.
  - Verify that Bluetooth drivers are correctly installed and updated.
  - Check Windows Bluetooth settings to ensure Bluetooth is enabled.
  - Try restarting your PC.

- **Slow WiFi Speeds:**

  - Ensure you are connected to a WiFi 6E compatible router for optimal speeds.
  - Check for interference from other electronic devices.
  - Adjust antenna orientation for better signal reception.
  - Update your router's firmware.
  - Ensure your PC is within a reasonable range of your WiFi router.

- **Device Not Detected:**

  - Double-check all physical connections, including the PCI-E slot and Bluetooth cable.
  - Ensure your operating system is Windows 10 (64-bit) or Windows 11 (64-bit).
  - Check Device Manager in Windows for any unknown devices or driver errors.

WARRANTY AND SUPPORT

NEWFAST products are designed for quality and reliability. For specific warranty information, please refer to the warranty card included with your product or visit the official NEWFAST website.
If you encounter any configuration issues, technical problems, or require further assistance, please do not hesitate to contact NEWFAST customer support. Our team is ready to help you.

- **Online Support:** Visit the NEWFAST official website for FAQs, driver downloads, and support contact information.
- **Email Support:** Refer to your product packaging or the official website for the customer support email address.