

CORN AX210 NGW

CORN WiFi 6E AX210 NGW Wireless Card Instruction Manual

Model: AX210 NGW

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and use of your CORN WiFi 6E AX210 NGW Wireless Card. This device is designed to enhance your computer's wireless connectivity with advanced Wi-Fi 6E and Bluetooth 5.3 technologies.

Key features include:

- **Wi-Fi 6E Technology:** Supports tri-band connectivity (2.4GHz, 5GHz, 6GHz) for extended range, high speed, and ultra-low latency.
- **Bluetooth 5.3:** Offers improved range, capacity, speed, and lower latency compared to previous Bluetooth versions.
- **WPA3 Network Security:** Provides enhanced security protocols, backward compatible with WPA2.
- **M.2 NGFF Compatibility:** Designed for motherboards with Intel CPUs and M.2 network slots (NGFF M2 2230 A/E key).
- **System Compatibility:** Supports Windows 10/11 64-bit operating systems.

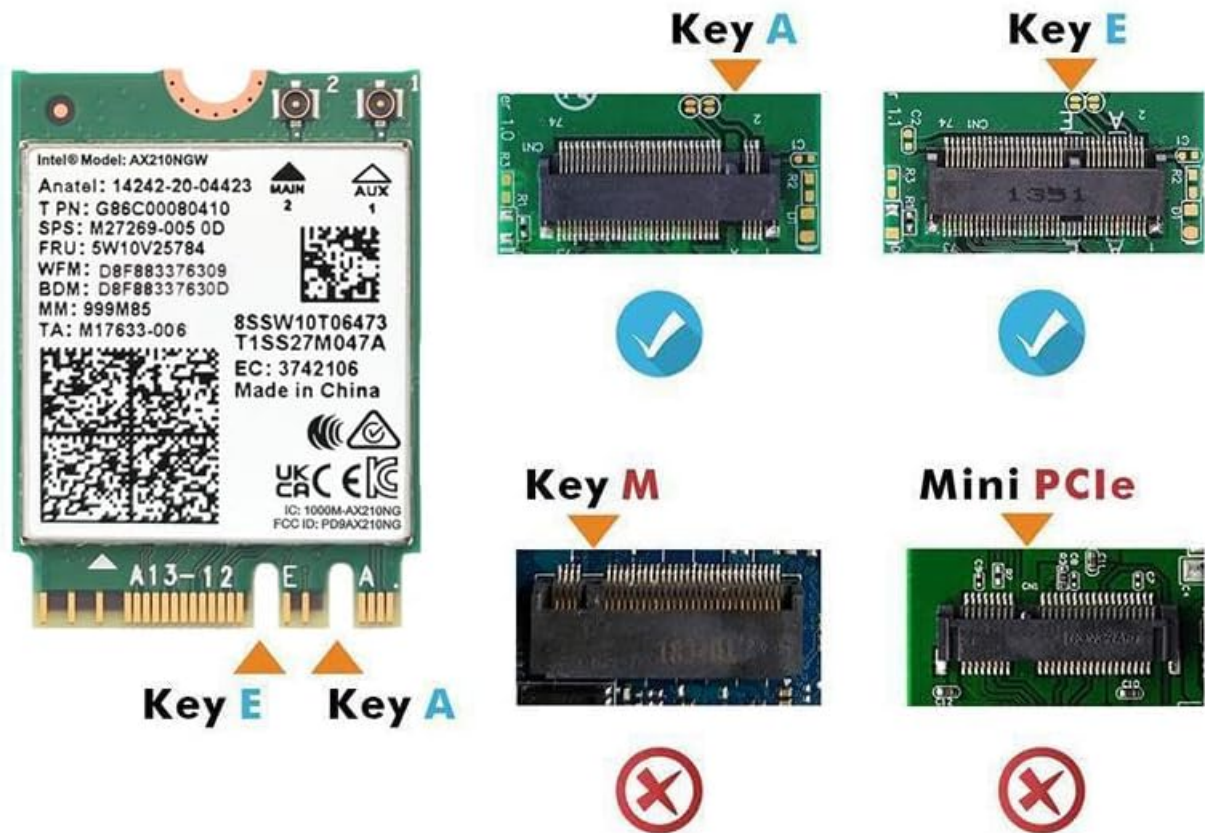
2. WHAT'S IN THE BOX

Please verify that all items are present in your package:

- 1x AX210 NGW Wireless Card
- 1x Ipex Cable
- 2x 8dBi Antennas
- 1x Brackets (Full-height and Low-profile)

Compable M.2 Socket (Key E)

Don't support M.2 Socket (Key E) with Intel® CNVi (Integrated WiFi/BT).



If your motherboard supports type 2230 WiFi/BT module and Intel® CNVi (Integrated WiFi/BT,
that Intel AX210 is not compatible with it.

Image: Contents of the CORN WiFi 6E AX210 NGW Wireless Card package, including the M.2 card, two 8dBi antennas, Ipex cables, and mounting brackets.

3. SPECIFICATIONS

Brand	CORN
Model	AX210 NGW
Hardware Interface	Bluetooth 5, PCIE x 1
Compatible Devices	Desktop, Laptop
Data Link Protocol	IEEE 802.11a, IEEE 802.11ac, Wi-Fi 6E
Compatible Operating System Family	Windows
Minimum Required Operating System Version	Windows 10 (64-bit)
Package Dimensions	7.83 x 4.92 x 0.75 inches
Item Weight	3.2 ounces

4. COMPATIBILITY

The CORN WiFi 6E AX210 NGW Wireless Card is compatible with motherboards featuring Intel CPUs and an M.2 network slot (NGFF M2 2230 A/E key). It supports Windows 10 and Windows 11 (64-bit) operating systems.

Important: This card is not compatible with M.2 Socket (Key E) with Intel® CNVi (Integrated WiFi/BT) modules. Please verify your motherboard's M.2 slot type before installation.

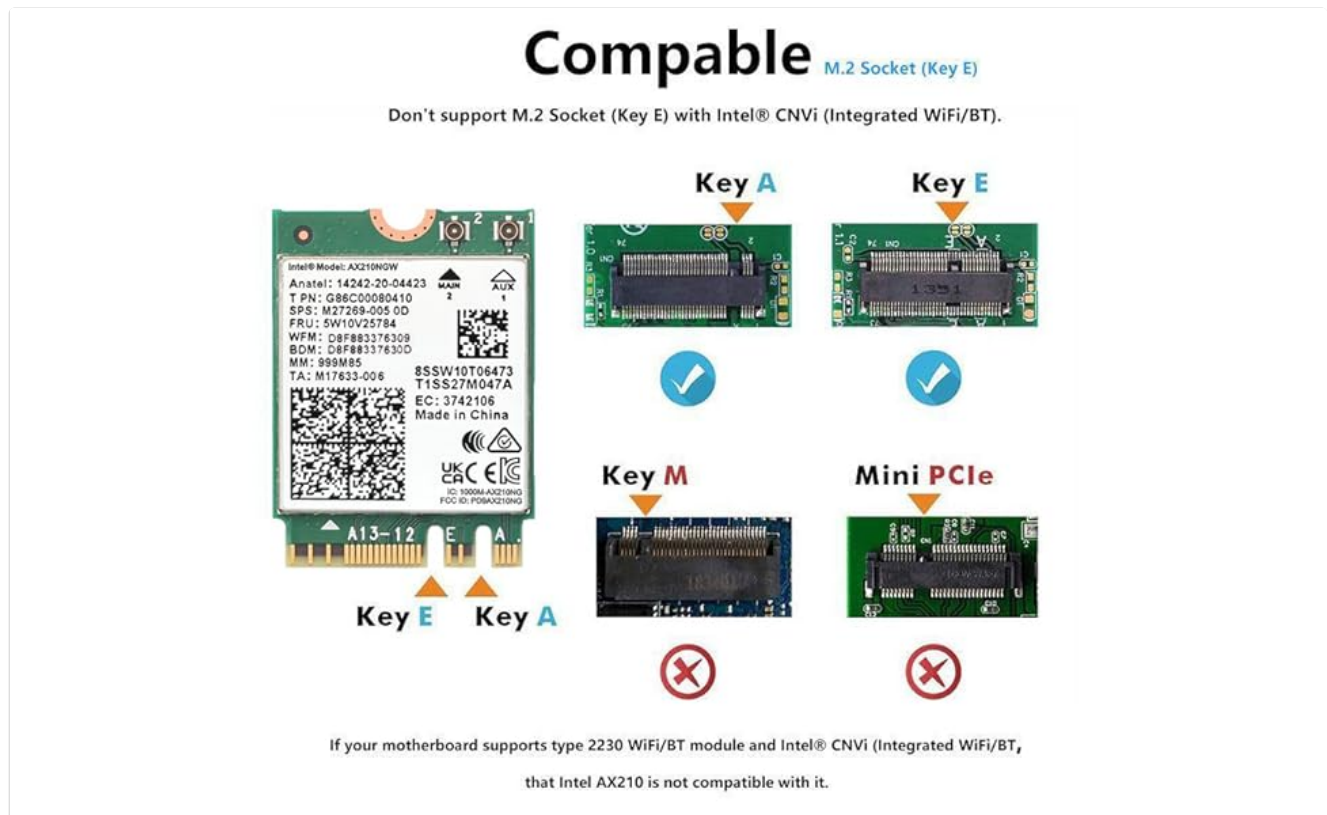


Image: Visual guide illustrating compatible M.2 Key A and Key E slots, and incompatible M.2 Key M and Mini PCIe slots for the wireless card.

5. INSTALLATION GUIDE

Follow these steps to install your new wireless card:

1. **Power Off:** Completely shut down your computer and disconnect it from the power source.
2. **Open Chassis:** Carefully open your computer's case (for desktops) or remove the bottom panel (for laptops) to access the motherboard. Refer to your computer's manual for specific instructions.
3. **Locate M.2 Slot:** Identify the M.2 network slot on your motherboard. If an old wireless card is present, carefully disconnect its antennas and remove the retaining screw, then gently pull out the old card.
4. **Install New Card:** Insert the AX210 NGW Wireless Card into the M.2 slot at an angle, then press it down and secure it with the retaining screw.
5. **Connect Antennas:** Carefully connect the Ipex cables from the 8dBi antennas to the corresponding connectors on the AX210 NGW card. Ensure a secure connection.
6. **Mount Antennas:** Install the 8dBi antennas to the provided brackets and mount them to your computer's chassis.
7. **Connect Bluetooth Cable:** Connect the small Bluetooth cable from the wireless card to the 9-pin F-USB connector on your motherboard.
8. **Close Chassis:** Reassemble your computer's case or bottom panel.

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Video: A demonstration of installing an Intel AX210 NGW WiFi card into a laptop, showing the process of removing the old card and connecting the new one.

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Video: A step-by-step guide on installing a WiFi 6 Adapter (AX200, similar to AX210) into a desktop computer's PCIe slot, including connecting the Bluetooth cable and antennas.

6. DRIVER INSTALLATION

After physical installation, you need to install the appropriate drivers for the wireless card to function correctly. Since the card is Intel-based, drivers can be obtained from the official Intel website.

1. **Download Drivers:** Visit the official Intel website (support.intel.com) and search for 'AX210 NGW drivers'. Download the latest Wi-Fi and Bluetooth drivers for Windows 10/11 (64-bit).
2. **Install Wi-Fi Driver:** Locate the downloaded Wi-Fi driver file (usually an executable or a zipped folder). Extract if necessary, then run the installer and follow the on-screen prompts.
3. **Install Bluetooth Driver:** Similarly, locate and install the Bluetooth driver.
4. **Restart Computer:** After both drivers are installed, restart your computer to ensure all changes take effect.

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Video: A guide demonstrating the driver installation process for an OKN WiFi 6 PCIe Adapter, which is applicable to similar Intel-based wireless cards.

7. OPERATING INSTRUCTIONS

Once the drivers are installed and your computer has restarted, you can begin using your new wireless card:

- **Connect to Wi-Fi:** Click on the Wi-Fi icon in your system tray (usually bottom-right corner on Windows). Select your desired Wi-Fi network (2.4GHz, 5GHz, or 6GHz if available) and enter the password to connect.
- **Enable Bluetooth:** Go to your computer's Bluetooth settings. Ensure Bluetooth is turned on. Your computer should now detect nearby Bluetooth devices.
- **Pair Bluetooth Devices:** Select the Bluetooth device you wish to pair from the list and follow the on-screen instructions.

8. MAINTENANCE

To ensure optimal performance and longevity of your wireless card:

- **Keep Drivers Updated:** Regularly check the Intel website for the latest driver updates to benefit from performance improvements and bug fixes.
- **Maintain Cleanliness:** Periodically clean your computer's interior to prevent dust buildup on the wireless card, which can affect performance and lead to overheating.
- **Secure Connections:** Ensure antenna connections remain tight and secure. Loose connections can degrade signal quality.

9. TROUBLESHOOTING

If you encounter issues with your CORN WiFi 6E AX210 NGW Wireless Card, try the following:

- **No Wi-Fi/Bluetooth Detected:**

- Verify the card is correctly seated in the M.2 slot.
- Ensure all antenna cables are securely connected.
- Check Device Manager to see if the device is recognized and drivers are installed without errors. Reinstall drivers if necessary.
- Confirm your operating system is Windows 10/11 (64-bit).

- **Slow Speeds/Intermittent Connection:**

- Ensure your router supports Wi-Fi 6E and is configured for optimal performance.
- Try connecting to a different Wi-Fi band (2.4GHz, 5GHz, or 6GHz) to see if performance improves.
- Update your router's firmware.
- Reduce interference by moving away from other electronic devices.

- **Bluetooth Device Not Pairing:**

- Ensure the Bluetooth device is in pairing mode.
- Check if the Bluetooth cable is properly connected to the motherboard's F-USB header.
- Update Bluetooth drivers.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact CORN customer service. Keep your proof of purchase for warranty claims.