Manuals+
Q & A | Deep Search | Upload

OKN AX210

OKN WiFi 6E AX210 NGW Wireless Card User Manual

Model: AX210

Brand: OKN

1. Introduction

This manual provides essential information for the installation, operation, and troubleshooting of your OKN WiFi 6E AX210 NGW Wireless Card. This M.2 2230/NGFF module is designed to upgrade your laptop or desktop PC with the latest WiFi 6E and Bluetooth 5.3 capabilities, delivering high-speed, low-latency wireless connectivity.

2. Key Features

- **Ultrafast Wi-Fi Speed:** Brings WiFi into 6GHz, updating your WiFi to Tri-Band. Max Speed up to 574Mbps @2.4GHz + 2400Mbps @5GHz + 2400Mbps @6GHz. Offers long range on 2.4GHz, high speed on 5GHz, and even higher speed with interference-free, ultra-low latency on 6GHz.
- **WiFi 6E Technology:** Features the latest WiFi 6 R2 technology and frequency band resources, compatible with existing and upcoming WiFi routers (e.g., ASUS, Netgear, TP-Link).
- **Upgraded from AX200:** Includes all features of AX200, such as MU-MIMO, 1024QAM, OFDMA, and 160MHz channel support.
- **Compatible With BT 5.3:** Bluetooth 5.3 offers larger capacity, higher speed, extremely low latency, and stronger battery life compared to Bluetooth 5.2.
- **WPA3 Network Security:** Supports WPA, WPA2, and WPA3 network security protocols for enhanced data protection.
- **System Supported:** Compatible with Windows 10/11 64-bit operating systems. Works with Intel CPU and newer AMD CPU platforms.

3. Setup and Installation

The OKN AX210 NGW Wireless Card is an M.2 2230/NGFF module designed for internal installation in compatible laptops or desktop motherboards. Please ensure your device has an available M.2 slot with Key E or Key A support.

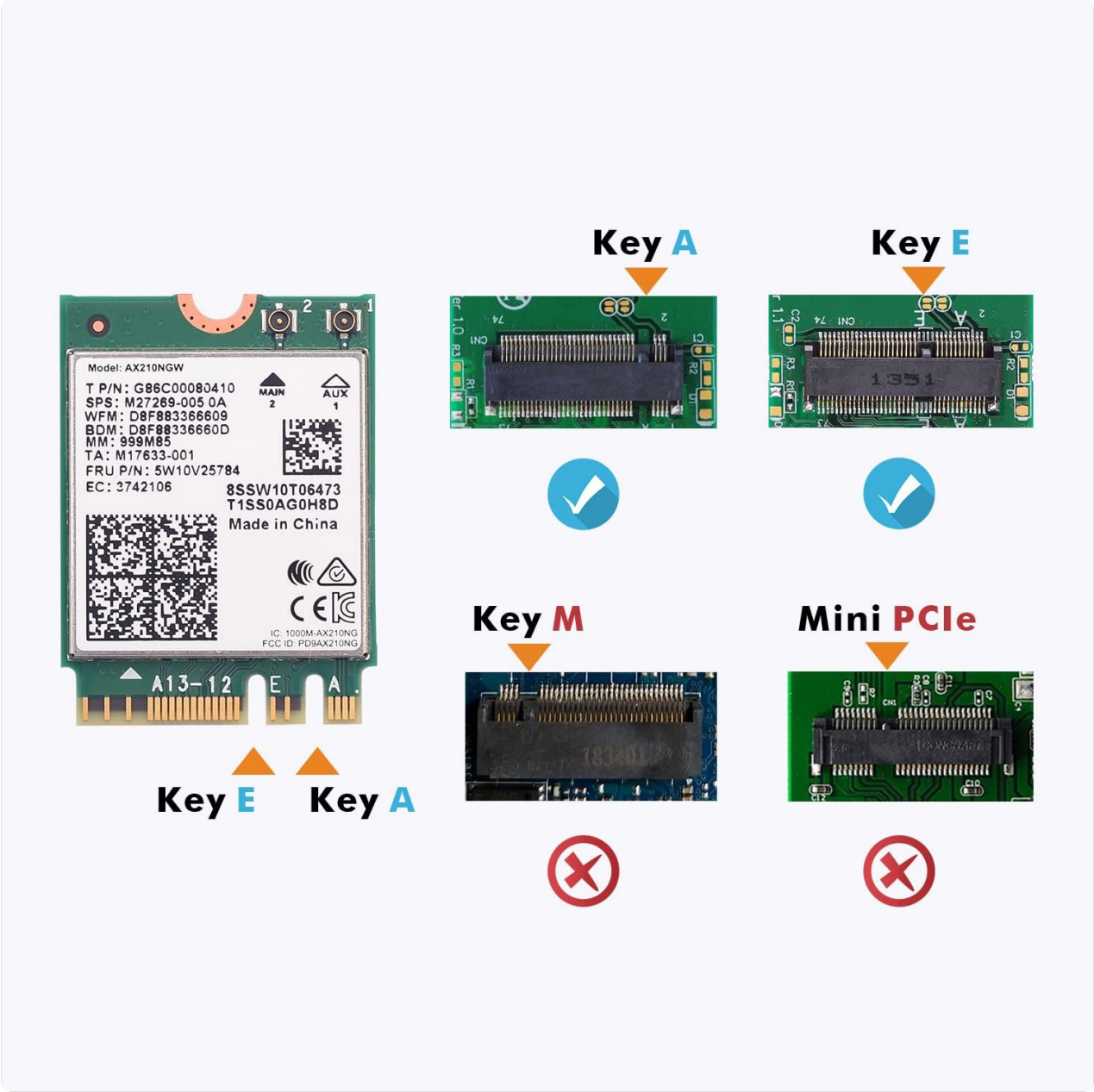

Figure 1: OKN AX210 NGW Wireless Card showing M.2 Key A and Key E compatibility. Note that Key M and Mini PCIe slots are not compatible.

Installation Steps:

1. **Preparation:** Power off your computer and disconnect all cables. For laptops, remove the battery if possible.
2. **Access M.2 Slot:** Open your computer case or laptop's back panel to access the M.2 slot. Refer to your computer's manual for specific instructions.
3. **Insert Module:** Carefully align the notches on the AX210 module with the M.2 slot (Key E or Key A). Insert the module at a slight angle and gently push it into the slot until it is fully seated.
4. **Secure Module:** Press the module down and secure it with the screw provided with your computer or

motherboard.

5. **Close Panel:** Reassemble your computer or laptop.
6. **Driver Installation:** After hardware installation, power on your computer. You will need to install the appropriate drivers for the Intel AX210 chipset. You can download the latest drivers from the official Intel website by searching for "AX210" drivers.

Bluetooth® 5.3
WiFi 6E
2
1
Intel Model: AX210NGW
Anatel: 14242-20-04423
T PN: G86C00080410
SPS: M27269-005 0C
FRU: 5W10V25784
WFM: 70A8D3A021BB
BDM: 70A8D3A021BF
MM: 999M85
TA: M17633-003
MAIN
2
AUX
1
8SSW10T06473
T1SS2320HX1
EC: 3742106
Made in China
IC: 1000M-AX210NG
FCC ID: PD9AX210NG
A16-12
E
A

Figure 2: The OKN AX210 NGW Wireless Card module.

Important Driver Note: We recommend uninstalling and deleting any drivers related to your original network card (if any) before installing the new AX210 module. Restart your computer after uninstalling old drivers and before installing new ones to ensure proper loading of the new network card driver. You may use tools like DriverMax (from Microsoft) to scan and update drivers.

If your laptop or desktop PC has a built-in WiFi function, please turn it off when using this module to avoid conflicts.

4. Operating Instructions

Once the OKN AX210 NGW Wireless Card is successfully installed and drivers are loaded, your computer will recognize the new WiFi and Bluetooth capabilities.

Figure 3: Tri-Band capabilities of the WiFi 6E AX210 module, supporting 2.4GHz, 5GHz, and 6GHz frequencies.

WiFi Connectivity:

- Access your operating system's network settings.
- Scan for available WiFi networks. The AX210 supports 2.4GHz, 5GHz, and 6GHz bands.
- Select your desired network and enter the password if required.
- Enjoy enhanced speeds and lower latency provided by WiFi 6E technology.

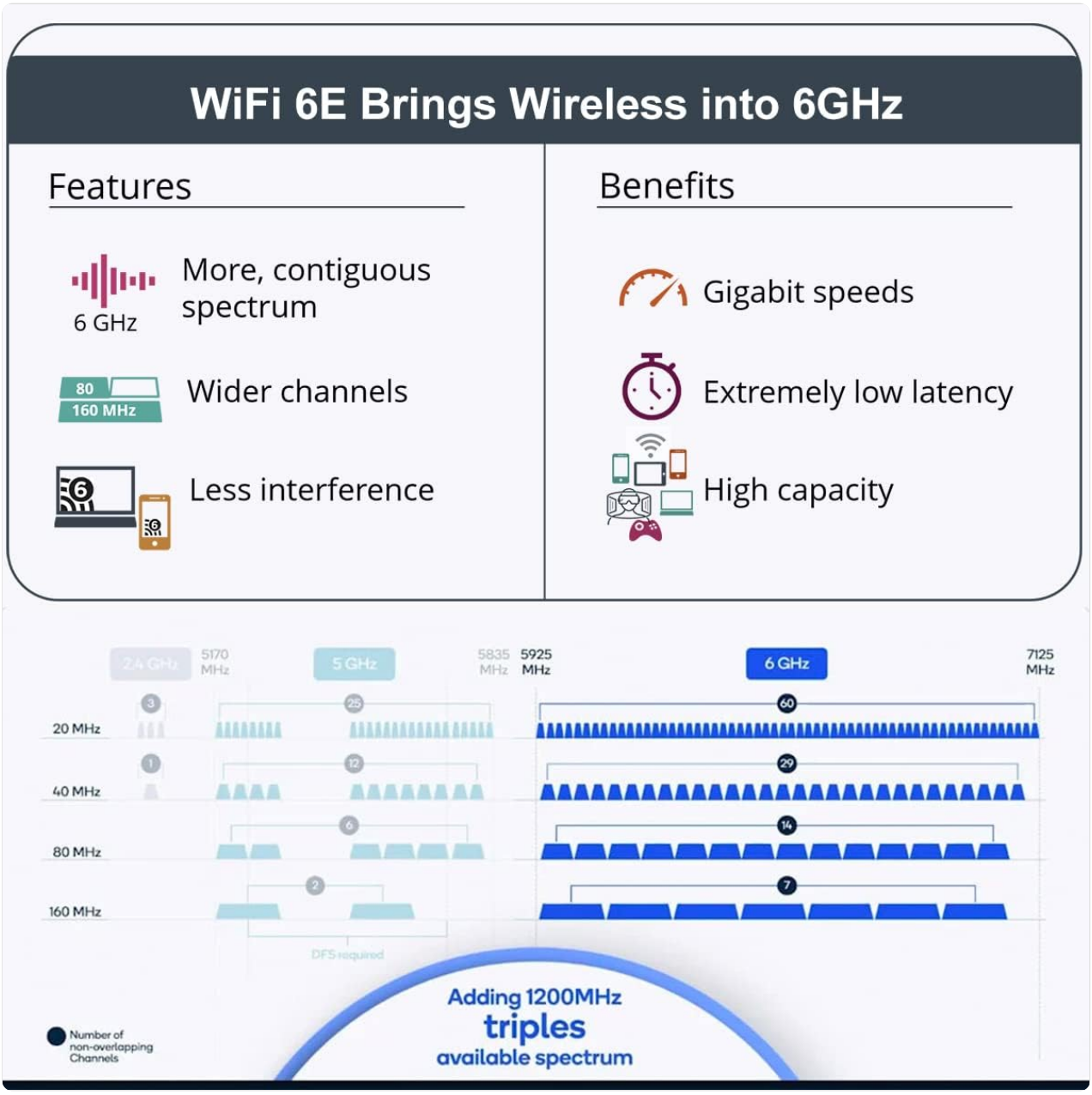

Figure 4: Key features and benefits of WiFi 6E, including wider channels, less interference, and high capacity.

Bluetooth Connectivity:

- Navigate to your operating system's Bluetooth settings.
- Ensure Bluetooth is enabled.
- Put your Bluetooth device into pairing mode.
- Select your device from the list of available devices and follow on-screen prompts to pair.

Figure 5: Bluetooth 5.3 capabilities, showing improved speed, range, and throughput for connecting various peripherals.

5. Maintenance

The OKN AX210 NGW Wireless Card is a low-maintenance component. Keep your system's drivers updated for optimal performance and security. Ensure proper airflow within your computer case to prevent overheating, which can affect component longevity.

Figure 6: Close-up view of the Intel AX210 chipset, providing high network reliability and performance.

Regularly check for Windows updates to ensure your operating system is compatible with the latest wireless technologies and security patches.

Figure 7: WPA3 Network Security ensures your wireless connection is protected.

6. Troubleshooting

If you encounter issues with your OKN AX210 NGW Wireless Card, consider the following troubleshooting steps:

- **Driver Recognition:** First, check whether the device's WiFi is recognized by the computer in the Device

Manager. If a network controller with a yellow exclamation mark appears, install the WiFi driver. If the driver is installed but the yellow warning is still displayed, right-click, select "Update driver," and choose the C drive path to manually update.

- **Driver Conflicts:** We recommend that you uninstall and delete the driver related to the original network card (if any), and then restart the computer to properly load the new network card driver. Please use the DriverMax that comes with Microsoft to scan and update the driver.
- **Built-in WiFi Interference:** If your laptop/desktop PC has a built-in WiFi function, please turn off the built-in WiFi when using this module.
- **Antenna Connection:** This wireless module does not include antennas. Ensure you have compatible antennas connected to the module if you are using it with an adapter that requires external antennas, as proper antenna connection is crucial for signal strength.
- **Environmental Factors:** The network environment, router, physical barriers, and your computer's internal memory can all affect WiFi speed and performance. Try testing the card in different environments or closer to your router.
- **Compatibility:** Ensure your system meets the requirements (Windows 10/11 64-bit, Intel or newer AMD CPU, compatible M.2 slot).

7. Specifications

Specification	Value
Product Dimensions	1.18 x 0.87 x 0.8 inches (1.18"L x 0.87"W x 0.8"H)
Item Weight	0.494 ounces (14 Grams)
ASIN	B08MJLPZPL
Item Model Number	AX210
Brand	OKN
Hardware Interface	Memory Stick Micro (M2)
Compatible Devices	Laptop, Desktop
Data Link Protocol	BT 5.3, 6GHz
Data Transfer Rate	5400 Megabits Per Second
UPC	650728511977

8. Warranty and Support

For detailed product information and support, please refer to the official user guide PDF provided by the manufacturer:

Download User Guide (PDF)

You can also visit the official OKN Store for additional products and support resources:

Visit the OKN Store on Amazon

Figure 8: For further assistance, refer to the official support channels.