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> [OKN WiFi 7 BE200NGW M.2 Card User Manual](#)

OKN BE200NGW

OKN WiFi 7 BE200NGW M.2 Card User Manual

Model: BE200NGW

1. INTRODUCTION

The OKN BE200NGW WiFi 7 M.2 Card is an advanced wireless module designed to provide high-speed internet connectivity and Bluetooth capabilities for compatible laptops and desktop PCs. Utilizing the latest Intel Wi-Fi 7 technology, this module offers enhanced performance, improved compatibility, and reduced latency, while also optimizing power consumption for extended device life.



Figure 1.1: The OKN BE200NGW WiFi 7 M.2 Card, a compact module designed for high-speed wireless communication.

2. KEY FEATURES

- **Wi-Fi 7 Technology:** Incorporates the latest Intel Wi-Fi 7 (802.11be) standard for superior performance, compatibility, and lower latency.
- **Tri-Band Operation:** Supports 6GHz, 5GHz, and 2.4GHz frequency bands for flexible and robust wireless connections.
- **High Data Transfer Rates:** Achieves maximum speeds up to 8774Mbps (5800Mbps @6GHz + 2400Mbps @5GHz + 574Mbps @2.4GHz) through technologies like 4096-QAM, MU-MIMO, and 320MHz bandwidth.
- **Bluetooth 5.4:** Features Bluetooth 5.4, building upon Bluetooth 5.3 with enhancements such as LE enhanced connection, Host set Controller key length function, and LE channel hierarchy function, leading to lower latency, stronger anti-interference, and improved battery life for connected devices.
- **Multi-Link Operation (MLO):** Supports MLO for improved throughput and lower latency by utilizing multiple frequency bands simultaneously.
- **WPA3 Security:** Provides enhanced network security with WPA3 encryption.

Wi-Fi 7

BE200
BE200NGW
Anatel: 06538-23-04423
T PN: G86C0008A610
SPS: N39883-005 0A
FRU: 5W11H85441
WFM: E460175E3D37
BDM: E460175E3D3B
MM: 99C472
TA: N28351-001
8SSW11H85106
T1SS39W05PD
EC: 6243847
Made in China
UK CA CE
IC: 1000M-BE200NG
FCC ID: PD9BE200NG

6 GHz

5 GHz

2.4 GHz

Tri-Band speeds up to 9300Mbps

BE200 Inside

BT 5.4 Compatible

Windows 10/11

Figure 2.1: Visual representation of the Wi-Fi 7 capabilities, including tri-band support (6GHz, 5GHz, 2.4GHz), integrated BE200 chip, Bluetooth 5.4 compatibility, and support for Windows 10/11.



Figure 2.2: Illustration of Bluetooth 5.4 functionality, showing compatibility with various devices such as TWS earphones, mice, keyboards, gamepads, speakers, printers, phones, and tablets.

3. PACKAGE CONTENTS

The package includes the following items:

- BE200NGW WiFi 7 M.2 Module (1)

Note: Antennas are not included with this wireless module and must be purchased separately if required for your setup.

4. SYSTEM REQUIREMENTS

- **Operating System:** Windows 11 (64-bit) or Windows 10 (64-bit).

- **Motherboard:** Requires a motherboard with an Intel CPU and an M.2 network slot.
- **M.2 Slot Type:** Specifically requires an NGFF M.2 2230 E key slot.
- **Compatibility Note:** This module does **not** support AMD motherboards.

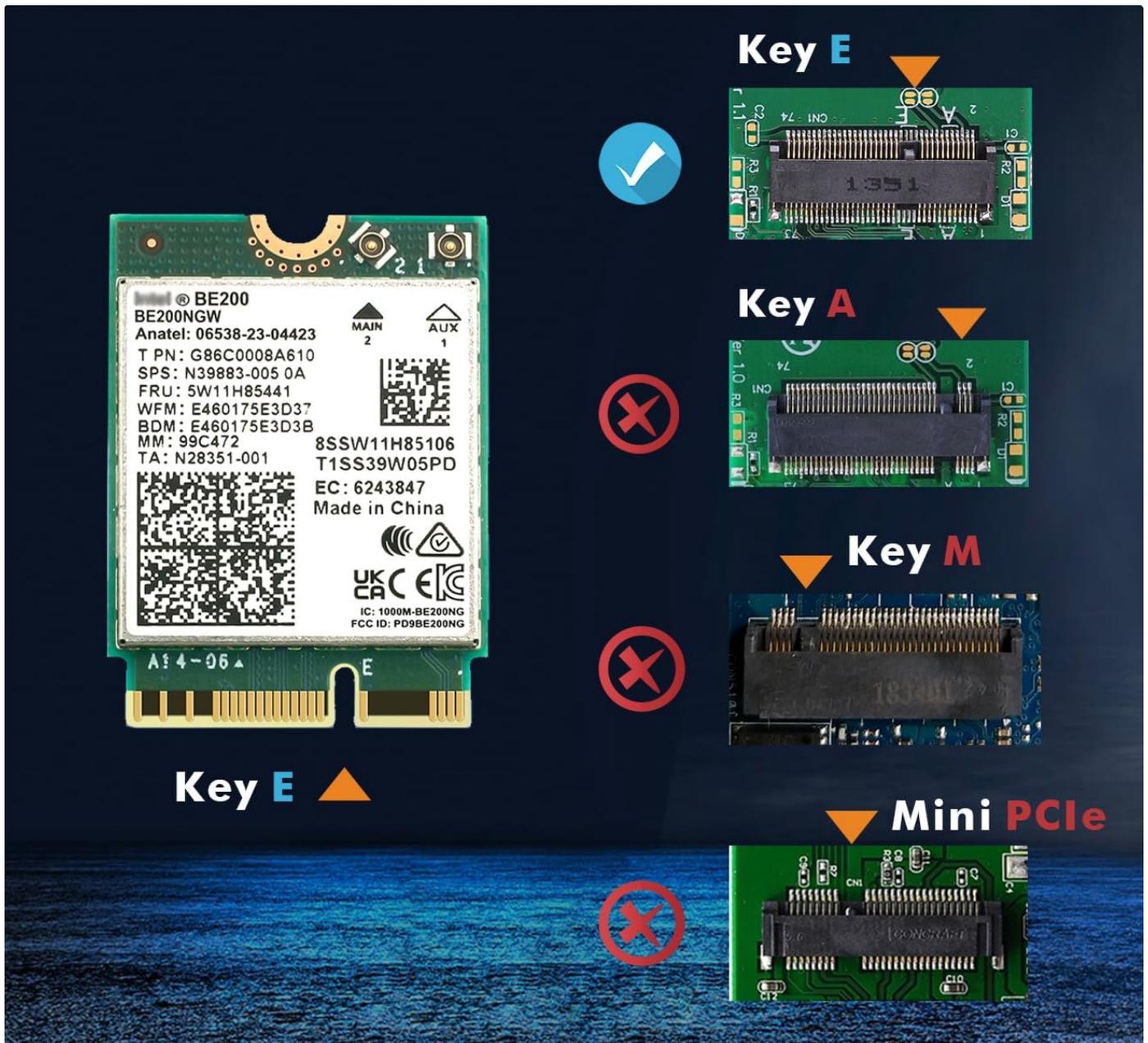


Figure 4.1: Illustrates the required M.2 Key E slot for compatibility, explicitly showing incompatibility with Key A, Key M, and Mini PCIe slots.

5. INSTALLATION GUIDE

Follow these steps to install the BE200NGW WiFi 7 M.2 Card into your compatible laptop or desktop PC:

1. **Power Off:** Ensure your computer is completely powered off and disconnected from the power source.
2. **Access Internal Components:** Open your laptop or desktop case to access the motherboard and M.2 slot. Refer to your computer's service manual for specific instructions on how to safely open the chassis.
3. **Locate M.2 Slot:** Identify the M.2 network slot (NGFF M.2 2230 E key) on your motherboard.
4. **Remove Existing Card (if applicable):** If an existing wireless card is present, carefully disconnect any attached antenna cables and remove the retaining screw before gently sliding the old card out of the slot.
5. **Insert New Card:** Align the BE200NGW module with the M.2 slot. Gently push the card into the slot at an angle until it is fully seated.

6. **Secure Card:** Press the card down and secure it with the retaining screw.
7. **Connect Antennas:** Carefully connect your existing or new antenna cables to the corresponding connectors on the BE200NGW module (Main and Aux).
8. **Reassemble:** Close your computer case and reconnect all peripherals.

Important Considerations Before Installation:

- If your laptop or desktop PC has a built-in WiFi function, it is recommended to turn it off before using the new BE200NGW module to avoid conflicts.
- We recommend that you uninstall and delete any drivers related to your original network card (if any) before installing the new module. After uninstalling, restart your computer to ensure proper loading of the new network card driver.

6. DRIVER INSTALLATION

After physical installation, drivers must be installed for the BE200NGW module to function correctly:

1. **Download Drivers:** Visit the official Intel website and search for "BE200" to download the latest WiFi and Bluetooth drivers for your operating system (Windows 10/11 64-bit).
2. **Install Drivers:** Run the downloaded driver installation files. Follow the on-screen prompts to complete the installation process for both WiFi and Bluetooth drivers.
3. **Restart Computer:** After installing the drivers, restart your computer to ensure all changes take effect.
4. **Verify Installation:** Open Device Manager (right-click on Start button and select 'Device Manager'). Under 'Network adapters' and 'Bluetooth', verify that the Intel Wi-Fi 7 BE200 and Intel Wireless Bluetooth devices are listed without any warning signs.

Tip: If a yellow exclamation mark appears next to the network controller in Device Manager, right-click on it, select 'Update driver', and choose to manually update by browsing to the downloaded driver file path.

7. OPERATING INSTRUCTIONS

Once the BE200NGW module and its drivers are successfully installed, your computer will be able to detect and connect to Wi-Fi 7, Wi-Fi 6E, Wi-Fi 6, Wi-Fi 5, and Wi-Fi 4 networks, as well as Bluetooth devices.

- **Connecting to Wi-Fi:** Access your operating system's network settings. Select the desired Wi-Fi network from the list of available networks and enter the password if prompted.
- **Connecting Bluetooth Devices:** Go to your operating system's Bluetooth settings. Ensure Bluetooth is enabled, then put your Bluetooth device into pairing mode. Select the device from the list and follow any on-screen instructions to complete pairing.

8. TROUBLESHOOTING

If you encounter issues with your BE200NGW WiFi 7 M.2 Card, consider the following:

- **No WiFi/Bluetooth Detected:**
 - Verify the card is correctly seated in the M.2 slot and secured.
 - Ensure antenna cables are securely connected to the module.
 - Check Device Manager for any yellow exclamation marks next to network or Bluetooth devices. If present, try updating drivers manually as described in Section 6.
 - Confirm that your motherboard has an Intel CPU and an NGFF M.2 2230 E key slot. This module is not

compatible with AMD motherboards or other M.2 key types.

- **Slow WiFi Speed:**

- Network speed can be affected by your network environment, router capabilities, physical barriers, and your computer's internal memory.
- Ensure your router supports Wi-Fi 7 (802.11be) to achieve maximum speeds.
- Try updating your router's firmware.
- Reduce interference by moving closer to the router or minimizing obstacles.

- **Driver Issues:**

- If drivers are not installing correctly, try uninstalling any previous network card drivers completely before attempting to install the BE200NGW drivers. Restart your computer after uninstalling old drivers.
- Use a reliable driver update tool like DriverMax (as suggested by the manufacturer) to scan and update drivers if manual installation fails.

- **Interference with Built-in WiFi:**

- If your laptop or desktop has a built-in WiFi function, ensure it is disabled in your operating system's settings or BIOS to prevent conflicts with the new BE200NGW module.

9. SPECIFICATIONS

Feature	Specification
Model Number	BE200NGW
Brand	OKN
Hardware Interface	M.2 (NGFF M.2 2230 E key)
Wireless Standard	IEEE 802.11be (Wi-Fi 7)
Data Link Protocol	Bluetooth 5.4, IEEE 802.11be
Data Transfer Rate	Up to 9.3 Gigabits Per Second (9300 Mbps)
Frequency Bands	Tri-Band (6GHz, 5GHz, 2.4GHz)
Compatible Devices	Desktop, Laptop (with Intel CPU and M.2 E key slot)
Product Dimensions	1.18 x 0.87 x 0.08 inches
Item Weight	0.317 ounces
UPC	650728512127
Date First Available	October 30, 2023

10. IMPORTANT NOTES

- This wireless module does not include antennas. Separate antennas may be required for proper operation depending on your system.
- The actual WiFi speed experienced can be influenced by various factors, including the network environment, router

specifications, physical barriers (walls, furniture), and the internal memory/configuration of your laptop or PC.

- For optimal performance, ensure your router is Wi-Fi 7 compatible.

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official OKN website. Support resources typically include FAQs, driver downloads, and contact information for customer service.

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Related Documents - BE200NGW

 <p>OKN WiFi 6E (Gig+) Desktop Kit AX200 / AX210 User Guide</p> <p>Packing list</p> <p>Driver Download</p>	<p>OKN WiFi 6E Desktop Kit AX200/AX210 User Guide and Installation</p> <p>Comprehensive user guide and installation instructions for the OKN WiFi 6E Desktop Kit, featuring Intel AX200 and AX210 chipsets (e.g., AX210NGW). This kit supports 6GHz band, 2x2 AX, Bluetooth 5.2/5.3, tri-band connectivity, includes 5dBi antennas and low-profile brackets. Learn about packing contents, driver downloads, and step-by-step installation for your desktop PC.</p>
 <p>Product Picture:</p>	<p>Intel BE200 WiFi 7 Card Installation and Specifications</p> <p>Comprehensive guide to installing the Intel BE200 WiFi 7 wireless network card, including specifications, compatibility, and troubleshooting tips for desktop PCs.</p>
 <p>OKN WiFi 6E (Gig+) Desktop Kit AX200 / AX210 User Guide</p> <p>Packing list</p> <p>Driver Download</p>	<p>OKN WiFi 6E Desktop Kit AX200/AX210 User Guide and Installation</p> <p>Comprehensive user guide and installation instructions for the OKN WiFi 6E Desktop Kit, featuring Intel AX200 and AX210 chipsets (e.g., AX210NGW). This kit supports 6GHz band, 2x2 AX, Bluetooth 5.2/5.3, tri-band connectivity, includes 5dBi antennas and low-profile brackets. Learn about packing contents, driver downloads, and step-by-step installation for your desktop PC.</p>
 <p>Regulatory Notice for Wireless LAN/WAN modules</p>	<p>Lenovo Wireless Module Regulatory Notice and Compliance Information</p> <p>This document provides essential regulatory compliance and safety information for Lenovo's wireless LAN and WAN modules, detailing adherence to international standards and regional requirements for safe and compliant operation of wireless technologies within Lenovo devices.</p>

Regulatory Notice



[Lenovo Regulatory Notice for ThinkPad Products](#)

This document provides essential regulatory information for Lenovo ThinkPad computers, covering compliance with FCC, ISED, and EU/UK standards, along with details on wireless modules and their certifications.

Regulatory Notice



[Lenovo ThinkPad Regulatory Notice: Compliance and Safety Information](#)

This document provides essential regulatory compliance and safety information for Lenovo ThinkPad laptops, detailing wireless module approvals and standards across various global regions. It covers FCC, ISED, EU, and country-specific regulations.