

## Intel AX200NGWG

# Intel AX200 Wi-Fi 6 and Bluetooth 5.0 M.2 Combo Adapter User Manual

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## 1. INTRODUCTION

This manual provides instructions for the installation and operation of the Intel AX200 Wi-Fi 6 and Bluetooth 5.0 M.2 Combo Adapter. This internal component is designed to enhance wireless connectivity in compatible notebooks, offering advanced Wi-Fi 6 (802.11ax) technology and Bluetooth 5.0 capabilities. The Intel AX200 module supports 2x2 Wi-Fi 6 with features such as UL and DL OFDMA and 1024QAM, enabling data rates up to 2.4Gbps. It operates on both 2.4 GHz ISM and 5 GHz UNII frequencies, providing improved network efficiency, lower latency, and extended battery life in dense network environments.

## 2. SAFETY INFORMATION

Please read and understand all safety precautions before installing or operating this device. Failure to do so may result in personal injury or damage to your equipment.

- **Power Disconnection:** Always disconnect your notebook from the power source and remove the battery before opening the chassis or performing any installation.
- **Electrostatic Discharge (ESD):** Electronic components are sensitive to static electricity. Use an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the adapter.
- **Handle with Care:** Avoid touching the gold connectors on the adapter. Hold the module by its edges.
- **Professional Installation Recommended:** If you are not comfortable with internal computer hardware installation, seek assistance from a qualified technician.

- **Ventilation:** Ensure your notebook has adequate ventilation after installation to prevent overheating.

## 3. SETUP AND INSTALLATION

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### 3.1. Pre-installation Checklist

- **Compatibility:** Ensure your notebook has an available M.2 slot (Key E or A+E) for Wi-Fi modules.
- **Operating System:** This adapter requires Windows 10 or a newer operating system for full functionality.
- **Tools:** You may need a small Phillips head screwdriver and a plastic pry tool to open your notebook chassis.

### 3.2. Physical Installation

1. **Prepare Notebook:** Power off your notebook, disconnect the power adapter, and remove the battery (if removable).
2. **Open Chassis:** Carefully open your notebook's bottom cover. Refer to your notebook's service manual for specific instructions.
3. **Locate M.2 Slot:** Identify the M.2 slot designated for the wireless module. It may already contain an existing Wi-Fi card that needs to be removed.
4. **Remove Old Card (if applicable):** Unscrew the retaining screw, gently disconnect the antenna cables, and slide out the old wireless card.
5. **Insert Intel AX200:** Align the notch on the Intel AX200 module with the key in the M.2 slot. Gently slide the module into the slot at an angle.



Image: The Intel AX200 M.2 Wi-Fi and Bluetooth module, showing its compact form factor and gold connectors.

6. **Secure Module:** Once fully seated, push the module down and secure it with the retaining screw.
7. **Connect Antennas:** Carefully snap the existing antenna cables onto the corresponding connectors on the AX200 module. Typically, the main antenna connects to '1' and the auxiliary to '2' (or black to main, white to aux). Ensure a firm connection.
8. **Close Chassis:** Reassemble your notebook's bottom cover and secure it with screws. Reinsert the battery and connect the power adapter.

### 3.3. Driver Installation

After physical installation, you will need to install the appropriate drivers for the Intel AX200 adapter.

1. **Power On:** Start your notebook.
2. **Download Drivers:** Visit the official Intel support website ([www.intel.com/support](http://www.intel.com/support)) and search for the latest drivers for the Intel Wi-Fi 6 AX200 and Intel Bluetooth AX200. Download the appropriate drivers for your operating system (Windows 10 64-bit is typically required).
3. **Install Drivers:** Run the downloaded driver installers. Follow the on-screen prompts to complete the installation. You may need to restart your computer.
4. **Verify Installation:** Open Device Manager (search for it in Windows). Under 'Network adapters', you should see 'Intel Wi-Fi 6 AX200'. Under 'Bluetooth', you should see 'Intel Wireless Bluetooth'. If these are present and show no errors, the installation was successful.

## 4. OPERATION

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## 4.1. Wi-Fi Connection

Once drivers are installed, your notebook will detect available Wi-Fi networks.

1. Click the Wi-Fi icon in the system tray (usually bottom-right of the screen).
2. Select your desired Wi-Fi network from the list.
3. Enter the network security key (password) if prompted.
4. Click 'Connect'.

## 4.2. Bluetooth Pairing

To pair Bluetooth devices:

1. Go to Windows Settings > Devices > Bluetooth & other devices.
2. Ensure Bluetooth is turned 'On'.
3. Put your Bluetooth device into pairing mode (refer to the device's manual).
4. Click 'Add Bluetooth or other device' and select 'Bluetooth'.
5. Select your device from the list and follow any on-screen prompts to complete pairing.

## 5. MAINTENANCE

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To ensure optimal performance and longevity of your Intel AX200 adapter:

- **Keep Drivers Updated:** Regularly check the Intel support website for the latest Wi-Fi and Bluetooth drivers. Updated drivers can improve performance, stability, and security.
- **System Updates:** Keep your operating system updated, as this can also include important fixes and improvements for hardware compatibility.
- **Cleanliness:** Periodically clean your notebook's ventilation areas to prevent dust buildup, which can affect internal component temperatures.

## 6. TROUBLESHOOTING

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### 6.1. No Wi-Fi or Bluetooth Detected

- **Check Physical Installation:** Ensure the AX200 module is correctly seated in the M.2 slot and the antenna cables are securely connected.
- **Verify Drivers:** Open Device Manager. Look for 'Intel Wi-Fi 6 AX200' and 'Intel Wireless Bluetooth'. If there's a yellow exclamation mark or the device is missing, reinstall the drivers.
- **Enable in BIOS/UEFI:** Some notebooks have an option in the BIOS/UEFI settings to enable or disable wireless devices. Ensure it is enabled.

### 6.2. Slow Wi-Fi Speeds or Frequent Disconnections

- **Update Drivers:** Ensure you have the latest Wi-Fi drivers from Intel.
- **Router Placement:** Move closer to your Wi-Fi router or ensure there are no major obstructions.
- **Router Settings:** Ensure your router is configured for Wi-Fi 6 (802.11ax) if you expect maximum

speeds. Try changing Wi-Fi channels on your router to avoid interference.

- **Antenna Connection:** Recheck the antenna connections on the AX200 module. Loose connections can significantly impact performance.

### 6.3. Bluetooth Device Not Pairing

- **Ensure Bluetooth is On:** Check Windows Settings to confirm Bluetooth is enabled.
- **Device in Pairing Mode:** Make sure the Bluetooth device you are trying to pair is in its discoverable/pairing mode.
- **Remove Old Pairings:** If you've previously paired the device, remove it from your notebook's Bluetooth settings and try pairing again.
- **Driver Update:** Ensure you have the latest Bluetooth drivers from Intel.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	AX200NGWG
Wireless Standard	IEEE 802.11ax (Wi-Fi 6)
Bluetooth Version	Bluetooth 5.0
Interface	M.2 (Key E or A+E)
Data Transfer Rate	Up to 2.4 Gigabits Per Second
Frequency Bands	2.4 GHz ISM, 5 GHz UNII
Compatible Devices	Laptop
Minimum OS Required	Windows 10
Product Dimensions	1.18 x 0.79 x 0.06 inches (0.87"L x 0.09"H)
Item Weight	0.563 ounces (0.02 Kilograms)
UPC	735858416016

## 8. SUPPORT AND WARRANTY

For further assistance, technical support, or warranty information, please refer to the resources below:

- **Manufacturer:** Intel Corporation
- **Intel Support Website:** [www.intel.com/support](http://www.intel.com/support)
- **Additional Support & Information:** Instructions for use, support, and manufacturer's information may also be available via the following link: [highzer0.com/getconnected](http://highzer0.com/getconnected)



Image: QR code linking to [highzer0.com/getconnected](https://highzer0.com/getconnected) for product and setup information.

8.1. Product Compliance

This wireless adapter complies with Part 15 of the FCC Rules and with the essential requirements of the European Union Directive 2014/53/EU. For a full list of regulatory disclosures, warnings, and instructions, refer to the provided support links.



Image: Product compliance details including manufacturer, distributor, and regulatory marks (FCC, UKCA, CE, RoHS).

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Related Documents - AX200NGWG

	<p><a href="#">Intel AX200 Wi-Fi Card: User Manual &amp; Installation Guide</a></p> <p>Detailed user manual and installation guide for the Intel AX200 Wi-Fi card. Covers hardware setup, driver installation for Windows 10 (64-bit), and FCC compliance. Compatible with AX200, AX200Pro, WIE9260, WIE8260, WIE7265, AX200NGW, AX200S.</p>
	<p><a href="#">Intel WiFi Adapter Information Guide</a></p> <p>This guide provides essential information about Intel wireless adapters, detailing their compatibility with various Wi-Fi standards and offering insights into adapter settings, regulatory compliance, and support resources. It aims to help users understand and optimize their wireless connectivity.</p>

