

Intel AX211NGWG

Intel AX211 Wi-Fi 6E AX211 (Gig+) Bluetooth 5.3 Combo Adapter User Manual

Model: AX211NGWG

Brand: Intel

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Intel AX211 Wi-Fi 6E AX211 (Gig+) Bluetooth 5.3 Combo Adapter. This adapter is designed to provide high-speed wireless connectivity for compatible systems.

2. PRODUCT OVERVIEW

The Intel AX211 is an M.2 2230 form factor Wi-Fi and Bluetooth combo adapter, supporting Wi-Fi 6E (802.11ax) and Bluetooth 5.3. It is designed for integration into compatible laptops and desktop systems.

2.1 Component Identification

Below are images illustrating the Intel AX211 adapter, highlighting key features and markings.

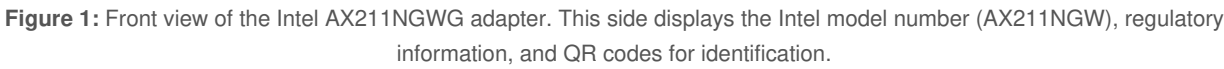


Figure 1: Front view of the Intel AX211NGWG adapter. This side displays the Intel model number (AX211NGW), regulatory information, and QR codes for identification.

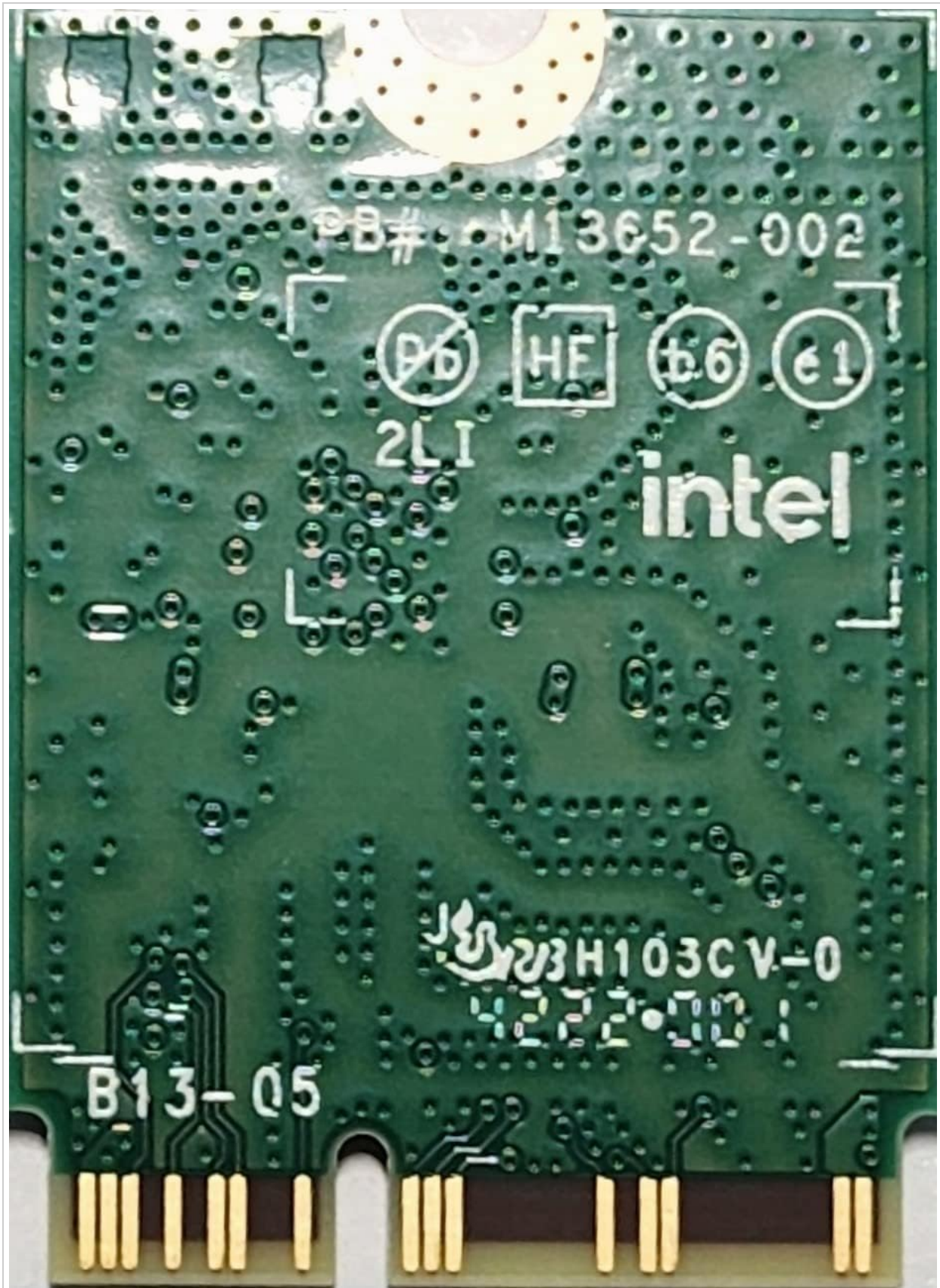


Figure 2: Back view of the Intel AX211NGWG adapter. This side shows the Intel branding and additional PCB markings.

3. INSTALLATION GUIDE

3.1 System Requirements

- Compatible M.2 slot (CNVio2 interface)
- Supported Operating Systems: Windows 11 (64-bit), Windows 10 (64-bit), Linux, Chrome OS

3.2 Hardware Installation

1. **Power Off System:** Ensure your computer is completely powered off and disconnected from the power source.
2. **Open Chassis:** Carefully open your computer's chassis to access the motherboard.
3. **Locate M.2 Slot:** Identify an available M.2 slot that supports the CNVio2 interface. Consult your system's motherboard manual if unsure.
4. **Insert Adapter:** Gently insert the Intel AX211 adapter into the M.2 slot at a 30-degree angle. Push it down until it is flush with the motherboard.
5. **Secure Adapter:** Secure the adapter with the small screw provided with your motherboard or system.
6. **Connect Antennas (if applicable):** If your system requires external antennas, carefully connect the antenna cables to the corresponding connectors on the adapter (MAIN and AUX).
7. **Close Chassis:** Reassemble your computer's chassis and reconnect the power source.

3.3 Driver Installation

1. **Power On System:** Start your computer.
2. **Download Drivers:** Visit the official Intel support website (www.intel.com/support) and download the latest Wi-Fi and Bluetooth drivers for the Intel AX211NGWG adapter compatible with your operating system.
3. **Install Drivers:** Run the downloaded driver installation package and follow the on-screen prompts to complete the installation.
4. **Restart System:** Restart your computer after driver installation to ensure all changes take effect.

4. OPERATION

4.1 Wi-Fi Connection

1. **Access Network Settings:** Open your operating system's network settings (e.g., Windows: Settings > Network & Internet > Wi-Fi).
2. **Enable Wi-Fi:** Ensure Wi-Fi is enabled.
3. **Select Network:** Choose your desired Wi-Fi network from the list of available networks.
4. **Enter Password:** Enter the network security key (password) if prompted.
5. **Connect:** Click 'Connect' to establish the Wi-Fi connection.

4.2 Bluetooth Pairing

1. **Access Bluetooth Settings:** Open your operating system's Bluetooth settings (e.g., Windows: Settings > Devices > Bluetooth & other devices).
2. **Enable Bluetooth:** Ensure Bluetooth is enabled.
3. **Add Device:** Click 'Add Bluetooth or other device' and select 'Bluetooth'.
4. **Pair Device:** Put your Bluetooth device into pairing mode. Select it from the list of discovered devices and follow any on-screen prompts to complete the pairing process.

5. MAINTENANCE

- **Driver Updates:** Regularly check the Intel support website for the latest Wi-Fi and Bluetooth drivers to ensure optimal performance and security.
- **System Ventilation:** Ensure your computer's ventilation system is clear of obstructions to prevent

overheating, which can affect adapter performance.

- **Physical Inspection:** Periodically inspect the adapter and antenna connections (if applicable) for any signs of damage or loose connections.

6. TROUBLESHOOTING

- **No Wi-Fi or Bluetooth Connectivity:**
 - Verify the adapter is correctly installed in the M.2 slot.
 - Ensure the latest drivers are installed.
 - Check if Wi-Fi and Bluetooth are enabled in your operating system settings.
- **Slow Wi-Fi Speeds or Frequent Disconnections:**
 - Ensure you are within range of your Wi-Fi router.
 - Check for potential interference from other electronic devices.
 - Update your router's firmware and adapter drivers.
 - Consider using a different Wi-Fi channel on your router.
- **Bluetooth Device Not Pairing:**
 - Ensure the Bluetooth device is in pairing mode.
 - Check if the Bluetooth device is within range.
 - Remove previous pairings of the device from your system and try again.
 - Update Bluetooth drivers.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	AX211NGWG
Brand	Intel
Hardware Interface	M.2: CNVio2
Wi-Fi Standard	Wi-Fi 6E (802.11ax)
Bluetooth Version	5.3
Wi-Fi Bands	2.4 GHz, 5 GHz, 6 GHz (160MHz)
Max Speed	2.4 Gbps
TX / RX Streams	2x2
Supported Operating Systems	Windows 11 (64-bit), Windows 10 (64-bit), Linux, Chrome OS
Board Form Factor	M.2 2230, M.2 1216
Product Dimensions (L x W x H)	0.87 x 1.18 x 0.09 inches (22 x 30 x 2.4 mm)
Item Weight	0.8 ounces (22.68 g)
Operating Temperature Range	0°C to 80°C

8. WARRANTY INFORMATION

The Intel AX211NGWG Combo Adapter comes with a **1 Year Limited Warranty**. For detailed terms and conditions, including warranty claims and service, please refer to the official Intel warranty policy available on their website or contact Intel customer support directly.





9. CUSTOMER SUPPORT

For further assistance, technical support, or driver downloads, please visit the official Intel support website:

Intel Support for AX211

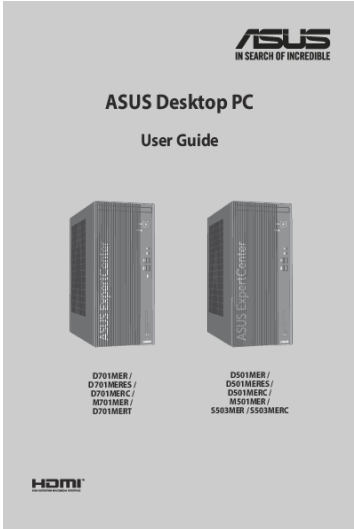
You may also find helpful resources and community forums on the Intel website.

Related Documents - AX211NGWG

	<p>Intel WiFi Adapter Information Guide: Specifications, Compatibility, and Regulatory Compliance</p> <p>This guide provides comprehensive information on Intel WiFi adapters, including supported models, technical specifications, wireless standards compliance, regulatory details, and safety guidelines. Essential reading for understanding Intel's wireless networking solutions.</p>
	<p>Intel WiFi Adapter Information Guide</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>
	<p>Intel WiFi Adapter Information Guide: Features, Specifications, and Regulatory Information</p> <p>Comprehensive guide to Intel WiFi adapters, covering supported models, features, adapter settings, regulatory compliance, and safety notices for various Intel wireless networking products.</p>
	<p>Intel® WiFi Adapter Information Guide</p> <p>Comprehensive guide detailing the Intel® Wi-Fi 7 BE201D2WP wireless adapter, covering specifications, features, regulatory compliance across various regions, safety information, and warranty details. Designed for seamless integration into notebooks and tablets.</p>

<div><div>Intel® WiFi Adapter Information Guide</div><div>Comprehensive guide detailing Intel WiFi adapters, their compatibility with PROSet/Wireless WiFi Software, supported wireless standards (802.11a/b/g/n/ac/ax/be), features like fast connectivity, and essential regulatory and safety information for various models.</div></div>	<div>Intel WiFi Adapter Information Guide</div>
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Documents - Intel – AX211NGWG



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