

## Intel 6235ANHMW

# Intel Centrino Advanced-N 6235 WLAN Bluetooth 4.0 Half MINI Card Instruction Manual

Model: 6235ANHMW

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Intel Centrino Advanced-N 6235 WLAN Bluetooth 4.0 Half MINI Card. This internal component is designed to enhance wireless connectivity in compatible laptop systems.

## 2. PRODUCT OVERVIEW

The Intel Centrino Advanced-N 6235 (model 6235ANHMW) is a dual-stream (2x2), dual-band (2.4 GHz and 5 GHz) Wi-Fi and Bluetooth 4.0 adapter. It supports 802.11a/b/g/n wireless standards, offering data transfer speeds of up to 300 Mbps. Key features include:

- **Dual-Band Connectivity:** Operates on both 2.4 GHz and 5 GHz frequencies for flexible and less congested wireless connections.
- **High Speed Wi-Fi:** Up to 300 Mbps for faster data transfer, suitable for HD video streaming and online gaming.
- **Bluetooth 4.0:** Integrated Bluetooth for connecting wireless peripherals.
- **Intel Features:** Includes Intel Smart Connect Technology, Intel Wireless Display (WiDi), and Intel My WiFi for enhanced user experience.

## 3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present:

- 1 x Intel Centrino Advanced-N 6235 WLAN Bluetooth 4.0 Half MINI Card (Model: 6235ANHMW)
- 2 x Mounting Screws

## 4. INSTALLATION

**Important Note:** Intel recommends that these network cards be installed by OEM professional technicians only. Installation or upgrade by end-users is not officially supported by Intel. Proceed with caution and at your own risk.

### 1. Preparation:

- Power off your laptop and disconnect it from all power sources.
- Remove the battery.
- Consult your laptop's service manual for instructions on accessing the internal Mini PCI-E slot.
- Ensure you are working in a static-free environment.

### 2. Locate the Mini PCI-E Slot:

The card is a Half Mini PCI-E form factor. Some laptops may require an adapter bracket if designed for a full-size card, though typically the slot itself is compatible.



*Image: The Intel Centrino Advanced-N 6235 Half MINI Card. This image displays the compact green circuit board with gold-plated connectors and various regulatory markings, including "Intel Centrino Advanced-N 6235ANHMW" and "Bluetooth 4.0". The card features two screw holes for secure mounting.*

### 3. Install the Card:

- Carefully insert the Intel Centrino Advanced-N 6235 card into the Mini PCI-E slot.
- Secure the card with the provided screws.

#### 4. Connect Antennas:

- Connect the existing Wi-Fi antenna cables from your laptop to the corresponding connectors on the new card. Pay close attention to labels (e.g., "1" and "2") to ensure correct connection.

#### 5. Reassemble and Power On:

- Reassemble your laptop and reconnect the battery and power adapter.
- Power on the laptop.

#### 6. Driver Installation:

- Once the operating system loads, it may automatically detect and install basic drivers.
- For optimal performance and full functionality (including Bluetooth and Intel-specific features), download and install the latest drivers directly from the official Intel support website. Search for "Intel Centrino Advanced-N 6235 drivers".

## 5. OPERATING INSTRUCTIONS

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After successful installation and driver setup, your Intel Centrino Advanced-N 6235 card will enable Wi-Fi and Bluetooth connectivity.

### 5.1. Wi-Fi Connectivity

- Access your operating system's network settings to connect to available Wi-Fi networks.
- The card supports both 2.4 GHz and 5 GHz bands. If your router supports 5 GHz, connecting to it can provide faster speeds and less interference.
- Utilize Intel Wireless Display (WiDi) if your system and display device support it, allowing wireless streaming of content.

### 5.2. Bluetooth Connectivity

- Enable Bluetooth through your operating system's settings.
- Pair with Bluetooth-enabled devices such as headphones, mice, keyboards, or smartphones.
- Ensure your laptop's BIOS settings or physical switches (if any) have Bluetooth enabled, as some systems may require this for the Bluetooth component of the card to function.

## 6. MAINTENANCE

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To ensure optimal performance and stability of your Intel Centrino Advanced-N 6235 card:

- **Driver Updates:** Regularly check the official Intel support website for the latest Wi-Fi and Bluetooth drivers. Keeping drivers updated can resolve compatibility issues and improve performance.
- **System Updates:** Ensure your operating system is up-to-date, as system updates often include network and Bluetooth stack improvements.
- **Physical Inspection:** If experiencing persistent issues, a physical inspection of the card and antenna connections may be necessary (refer to installation guidelines).

## 7. TROUBLESHOOTING

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If you encounter issues with your Intel Centrino Advanced-N 6235 card, consider the following troubleshooting steps:

- **Wi-Fi Not Working:**

- Verify that the card is properly seated in its slot and that antenna cables are securely connected.
- Ensure Wi-Fi is enabled in your operating system and that airplane mode is off.
- Reinstall the latest drivers from the Intel website.
- Check your router settings and ensure it is broadcasting a signal.

- **Bluetooth Not Working:**

- Many laptops require specific BIOS settings or physical switches to enable the Bluetooth component of a combined Wi-Fi/Bluetooth card. Check your laptop's BIOS for relevant options (e.g., "Wireless", "Bluetooth", "PCIe USB").
- Ensure Bluetooth is enabled in your operating system's settings.
- Reinstall Bluetooth drivers from the Intel website.
- If the device manager shows the Bluetooth device as removed or disabled, try enabling it.
- Some systems may not fully support the integrated Bluetooth functionality of this card due to hardware design.

- **Poor Performance / Intermittent Connection:**

- Ensure you have the latest drivers installed.
- Check for interference from other wireless devices or networks. Using the 5 GHz band can often mitigate this.
- Verify antenna connections are secure and not damaged.
- Test the card in a different compatible laptop if possible to rule out system-specific issues.

- **System Instability (e.g., Black Screen, Freezing):**

- This can indicate a compatibility issue with your specific laptop model. Some older or non-standard laptop PCIe implementations may not fully support this card.
- Ensure your laptop's BIOS is updated to the latest version.
- If issues persist, consider reverting to the original wireless card or consulting a professional technician.

## 8. SPECIFICATIONS

<b>Brand</b>	Intel
<b>Model</b>	6235ANHMW (Intel Centrino Advanced-N 6235)
<b>Wireless Standards</b>	802.11a/b/g/n
<b>Frequency Bands</b>	2.4 GHz, 5 GHz
<b>Data Transfer Rate</b>	Up to 300 Mbps
<b>Bluetooth Version</b>	Bluetooth 4.0
<b>Form Factor</b>	Half Mini PCI-E
<b>Hardware Interface</b>	Bluetooth 4.0
<b>Compatible Devices</b>	Laptop (with compatible Mini PCI-E slot)
<b>Product Dimensions</b>	3.5 x 2.5 x 0.1 inches
<b>Item Weight</b>	0.32 ounces (9.07 g)

## 9. WARRANTY AND SUPPORT

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Specific warranty details for this component are typically provided by the original equipment manufacturer (OEM) of the laptop or the reseller. Intel's official stance indicates that these network cards are intended for installation by professional technicians, and direct end-user support for installation or upgrades is not provided by Intel.

For driver downloads and general product information, please visit the official [Intel Support Website](#).

