

Intel 4965AGNMM2WB

Intel 4965AGN Next-Gen Wireless-N PCIe Mini Card Network Adapter User Manual

Model: 4965AGNMM2WB | Brand: Intel

1. INTRODUCTION AND OVERVIEW

The Intel 4965AGN Next-Gen Wireless-N PCIe Mini Card Network Adapter is designed to provide high-speed wireless connectivity for compatible notebook computers. This adapter operates in both the 2.4GHz and 5.0GHz spectrums, delivering enhanced throughput and features for mobile computing environments. It supports the 802.11a/b/g/n wireless standards, offering broad compatibility with existing wireless networks.

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Intel 4965AGN network adapter.

2. KEY FEATURES

- High-speed Wireless-N Connectivity:** Supports draft 802.11n for fast wireless networking in notebook computers.
- MIMO Technology:** Utilizes Multiple-Input Multiple-Output (MIMO) technology to create a robust signal, extending range and reducing dead spots.
- Broad Compatibility:** Capable of connecting to Wireless-G, Wireless-A, and Wireless-B networks (compatible with 802.11B/b/g standards).
- Enhanced Wireless Security:** Features Wi-Fi Protected Access (WPA2) with up to 256-bit encryption for secure wireless communications.
- Dual-Band Operation:** Operates on both 2.4GHz and 5.0GHz frequencies for flexible network access.
- Mini PCI Express Interface:** Designed for easy integration into compatible laptop systems.

3. SETUP AND INSTALLATION

Installing the Intel 4965AGN network adapter requires opening your notebook computer. It is recommended that this procedure be performed by a qualified technician. Always ensure your computer is powered off and disconnected from all power sources before beginning installation.

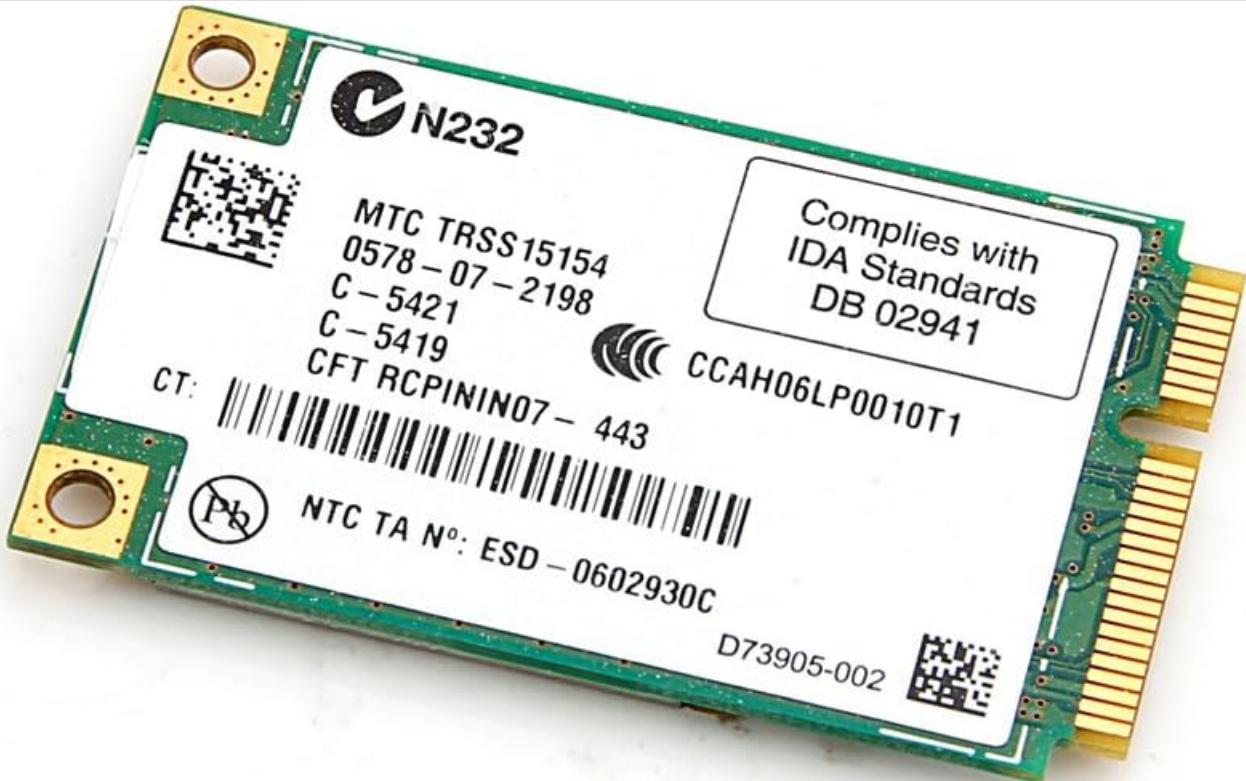


Figure 1: Top view of the Intel 4965AGN Wireless-N PCIe Mini Card Network Adapter, showing the main chip and regulatory markings.

- 1. Prepare Your Notebook:** Power off your notebook computer completely and disconnect the AC adapter and remove the battery.
- 2. Access the Mini PCIe Slot:** Carefully open the access panel on the bottom of your notebook, typically secured by screws, to expose the internal components, including the Mini PCIe slot. Refer to your notebook's service manual for specific instructions on accessing this area.
- 3. Remove Existing Card (if applicable):** If an existing wireless card is present, gently disconnect any antenna cables attached to it. Unscrew the retaining screw(s) and carefully slide the old card out of the slot.
- 4. Insert the New Adapter:** Align the Intel 4965AGN adapter with the Mini PCIe slot. Gently push the card into the slot at an angle until it is fully seated. Press the card down and secure it with the retaining screw(s).
- 5. Connect Antennas:** Carefully connect the antenna cables to the corresponding connectors on the Intel 4965AGN adapter. Typically, there are two or three connectors labeled "MAIN" and "AUX" or numbered. Ensure a secure connection.



Figure 2: Two Intel 4965AGN adapters, illustrating the top and bottom views. The bottom view clearly shows the antenna connection points (1, 2, 3) and the Intel branding.

6. **Reassemble Notebook:** Replace the access panel and secure it with screws. Reinsert the battery and connect the AC adapter.
7. **Power On and Install Drivers:** Power on your notebook. The operating system may automatically detect the new hardware and install generic drivers. For optimal performance, it is recommended to download and install the latest drivers directly from the Intel support website.

4. OPERATING INSTRUCTIONS

Once the Intel 4965AGN adapter is successfully installed and drivers are in place, your notebook will be ready to connect to wireless networks.

1. **Verify Driver Installation:** Open Device Manager (Windows) or System Information (macOS/Linux) and confirm that the Intel 4965AGN Wireless-N adapter is listed and functioning correctly without any error indicators.
2. **Connect to a Wireless Network:**

- Click on the wireless network icon in your system tray (Windows) or menu bar (macOS/Linux).
- A list of available wireless networks (SSIDs) will appear.
- Select your desired network and click "Connect."
- If the network is secured, you will be prompted to enter the network security key (WPA/WPA2 password).
- Once the correct key is entered, your notebook should connect to the wireless network.

3. **Check Connection Status:** After connecting, the wireless icon will typically indicate a successful connection. You can verify internet access by opening a web browser.

5. MAINTENANCE

To ensure optimal performance and longevity of your Intel 4965AGN network adapter, consider the following maintenance tips:

- **Keep Drivers Updated:** Regularly check the Intel support website for the latest driver updates for your 4965AGN adapter. Updated drivers can improve performance, stability, and security.
- **Maintain System Cleanliness:** Ensure your notebook's ventilation ports are clear of dust and debris to prevent overheating, which can affect component performance.
- **Software Updates:** Keep your operating system and security software up to date to protect against vulnerabilities that could impact network security.

6. TROUBLESHOOTING

If you encounter issues with your Intel 4965AGN network adapter, try the following troubleshooting steps:

- **No Wireless Connection:**
 - Ensure Wi-Fi is enabled on your notebook (check physical switch or software settings).
 - Verify that your wireless router is powered on and broadcasting a signal.
 - Restart your notebook and your wireless router.
 - Check Device Manager to ensure the adapter is recognized and has no error codes. Reinstall drivers if necessary.
- **Slow Connection Speed:**
 - Ensure you are within optimal range of your wireless router.
 - Check for interference from other electronic devices (e.g., cordless phones, microwaves).
 - Update your wireless adapter drivers to the latest version.
 - Verify that your router's firmware is up to date.
- **Intermittent Connection:**
 - Check for physical damage to the antenna cables or connectors on the adapter.
 - Ensure the adapter is securely seated in the Mini PCIe slot.
 - Adjust the position of your notebook or router to improve signal strength.

If problems persist, consult your notebook manufacturer's support resources or the Intel support website.

7. SPECIFICATIONS

Attribute	Detail
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Manufacturer	Intel Corporation
Model Number	4965AGNMM2WB
Product Name	4965AGN Next-Gen Wireless-N PCIe Mini Card Network Adapter
Wireless Standards	IEEE 802.11a/b/g/n (draft)
Transmission Speed	Up to 300 Mbps (802.11n), 54 Mbps (802.11g), 11 Mbps (802.11b)
Frequency Band	2.4 GHz and 5.0 GHz
Host Interface	Mini PCIe Express
Dimensions (H x W x T)	1.18" x 2.01" x 0.18" (approx. 30mm x 51mm x 4.5mm)
Weight	0.16 ounces (approx. 4.5 grams)
Compatible Devices	Laptop, Desktop (with compatible Mini PCIe slot)
Hardware Interface	PCI, USB 3.0 (Note: Primary interface is Mini PCIe)
UPC	675900848252, 735858190879

8. SAFETY AND LEGAL INFORMATION

Legal Disclaimer:

All products sold in absolute good faith and condition exactly as described! By purchasing the consumer, client, purchaser, including all associates in "natural and artificial persons/corporations/lccs/trust companies", etc , and beneficiary hereinafter declares and undersigns that all merchandise purchased are acquired solely for beneficial and nondestructive purposes and uses or intentions. The beneficiary equally undersigns and waives all claims relating to health, to risks of handling, secondary and tertiary consequences from the handling of the item. The buyer waives any rights to law suits and claims of any order resulting from the use, handling, and third party OEM disclosures and nondisclosures. Limitations of our law suits for deliberate item destruction all fall under one Million(\$1,000,000) United States Dollars per product and not less than USD \$300,000 per case/litigation. The buyer waives/disclaims/dis-owns any rights to non information.

Always handle electronic components with care. Avoid static discharge by grounding yourself before touching the adapter. Do not attempt to modify the adapter, as this may void any potential warranty and could cause damage to the device or your computer.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Intel 4965AGN network adapter, please refer to the documentation provided with your original purchase or contact the retailer. Intel provides drivers and support resources on its official website.

For technical support, driver downloads, and additional product information, please visit the official Intel support website: www.intel.com/support

