

GIGABYTE GC-WBAX210

GIGABYTE WiFi 6E GC-WBAX210 PCIe Expansion Card User Manual

Model: GC-WBAX210 | Brand: GIGABYTE

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your GIGABYTE WiFi 6E GC-WBAX210 PCIe Expansion Card. This card integrates the Intel WI-FI 6E AX210 module, offering tri-band wireless connectivity (2.4GHz, 5GHz, and 6GHz) and Bluetooth 5.2. It is designed to enhance your desktop's wireless capabilities with high-speed connections and ultra-low latencies.

PACKAGE CONTENTS

- GIGABYTE GC-WBAX210 WiFi/Bluetooth PCIe Card
- AORUS High-Performance 2Tx2R Antenna with magnetic base
- USB Header Cable (for Bluetooth functionality)
- User Manual (this document)



Image: The GIGABYTE GC-WBAX210 WiFi 6E PCIe card, its external antenna, and the internal USB header cable.

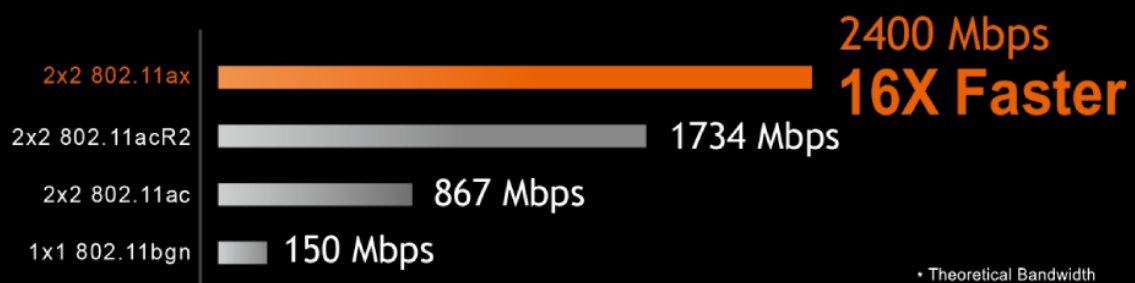
SETUP AND INSTALLATION

Follow these steps to install the GIGABYTE GC-WBAX210 into your desktop computer.

1. **Prepare Your System:** Power off your computer and unplug all cables. Open the computer case.
2. **Install the PCIe Card:** Locate an available PCI Express x1 slot on your motherboard. Carefully insert the GC-WBAX210 card into the slot until it is firmly seated. Secure the card with a screw to the computer case.

Smashes the GbE Barrier!

2x2 802.11ax Tri-Band WIFI + BLUETOOTH 5.2 card GC-WBAX210 is an exclusive PCIe expansion card that offers support for the latest 2x2 802.11ax 160MHz Tri-Band WIFI and BLUETOOTH 5.2 connectivity.



WIFI 6E

802.11 ax

2400 Mbps

**Designed for
Desktop PCIe**

Image: Step-by-step visual guide for installing the PCIe card into a motherboard slot and connecting the internal USB cable.

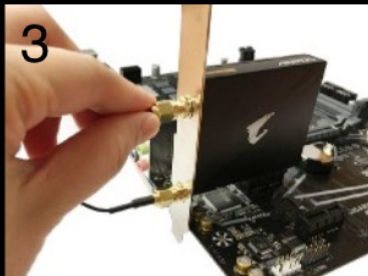
3. **Connect the USB Header Cable:** Connect one end of the provided USB header cable to the USB port on the GC-WBAX210 card. Connect the other end to an available F_USB connector (typically a 9-pin USB 2.0 header) on your motherboard. This connection is essential for Bluetooth functionality.
4. **Attach the Antenna:** Connect the two antenna cables from the AORUS antenna to the corresponding connectors on the back of the GC-WBAX210 card. Tighten them securely. Position the magnetic antenna base in a location that provides optimal signal reception, typically on top of or to the side of your computer case.

How to Install



Step 1: Install the Wi-Fi/Bluetooth card in a PCI Express x1 slot. Connect one end of the USB cable connector on the Wi-Fi/Bluetooth card.

Step 2: Connect the other end of the USB cable to the F_USB connector on the motherboard.



Step 3: Tighten the antenna cables to the antenna connectors on the Wi-Fi/Bluetooth card respectively.

Step 4: Move the antenna to a place where the signal is good.

Image: Visual guide for connecting the external antenna cables to the WiFi card.

5. **Close Case and Power On:** Close your computer case, reconnect all external cables, and power on your system.
6. **Driver Installation:** For Windows 10/11, drivers may install automatically upon booting. If not, download the latest drivers from the official GIGABYTE website for the GC-WBAX210 model.

OPERATING INSTRUCTIONS

Connecting to Wi-Fi

1. After successful driver installation, click the Wi-Fi icon in your system tray (usually in the bottom-right corner of the screen).
2. Select your desired Wi-Fi network (2.4GHz, 5GHz, or 6GHz band).
3. Enter the network password and click "Connect".

Using Bluetooth

1. Ensure the USB header cable is correctly connected for Bluetooth functionality.
2. Go to your computer's Bluetooth settings (e.g., Windows Settings > Devices > Bluetooth & other devices).
3. Turn on Bluetooth and click "Add Bluetooth or other device" to pair with your devices.

MAINTENANCE

- Keep drivers updated by regularly checking the GIGABYTE official website for the latest versions.
- Ensure the antenna is positioned optimally for the best signal reception. Avoid placing it behind large metal objects or in enclosed spaces.
- Periodically clean your computer's interior to prevent dust buildup on the card, which can affect performance and cooling.

TROUBLESHOOTING

No Wi-Fi Connection

- Verify the card is securely seated in the PCIe slot.
- Ensure antenna cables are properly connected and tightened.
- Check if Wi-Fi drivers are installed and updated in Device Manager.
- Restart your computer and your wireless router.

Bluetooth Not Working

- Confirm the USB header cable is correctly connected to both the card and the motherboard.
- Check Bluetooth settings in your operating system to ensure it's enabled and discoverable.
- Update Bluetooth drivers from the GIGABYTE website.

Slow Speeds

- Ensure you are connected to the appropriate Wi-Fi band (6GHz for fastest speeds, if available and supported by your router).
- Check for interference from other wireless devices or physical obstructions between your antenna and router.
- Update your router's firmware to the latest version.
- Verify your internet service provider's speed and ensure it meets your expectations.

SPECIFICATIONS

Feature	Detail
Brand	GIGABYTE
Model	GC-WBAX210
Wireless Standard	IEEE 802.11ax (Wi-Fi 6E)
Frequency Bands	2.4GHz, 5GHz, 6GHz (Tri-Band)
Data Transfer Rate	Up to 2400 Mbps
Bluetooth Version	Bluetooth 5.2
Interface	PCIe x1

Feature	Detail
Antenna	AORUS High-Performance 2Tx2R Antenna with magnetic base
Dimensions (Card)	8.27 x 5.83 x 2.16 inches (approximate)
Weight	9.1 ounces
Compatible Devices	Desktop PCs
UPC	889523026649

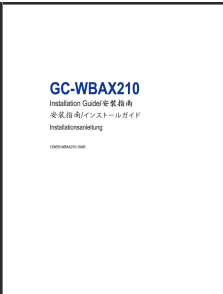
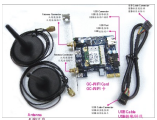
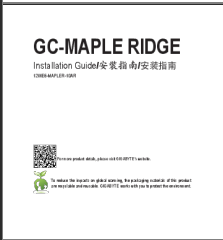
WARRANTY AND SUPPORT

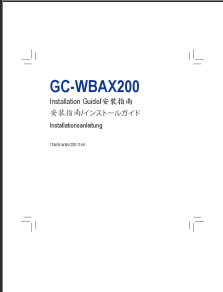
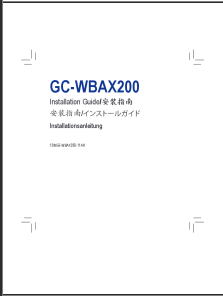
For warranty information and technical support, please visit the official GIGABYTE website or contact their customer service. Keep your purchase receipt for warranty claims and product registration.

GIGABYTE Official Website: www.gigabyte.com

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Related Documents - GC-WBAX210

 GC-WBAX210 Installation Guide 安装指南 无线网卡Wi-Fi/蓝牙安装指南 Installationsanleitung 1000-00000-0000	GIGABYTE GC-WBAX210 Wi-Fi/Bluetooth Card Installation Guide This document provides a comprehensive installation guide for the GIGABYTE GC-WBAX210 Wi-Fi/Bluetooth card, including step-by-step instructions, regulatory notices, and compliance information.
 GC-WIFI Installation Guide 安装指南 无线网卡Wi-Fi安装指南 1000-00000-0000 	GIGABYTE GC-WIFI PCIe Add-in Card Installation Guide Official installation guide for the GIGABYTE GC-WIFI PCIe add-in card (Model: 12WE6-00WIFI-10AR). Learn how to install the card, connect antennas and USB cable, and install drivers. Includes FCC and R&TTE compliance information.
 GC-MAPLE RIDGE Installation Guide 安装指南 雷电4扩展卡安装指南 1000-00000-0000 	GIGABYTE GC-MAPLE RIDGE Thunderbolt 4 Add-in Card Installation Guide Official installation guide for the GIGABYTE GC-MAPLE RIDGE Thunderbolt 4 add-in card. Features product specifications, detailed installation steps, connection diagrams, driver installation, and regulatory compliance information.

	GIGABYTE GC-WBAX200 Wi-Fi/Bluetooth Card Installation Guide Step-by-step installation guide for the GIGABYTE GC-WBAX200 Wi-Fi/Bluetooth PCIe expansion card, including component identification, installation procedures, driver setup, and regulatory compliance information.
	GIGABYTE GC-MAPLE RIDGE Installation Guide Comprehensive installation guide for the GIGABYTE GC-MAPLE RIDGE Thunderbolt 4 add-in card. Covers product specifications, step-by-step installation, driver setup, daisy-chaining configurations, and regulatory compliance information.
	GIGABYTE GC-WBAX200 Wi-Fi/Bluetooth Card Installation Guide This guide provides step-by-step instructions for installing the GIGABYTE GC-WBAX200 Wi-Fi/Bluetooth card, including connecting the card, USB cable, and antennas, as well as driver installation. It also includes regulatory compliance information for various regions.

Documents - GIGABYTE – GC-WBAX210



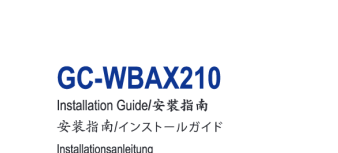
[\[pdf\]](#) Installation Guide

GC WBAX210 Trovaprezzi Questo manuale d istruzione è fornito da trovaprezzi it Scopri tutte le offerte per Gigabyte Install the Wi Fi Bluetooth card in a PCI Express x1 gigabyte gc wbax210 manuali ||| Questo manuale d istruzione fornito da trovaprezzi.it. Scopri tutte le offerte per Gigabyte **GC-WBAX210** o cerca il tuo prodotto tra le migliori offerte di Schede di Rete **GC-WBAX210** Installation Guide/ / Installationsanleitung 12WE6-WBAX210-10AR Installing the Wi-Fi/Bluetooth Card Wi-Fi/ Wi-Fi/ W... lang:en score:44 filesize: 1.38 M page_count: 14 document date: 2021-01-05



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GC WBAX210 20 mai 2023 — Wi Fi PCI Express x1 USB USB Wi PCI x1 mb manual gc wbax210 230217 v 2091a64dcdfce90a499b47202c053460 gigabyte FileList Manual ||| **GC-WBAX210** Installation Guide/ / Installationsanleitung 12WE6-WBAX210-10AR Installing the Wi-Fi/Bluetooth Card Wi-Fi/ Wi-Fi/ Wi-Fi/Bluetooth Installation der Wi-Fi/Bluetooth-Karte Wi-Fi/Bluetooth Card Wi-Fi/ Wi-Fi/ Wi-Fi/Bluetooth Wi-Fi/Bluetooth-Karte USB Connector USB USB USB USB-Ansc... lang:en score:38 filesize: 1.33 M page_count: 14 document date: 2023-02-17



[\[pdf\]](#) Specifications Datasheet Borchure

GIGABYTE GC WBAX210 network card Internal WLAN Bluetooth 2400 Mbit/s Brochure product
datasheet specifications MPN Icecat Intel® Wi-Fi 6E AX210 module built in Dedicated spectrum 6GHz
band for maximum speed and ultra low latenciesGC leafletdata systems fi 5178656 EN 1 srsltid
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GIGABYTE **GC-WBAX210** network card Internal WLAN / Bluetooth 2400 Mbit/s
Brand : GIGABYTE Product name : **GC-WBAX210** Product code: **GC-WBAX210** -
Intel WI-FI 6E AX210 module built-in - Dedicated spectrum in 6GHz band for
maximum speed and ultra-low latencies - Support dual-stream Wireless in the
2.4GH...

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[\[pdf\]](#) User Manual

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PCIe Expansion Card
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GIGABYTE GC-WBAX210 Wi-Fi/Bluetooth Card Installation Guide

This document provides a comprehensive installation guide for the GIGABYTE GC-WBAX210 Wi-Fi/Bluetooth card, including step-by-step instructions, regulatory notices, and compliance information.

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Product Brief

near Wi-Fi 6E AX210 Module

2nd Generation Wi-Fi 6E with Extended Wi-Fi 6E (802.6 Band) support

Intel® Wi-Fi 6E AX210 (Gig+) Module

Maximize speed, latency, and reliability benefits of Wi-Fi 6E across new radio frequencies free from legacy device interference

The Intel® Wi-Fi 6E AX210 Gig+ module is designed to support Wi-Fi 6E technology. The product supports dual antenna Wi-Fi 6E (802.6 Band), 5GHz and 6GHz bands, as well as Bluetooth® 5.2. Also supports Wi-Fi 6E (802.6 Band) including UL MU-MIMO. These new features maximize the benefits of Wi-Fi 6E technology across the 5GHz and 6GHz bands, providing improved performance and reliability across new radio frequencies relative to Wi-Fi 6E devices, and deliver a significant improvement in user experience in dense deployments. Combined with Intel® Core™ processors and exceptional Intel wireless processors, the Intel® Wi-Fi 6E AX210 module can dramatically improve your connected experience at home, work, or on the go.

2nd Generation Intel Wi-Fi 6E Wireless with Extended Wi-Fi 6E (802.6 Band) Support

Greater Network Flexibility

Supports 80MHz channel width

Faster Speed

Supports 160MHz channel width

Reduced Latency

Supports 160MHz channel width

Wi-Fi 6E Certified

Supports 160MHz channel width

The Intel® Wi-Fi 6E AX210 Gig+ module supports Wi-Fi 6E (802.6 Band), 5GHz and 6GHz bands, as well as Bluetooth® 5.2. Also supports Wi-Fi 6E (802.6 Band) including UL MU-MIMO. These new features maximize the benefits of Wi-Fi 6E technology across the 5GHz and 6GHz bands, providing improved performance and reliability across new radio frequencies relative to Wi-Fi 6E devices, and deliver a significant improvement in user experience in dense deployments. Combined with Intel® Core™ processors and exceptional Intel wireless processors, the Intel® Wi-Fi 6E AX210 module can dramatically improve your connected experience at home, work, or on the go.

Bluetooth® 5.2

On top of existing features, Bluetooth® 5.2 includes an enhanced Channel Selection, which helps the Bluetooth® 5.2 Core specification also provides the capability of changing the transmit power.

Microsoft® Windows®

Full support for the latest Windows® 10, Windows® 11 PCs

Form Factors

M.2 2230 and M.2 2242

620013-1

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[pdf] Installation Guide Datasheet Guide Accessories

LogiLink WLAN adapter 2 4GHz 5GHz 6GHz Bluetooth 5 LE PCIe x1 Data sheet Extension Intel Wi Fi 6E AX210 Gig modules 1ef5cdc80ce56fd7037e54b33ee1116722ef gzhl5 at blob ldb e 6 0 GIGABYTE GC WBAX210 starting from £ 75 59 2022 Price Comparison Skinflint UK Installation Guide Accessories Product Brief giadatech vancheerfile files |||

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Price guide

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Cell Phones - Smart Phones	Computer Accessories for branded PCs	Computer Chassis
Computers - desktop - accessories	Computer - parts	Digital cameras
Digital notebooks	Digital projectors	Displays
Drives	Electronic White Boards	Electronics
Fans / Cooling / Lights / Mice	Desktops & Toys	Gaming & GAMERS
Glasses - eyeglasses	GPS	Graphics cards
Health Switches & Broadbanders	Health and safety (COVID-19 specific)	Home Automation / Smart home
Input devices	Home switches & controls	Laptops
LED Lights - and lighting	Mobile systems - Mobile phones / MP4 / DVD	Memory
Monitors	Monitors	Networks - AIO
Mouseborders - total	Music / CD / audio-on cards	Network
Mouseborders - accessories	Mouseborders - carry bags	Mouseborders - Spare Parts
Mouseborders	Office hardware & supplies	Photo frames
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Processors - total	Projectors	Refrigerated products
Scanners	Security cameras	Security cameras
Security products	Servers	Software
Solar Power	Tablet PCs & eBook Readers	Telephones
Theatrical equipment	Tools - Heavy duty & D/I	Tools, bits & sockets
TV - LED - LCD - Plasma televisions	UPS - Voltage regulators - Generators	USB
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Web cams	Wireless hardware	

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A comprehensive listing of products, prices, and descriptions from ComX-Computers and LaptopDirect, including various electronics, home appliances, and accessories. Valid as of June 30, 2021.

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Scanners	Security cameras	Security cameras
Security products	Servers	Software
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