

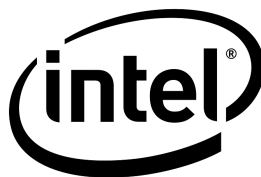


Intel BE200.NGWG.NV Wi-Fi 7 Wireless Network Adapters User Guide

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Intel BE200.NGWG.NV Wi-Fi 7 Wireless Network Adapters



Product Specifications

- Manufacturer: Intel Corporation
- Product: Intel(R) WiFi Adapter
- Supported OS: Windows
- Wireless Standards: 802.11b/g/a/n/ac/ax/be
- Usage: Home and business networking
- Trademark: Intel and Intel logo

FAQs

- **Q: What wireless standards are supported by Intel WiFi Adapters?**
 - A: Intel WiFi Adapters support 802.11b/g/a/n/ac/ax/be standards for wireless connectivity
- **Q: How can I access and modify the settings of the WiFi adapter?**
 - A: To access and modify the settings of the WiFi adapter, navigate to the Device Manager, locate the Intel WiFi adapter under Network adapters, and double-click on it. Then, select the Advanced tab to view and adjust the settings.
- **Q: Is it safe to use the Intel WiFi Adapter in terms of regulatory compliance?**
 - A: Yes, the Intel WiFi Adapters comply with regulatory standards such as FCC requirements for human exposure to RF electromagnetic energy. Follow the safety precautions outlined in the user manual for safe operation.

Intel WiFi Adapter Information Guide

This version of Intel® PROSet/Wireless WiFi Software is compatible with the adapters listed below. Note that newer features provided in this software are generally not supported on older generations of wireless adapters. The following adapters are supported in Windows

- 11* Intel® Wi-Fi 7 BE200 & Intel® Wi-Fi 7 BE202

With your WiFi network card, you can access WiFi networks, share files or printers, or even share your Internet connection. All these features can be explored using a WiFi network in your home or office. This WiFi network solution is designed for both home and business use. Additional users and features can be added as your networking needs grow and change. This guide contains basic information about Intel adapters. Intel® wireless adapters enable fast connectivity without wires for desktop and notebook PCs.

- Adapter Settings
- Regulatory and Safety
- Information Specifications
- Support
- Warranty

Depending on the model of your Intel WiFi adapter, your adapter is compatible with 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax, and 802.11be wireless standards. Operating 2.4GHz, 5GHz, or 6GHz (in countries allowing it) frequency, you can now connect your computer to existing high-speed networks that use multiple access points within large or small environments. Your WiFi adapter maintains automatic data rate control according to the access point location and signal strength to achieve the fastest possible connection.

Information in this document is subject to change without notice

Intel Corporation assumes no responsibility for errors or omissions in this document. Nor does Intel make any commitment to update the information contained herein.

IMPORTANT NOTICE FOR ALL USERS OR DISTRIBUTORS:

Intel wireless LAN adapters are engineered, manufactured, tested, and quality-checked to ensure that they meet all necessary local and governmental regulatory agency requirements for the regions that they are designated and/or marked to ship into. Because wireless LANs are generally unlicensed devices that share spectrum with radars, satellites, and other licensed and unlicensed devices, it is sometimes necessary to dynamically detect, avoid, and limit usage to avoid interference with these devices. In many instances, Intel is required to provide test data to prove regional and local compliance to regional and governmental regulations before certification or approval to use the product is granted. Intel's wireless LAN's EEPROM, firmware, and software driver are designed to carefully control parameters that affect radio operation and to ensure electromagnetic compliance (EMC). These parameters include, without limitation, RF power, spectrum usage, channel scanning, and human exposure.

For these reasons, Intel cannot permit any manipulation by third parties of the software provided in binary format with the wireless LAN adapters (e.g., the EEPROM and firmware). Furthermore, if you use any patches, utilities, or code with the Intel wireless LAN adapters that have been manipulated by an unauthorized party (i.e., patches, utilities, or code (including open source code modifications) that have not been validated by Intel), (i) you will be solely responsible for ensuring the regulatory compliance of the products, (ii) Intel will bear no liability, under any theory of liability for any issues associated with the modified products, including without limitation, claims under the warranty and/or issues arising from regulatory non-compliance, and (iii) Intel will not provide or be required to assist in providing support to any third parties for such modified products.

Note: Many regulatory agencies consider Wireless LAN adapters to be “modules”, and accordingly, condition systemlevel regulatory approval upon receipt and review of test data documenting that the antennas and system configuration do not cause the EMC and radio operation to be non-compliant.

Adapter Settings

The Advanced tab displays the device properties for the WiFi adapter installed on your computer.

How to Access

Double-click on the Intel WiFi adapter in the Network Adapters section of the Device Manager and select the Advanced tab. A description of the WiFi adapter settings on the Advanced tab can be found here:

<https://www.intel.com/content/www/us/en/support/articles/000005585/network-and-i-o/wireless-networking.html>.

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Trademarks and Disclaimers

Regulatory Information

This section provides regulatory information for the following wireless adapters:

- Intel® Wi-Fi 7 BE200
- Intel® Wi-Fi 7 BE202

NOTE: Due to the evolving state of regulations and standards in the wireless LAN field (IEEE 802.11 and similar standards), the information provided herein is subject to change. Intel Corporation assumes no responsibility for errors or omissions in this document.

Intel WiFi Adapters – 802.11b/g/a/n/ac/ax/be, Compliant

The information in this section applies to the following products:

Intel® Wi-Fi 7 BE200

See Specifications for complete wireless adapter specifications.

NOTE: In this section, all references to the “wireless adapter” refer to all adapters listed above.

The following information is provided:

- Information for the User
- Regulatory Information
- Regulatory ID
- Information for OEMs and Host Integrators
- Statements of European Compliance

FCC

Safety Notices

USA FCC Radio Frequency Exposure

The FCC with its action in ET Docket 96-8 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC-certified equipment. The wireless adapter meets the Human Exposure requirements found in FCC Part 2, 15C, 15E along with guidance from KDB 447498, KDB 248227, and KDB 616217. Proper operation of this radio according to the instructions found in this manual will result in exposure substantially below the FCC's recommended limits.

- The following safety precautions should be observed:
- Do not touch or move the antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes while transmitting.
- Do not operate the radio or attempt to transmit data unless the antenna is connected; this behavior may cause damage to the radio.

Use in specific environments:

- The use of wireless adapters in hazardous locations is limited by the constraints posed by the safety directors of such environments.
- The use of wireless adapters on airplanes is governed by the Federal Aviation Administration (FAA).
- The use of wireless adapters in hospitals is restricted to the limits set forth by each hospital.

Explosive Device Proximity Warning

Warning: Do not operate a portable transmitter (including this wireless adapter) near unshielded blasting caps or in an explosive environment unless the transmitter has been modified to be qualified for such use.

Antenna Warnings

- **Warning:** The wireless adapter is not designed for use with high-gain directional antennas.

Use On Aircraft Caution

- **Caution:** Regulations of commercial airline operators may prohibit airborne operation of certain electronic devices equipped with radio-frequency wireless devices (wireless adapters) because their signals could interfere with critical aircraft instruments.
- **Caution:** Operation of a transmitter in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems

Other Wireless Devices

- Safety Notices for Other Devices in the Wireless Network: See the documentation supplied with wireless adapters or other devices in the wireless network.

Wireless Interoperability

The wireless adapter is designed to be interoperable with other wireless LAN products that are based on direct sequence spread spectrum (DSSS) radio technology and to comply with the following standards:

- IEEE Std. 802.11b compliant Standard on Wireless LAN
- IEEE Std. 802.11g compliant Standard on Wireless LAN
- IEEE Std. 802.11a compliant Standard on Wireless LAN
- IEEE Std. 802.11n compliant Standard on Wireless LAN
- IEEE Std. 802.11ac compliant on Wireless LAN
- IEEE Std. 802.11ax compliant on Wireless LAN
- IEEE Std. 802.11be compliant Standard on Wireless LAN
- Wireless Fidelity certification, as defined by the Wi-Fi Alliance.

The Wireless Adapter and Your Health

The wireless adapter, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by the wireless adapter, however, is less than the electromagnetic energy emitted by other wireless devices such as mobile phones. The wireless adapter operates within the guidelines found in radio frequency safety standards and recommendations. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. In some situations or environments, the use of the wireless adapter may be restricted by the proprietor of the building or responsible representatives of the applicable organization.

Examples of such situations may include:

- Using the wireless adapter on board airplanes, or
- Using the wireless adapter in any other environment where the risk of interference with other devices or services is perceived or identified as being harmful.

If you are uncertain of the policy that applies to the use of wireless adapters in a specific organization or environment (an airport, for example), you are encouraged to ask for authorization to use the adapter before you turn it on.

REGULATORY INFORMATION

USA – Federal Communications Commission (FCC)

This wireless adapter is restricted to indoor use due to its operation in the following frequency ranges. 5.85 to 5.895 and 5.925 to 6.425GHz and 6.875GHz to 7.125GHz frequency ranges. No configuration controls are provided for Intel® wireless adapters allowing any change in the frequency of operations outside the FCC grant of authorization for U.S. operation according to Part 15.407 of the FCC rules.

- Intel® wireless adapters are intended for OEM integrators only.
- Intel® wireless adapters cannot be co-located with any other transmitter unless approved by the FCC.
- This wireless adapter complies with Part 15 of the FCC Rules. Operation of the device is subject to the following two conditions:
- This device may not cause harmful interference.
- This device must accept any interference that may cause undesired operation.

NOTE: The radiated output power of the adapter is far below the FCC radio frequency exposure limits. Nevertheless, the adapter should be used in such a manner that the potential for human contact during normal operation is minimized. To avoid the possibility of exceeding the FCC radio frequency exposure limits, you should keep a distance of at least 20cm between you (or any other person in the vicinity), or the minimum separation

distance as specified by the FCC grant conditions, and the antenna that is built into the computer. Details of the authorized configurations can be found at <http://www.fcc.gov/oet/ea/> by entering the FCC ID number on the device.

Class B Device Interference Statement

This wireless adapter has been tested and found to comply with the limits for a Class B digital device, under Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This wireless adapter generates, uses, and can radiate radio frequency energy. If the wireless adapter is not installed and used by the instructions, the wireless adapter may cause harmful interference to radio communications. There is no guarantee, however, that such interference will not occur in a particular installation. If this wireless adapter does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by taking one or more of the following measures:

- Reorient or relocate the receiving antenna of the equipment experiencing the interference.
- Increase the distance between the wireless adapter and the equipment experiencing the interference.
- Connect the computer with the wireless adapter to an outlet on a circuit different from that to which the equipment experiencing the interference is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The adapter must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. Any other installation or use will violate FCC Part 15 regulations.

Safety Approval Considerations

This device has been safety-approved as a component and is for use only in complete equipment where the acceptability of the combination is determined by the appropriate safety agencies. When installed, consideration must be given to the following:

- It must be installed into a compliant host device meeting the requirement of UL/EN/IEC 62368-1 including the general provisions of enclosure design 1.6.2 and specifically paragraph 1.2.6.2 (Fire E n c l o s u r e).
- The device shall be supplied by a SELV source when installed in the end-use equipment.
- A heating test shall be considered in the end-use product to meet the requirement of UL/EN/IEC 62368-1.

Low Halogen

Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meets IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

Canada – Industry Canada (IC)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Caution: When using a 5GHz band for wireless LAN, this product is restricted to indoor use due to its operation in the 5.15- to 5.25- GHz and 5.85GHz to 5.895 GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15GHz to 5.25GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High-power radar is allocated as the primary user of the 5.25- to 5.35-GHz and 5.65 to 5.85-GHz bands. These radar stations can cause interference with and/or damage to this device. The maximum allowed antenna gain for use with this device is 6dBi to comply with the E.I.R.P limit for the 5.25- to 5.35 and 5.725 to 5.85GHz frequency range in point-to-point operation. To comply with RF exposure requirements all antennas should be located at a minimum distance of 20cm, or the minimum separation distance allowed by the module approval, from the body of all persons. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

European Union

- The low band 5.15 – 5.35GHz is for indoor use only.
- The 6E band 5.925 – 6.425GHz is for Low Power in-door (LPI)



This equipment complies with the essential requirements of the European Union directive 2014/53/EU. See Statements of European Union Compliance.

European Union Declarations of Conformity

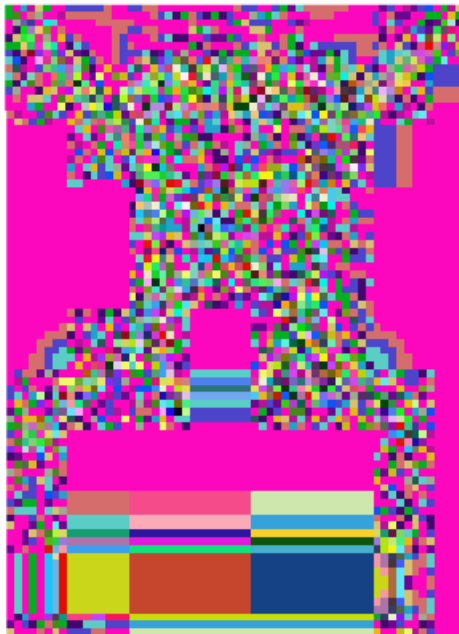
To view the European Union Declaration of Conformity for your adapter, perform these steps.

- Open this website: <http://www.intel.com/content/www/us/en/support/network-and-i-o/wireless-networking/000007443.html>.
- Click on "User Guide."
- Scroll to your adapter.

To view additional regulatory information for your adapter, perform these steps:

- Open this website: <http://www.intel.com/content/www/us/en/support/network-and-i-o/wireless-networking/000007443.html>
- Click on the link for your adapter.
- Click on the Regulatory Marking Document for your adapter.

Waste Electrical and Electronic Equipment Directive (WEEE)



Restriction of Hazardous Substances Directive (RoHS) Compliant

All products described herein are compliant with the European Union's RoHS Directive. For CE Mark-Related Questions related to the wireless adapter, contact: Intel Corporation Attn: Corporate Quality 2200 Mission College Blvd. Santa Clara, CA 95054-1549 USA

Japan

5GHz band (W52, W53) and 6GHz (LPI): Indoor use only (Except communicating to W52 high-power radio)



Pakistan

"PTA APPROVED MODEL"

Radio Approvals

To determine whether you are allowed to use your wireless network device in a specific country, please check to see if the radio type number that is printed on the identification label of your device is listed in the manufacturer's OEM Regulatory Guidance document.

Modular Regulatory Certification Country Markings

A list of countries requiring regulatory markings is available. Note that the lists include only countries requiring marking but not all certified countries. To find the regulatory country marking information for your adapter, perform these steps:

1. Open this web site: <http://www.intel.com/content/www/us/en/support/network-and-i-o/wireless-networking/000007443.html>
2. Click on the link for your adapter.

3. Click on the Regulatory Marking Document for your adapter.

Intel® Wi-Fi 7 BE200 (BE200NGW, BE200D2W) & Intel® Wi-Fi 7 BE202 (BE200NGW M, BE200D2W M)

Due to the very small size of the modules, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

Argentina:



- Model BE200NGW: C-29824
- Model BE200D2W: C-29823
- **Australia:**



• **Brazil:**

- Model BE200NGW: 06538-23-04423



06538-23-04423

- Model BE200D2W: 06539-23-04423



• **Canada:**

- Model BE200NGW: IC: 1000M-BE200NG
- Model BE200D2W: IC: 1000M-BE200D2

• **China Mainland:**

- BE200NGW: CMIIT ID: 2023AJ15349(M)
- BE200NGW M: CMIIT ID: 2023AJ15347(M)
- BE200D2W: CMIIT ID: 2023AJ15365(M)
- BE200D2W M: CMIIT ID: 2023AJ15441(M)

Europe:

Model BE200NGW, BE200D2W:



Software Version	Intel® PROSet/Wireless WiFi Software 23.x and subsequent versions
Maximum Power Output	
(2400 – 2483.5 MHz) IEEE802.11 b/g/n/ax/be mode Bluetooth	20dBm EIRP max (100mW)
(2400 – 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 – 5725 MHz) IEEE802.11 a/n/ac/ax/be mode	23dBm EIRP max (200mW) The low band 5.15 – 5.35 GHz is for indoor use only
(5725 – 5875 MHz) IEEE802.11 a/n/ac/ax/be mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating at 5.8 GHz is considered a category 1 receiver.
(5925 – 6425 MHz) IEEE802.11 ax/be	23 dBm EIRP max (200mW) The band 5.925 – 6.425GHz is for LPI (Low Power in-door)

This equipment complies with the essential requirements of the European Union directive 2014/53/EU.



Indonesia:

Model BE200NGW

Model BE200NGW

	92901/SDPPI/2023 7965	
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Model BE200D2W

	92868/SDPPI/2023 7965	
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Indonesia:

Model BE200NGW M









Model BE200NGW M

	92865/SDPPI/2023 7965	
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Model BE200D2W M

	92947/SDPPI/2023 7965	
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Japan:

Model BE200NGW <ul style="list-style-type: none"> • RF : 003-230203 • TEL : D230105003   R003-230203 5.15-5.35 GHz & 6GHz LPI: Indoor use only (Except communicate to high power radio) T D230105003	Model BE200D2W <ul style="list-style-type: none"> • RF : 003-230204 • TEL : D230106003   R003-230204 5.15-5.35 GHz & 6GHz LPI: Indoor use only (Except communicate to high power radio) T D230106003
Model BE200NGW only: 320MHz upgrade: (RF: 003-240052)   R003-240052 5.15-5.35 GHz & 6GHz LPI: Indoor use only (Except communicate to high power radio) T D230105003	Model BE200D2W only: 320MHz upgrade: (RF: 003-240053)   R003-240053 5.15-5.35 GHz & 6GHz LPI: Indoor use only (Except communicate to high power radio) T D230106003
5GHz band (W52, W53) and 6GHz (LPI): Indoor use only (Except communicate to W52 high power radio)	

New Zealand:



Pakistan:



- Model BE200NGW: APPROVED BY PTA: 9.697/2023
- Model BE200D2W: APPROVED BY PTA: 9.696/2023

Paraguay:



- Model BE200NGW: 2023-09-I-0619
- Model BE200D2W: 2023-09-I-0618

Singapore:



- Model BE200NGW, BE200D2W

Taiwan Region:



- Model BE200NGW: CCAH23Y10480T7
- Model BE200NGW M: CCAH23Y10500T0
- Model BE200D2W: CCAH23Y10470T4
- Model BE200D2W M: CCAH23Y10490T0

United Kingdom (UK):



USA:

- Model BE200NGW: FCC ID: PD9BE200NG
- Model BE200D2W: FCC ID: PD9BE200D2

INFORMATION FOR OEMS and HOST INTEGRATORS

The guidelines described within this document are provided to OEM integrators installing Intel® wireless adapters in notebook and tablet PC host platforms. Adherence to these requirements is necessary to meet the conditions of compliance with FCC rules, including RF exposure. When all antenna type and placement guidelines described herein are fulfilled the Intel® wireless adapters may be incorporated into notebook and tablet PC host platforms with no further restrictions. If any of the guidelines described herein are not satisfied it may be necessary for the OEM or integrator to perform additional testing and/or obtain additional approval. The OEM or integrator is responsible for determining the required host regulatory testing and/or obtaining the required host approvals for compliance. If needed, please contact the applicant/grantee (Intel) regarding detailed information on how to set up the device for any compliance testing that the OEM integrator is responsible for per KDB 996369 D04.

- Intel® wireless adapters are intended for OEMs and host integrators only.
- The Intel® wireless adapter FCC Grant of Authorization describes any limited conditions of modular approval.
- The Intel® wireless adapters must be operated with an access point that has been approved for the country of operation.
- Changes or modifications to Intel® wireless adapters by OEMs, integrators, or other third parties are not permitted. Any changes or modifications to Intel® wireless adapters by OEMs, integrators, or other third parties will void authorization to operate the adapter.
- Brazil: Information to be supplied to the End User by the OEMs and Integrators: “Incorporates product approved by Anatel under number HHHH-AA-FFFFF.” (Intel Module made in China Mainland/Taiwan Region/Vietnam/India).

Antenna Type and Gains

Only antennas of the same type and with equal or less gains as 3dBi for the 2.4GHz band and 5dBi for the 5GHz and 6-7GHz bands shall be used with the Intel® wireless adapters. Other types of antennas and/or higher gain antennas may require additional authorization for operation. For testing purposes, the following dual-band antenna that approximates closely the above limits was used:

Antenna Peak gain with cable loss (dB)										
Antenna type	2.4GHz	5.2GHz	5.3GHz	5.6GHz	5.8GHz	5.9GHz	6.2GHz	6.5GHz	6.7GHz	7.0GHz
PIFA	2.95	5.11	4.55	5.15	5.13	4.45	5.02	5.02	4.96	4.96
Dipole	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
Monopole	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79
Modules: BE200NGW, BE200D2W										

Above 6GHz. 3D Peak Antenna Gain tested within the host should be equal to or greater than -2 dBi. If the host antenna design is the same type with a measured peak antenna gain lower than -2 dBi, then CBP(FCC)/EDT(EU) testing must be performed while the module is installed in the host.

Simultaneous Transmission of Intel® Wireless Adapters with Other Integrated or Plug-In Transmitters

Based upon FCC Knowledge Database publication number 616217, when there are multiple transmitting devices

installed in a host device, an RF exposure transmitting assessment shall be performed to determine the necessary application and test requirements. OEM integrators must identify all possible combinations of simultaneous transmission configurations for all transmitters and antennas installed in the host system. This includes transmitters installed in the host as mobile devices (>20 cm separation from the user) and portable devices (<20 cm separation from the user). OEM integrators should consult the actual FCC KDB 616217 document for all details in making this assessment to determine if any additional requirements for testing or FCC approvals are necessary.

Antenna Placement Within the Host Platform

To ensure RF exposure compliance the antenna(s) used with the Intel® wireless adapters must be installed in notebook or tablet PC host platforms to provide a minimum separation distance from all persons, in all operating modes and orientations of the host platform, with strict adherence to the table below. The antenna separation distance applies to both the horizontal and vertical orientation of the antenna when installed in the host system. Any separation distances less than those shown will require additional evaluation and FCC authorization. For WiFi/Bluetooth combination adapters it is recommended that a 5 cm separation distance between transmitting antennas be Regulatory Information provided within the host system to maintain an adequate separation ratio for simultaneous WiFi and Bluetooth transmission. For less than 5 cm separation the separation ratio must be verified according to FCC publication KDB 447498 for the specific adapter.

	The minimum required antenna-to-user separation distance for a Pifa antenna	
Wireless Adapter	Using a PIFA antenna	using a Dipole/Monopole antenna
Intel® Wi-Fi 7 BE200 (BE200N GW)	45mm	200 mm
Intel® Wi-Fi 7 BE200 (BE200D 2W)	45mm	200 mm
* This wireless adapter may be installed in mobile devices only (requires > 20 cm antenna separation from the body of the user).		
The Monopole and Dipole antennas are certified under mobile configurations and require > 20 cm separation from the body of the user.		

Information To Be Supplied to the End User by the OEM or Integrator

The following regulatory and safety notices must be published in documentation supplied to the end user of the product or system incorporating the Intel® wireless adapter, in compliance with local regulations. The host system must be labeled with “Contains FCC ID: XXXXXXXX” and, the FCC ID displayed on the label.

The wireless adapter must be installed and used in strict accordance with the manufacturer’s instructions as described in the user documentation that comes with the product. For country-specific approvals, see Radio Approvals. Intel Corporation is not responsible for any radio or television interference caused by unauthorized modification of the devices included with the wireless adapter kit or the substitution or attachment of connecting cables and equipment other than that specified by Intel Corporation. The correction of interference caused by such unauthorized modification, substitution, or attachment is the responsibility of the user. Intel Corporation and authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from the user failing to comply with these guidelines.

Local Restriction of 802.11b/g/a/n/ac/ax/be Radio Usage

The following statement on local restrictions must be published as part of the compliance documentation for all 802.11b/g/a/n/ac/ax/products.

Caution: Because the frequencies used by 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax and 802.11be wireless LAN devices may not yet be harmonized in all countries, 802.11a, 802.11b, 802.11g and 802.11n, 802.11ac, 802.11ax and 802.11be products are designed for use only in specific countries, and are not allowed to be operated in countries other than those of designated use. As a user of these products, you are responsible for ensuring that the products are used only in the countries for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country of use. Any deviation from permissible settings and restrictions in the country of use could be an infringement of national law and may be punished as such.

Statements of European Compliance

Each of the adapters listed below complies with the essential requirements of the European Union directive 2014/53/EU. Intel® Wi-Fi 7 BE200: Models BE200NGW/BE200D2W

Specifications

This section provides specification information for the family of Intel® wireless adapters. The following list may not be all-inclusive.

- Intel® Wi-Fi 7 BE200

Intel® Wi-Fi 7 BE200 (BE200NGW/BE200D2W)

General	
Dimensions (H x W x D)	M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)] M.2 1216: 12 mm x 16 mm x 1.7(±0.1) mm
Weight	M.2 2230: 2.83 (±0.3) g M.2 1216: 0.67 (±0.1) g
Radio ON/OFF Control	Supported
Connector Interface	M.2: PCIe*, USB
Operating Temperature (Ambient)	0 to +50 degrees Celsius
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)
Operating Systems	Microsoft Windows 11*, Microsoft Windows 10*, Linux*

Wi-Fi Alliance* certification	Wi-Fi 7 Technology support, Wi-Fi CERTIFIED* 6 with Wi-Fi 6E, Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA3*, PMF*, Wi-Fi Direct*, Wi-Fi Agile Multiband*, and Wi-Fi Location R2 HW readiness	
IEEE WLAN Standard	IEEE 802.11-2020 and select amendments (selected feature coverage) IEEE 802.11a, b, d, e, g, h, i, k, n, r, u, v, w, ac, ax, be; Fine Timing Measurement based on 802.11-2016 Wi-Fi Location R2 (802.11az) HW readiness	
Bluetooth	Bluetooth* 5.4	
Security		
Authentication	WPA3* personal and enterprise WPA2* transition mode	
Authentication Protocols	802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')	
Encryption	128-bit AES-CCMP, 256-bit AES-GCMP	
Compliance		
Regulatory	For a list of country approvals, please contact your local Intel representatives.	
US Government	FIPS 140-2	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
Model Numbers		
Models	BE200NGW	Wi-Fi 7, 2x2, Bluetooth* 5.4, M.2 2230
	BE200D2W	Wi-Fi 7, 2x2, Bluetooth* 5.4, M.2 1216

Frequency Modulation	6-7GHz (802.11ax R2) (802.11be)	5GHz (802.11a/n/ac/ax/be)	2.4GHz (802.11b/g/n/ax/be)
Frequency band	FCC : 5.925GHz-7.125GHz E U: 5925GHz- 6.425GHz (dependent on country)	5.15GHz – 5.895GHz (dependent on country)	2.400 – 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM, 4 K-QAM (4096-QAM)	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM . 4K-QAM (4096-QAM)	CCK, DQPSK, DBPSK, 16 Q AM, 64 QAM, 256 QAM, 1024 QAM, 4K-QAM (4096-
Wireless Medium	6-7GHz: Orthogonal Frequency Division Multiple Access (OFDMA)	5GHz UNII: Orthogonal Frequency Division Multiple Access (OFDMA)	2.4GHz ISM: Orthogonal Frequency Division Multiple Access (OFDMA)
Channels	All channels as defined by the relevant specifications and country rules.		
Data Rates	All data rates are theoretical maximums.		
IEEE 802.11be Data Rates	Up to 5 Gbps		
IEEE 802.11ax Data Rates	Up to 2.4 Gbps		
IEEE 802.11ac Data Rates	Up to 867 Mbps		
IEEE 802.11n Data Rates	Tx/Rx (Mbps): 300, 270, 243, 240, 216.7, 195, 180, 173.3, 150, 144, 135, 130, 120, 117, 115.5, 90, 86.667, 72.2, 65, 60, 57.8, 45, 43.3, 30, 28.9, 21.7, 15, 14.4, 7.2		
IEEE 802.11a Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps		
IEEE 802.11g Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps		
IEEE 802.11b Data Rates	11, 5.5, 2, 1 Mbps		

Customer Support

- Intel support is available online or by telephone. Available services include the most up-to-date product

information, installation instructions about specific products, and troubleshooting tips.

Online Support

- Technical Support: <http://www.intel.com/support>
- Network Product Support: <http://www.intel.com/network>
- Corporate Web Site: <http://www.intel.com>

Warranty Information

One-Year Limited Hardware Warranty

Limited Warranty

In this warranty statement, the term “Product” applies to the wireless adapters listed in the Specifications. Intel warrants to the purchaser of the Product that the Product if properly used and installed, will be free from defects in material and workmanship and will substantially conform to Intel’s publicly available specifications for the Product for one (1) year beginning on the date the Product was purchased in its original sealed packaging.

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Limited Warranty, Intel, at its option, will:

- REPAIR the Product using hardware and/or software; OR
- REPLACE the Product with another product, OR, if Intel is unable to repair or replace the Product,
- REFUND the then-current Intel price for the Product at the time a claim for warranty service is made to Intel under this Limited Warranty.

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Extent of Limited Warranty

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improper or unauthorized installation or improper testing, or (iii) any Product which has been modified or operated outside of Intel's publicly available specifications or where the original product identification markings (trademark or serial number) have been removed, altered or obliterated from the Product; or (iv) issues resulting from modification (other than by Intel) of software products provided or included in the Product, (v) incorporation of software products, other than those software products provided or included in the Product by Intel, or (vi) failure to apply Intel-supplied modifications or corrections to any software provided with or included in the Product.

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To obtain warranty service for the Product, you may contact your original place of purchase by its instructions or you may contact Intel. To request warranty service from Intel, you must contact the Intel Customer Support ("ICS") center in your region (<http://www.intel.com/support/wireless/>) within the warranty period during normal business hours (local time), excluding holidays, and return the Product to the designated ICS center. Please be prepared to provide: (1) your name, mailing address, email address, telephone numbers, and, in the USA, valid credit card information; (2) proof of purchase; (3) model name and product identification number found on the Product; and (4) an explanation of the problem. The Customer Service Representative may need additional information from you depending on the nature of the problem. Upon ICS's verification that the Product is eligible for warranty service, you will be issued a Return Material Authorization ("RMA") number and provided with instructions for returning the Product to the designated ICS center. When you return the Product to the ICS center, you must include the RMA number on the outside of the package. Intel will not accept any returned Product without an RMA number, or that has an invalid RMA number, on the package. You must deliver the returned Product to the designated ICS center in the original or equivalent packaging, with shipping charges pre-paid (within the USA), and assume the risk of damage or loss during shipment. Intel may elect to repair or replace the Product with either a new or reconditioned Product or components, as Intel deems appropriate. The repaired or replaced product will be shipped to you at the expense of Intel within a reasonable period after receipt of the returned Product by ICS. The returned Product shall become Intel's property on receipt by ICS. The replacement product is warranted under this written warranty and is subject to the same limitations of liability and exclusions for ninety (90) days or the remainder of the original warranty period, whichever is longer. If Intel replaces the Product, the Limited Warranty period for the replacement Product is not extended.

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WEEE

Warranty Information



[warranty.htm](#)[5/23/2023 2:49:30 PM]

Documents / Resources

	Intel BE200.NGWG.NV Wi-Fi 7 Wireless Network Adapters [pdf] User Guide BE200.NGWG.NV, BE202, BE200.NGWG.NV Wi-Fi 7 Wireless Network Adapters, BE200.NGWG.NV, Wi-Fi 7 Wireless Network Adapters, 7 Wireless Network Adapters, Wireless Network Adapters, Network Adapters, Adapters
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References

- [FCC Equipment Authorization | Federal Communications Commission](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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