

# 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\* 10:

- Intel® Wi-Fi 7 BE202
- Intel® Wi-Fi 7 BE200
- Intel® Wi-Fi 6E AX411
- Intel® Wi-Fi 6E AX211
- Intel® Wi-Fi 6E AX210
- Intel® Wi-Fi 6 AX203
- Intel® Wi-Fi 6 AX201
- Intel® Wi-Fi 6 AX200
- Intel® Wi-Fi 6 AX101
- Intel® Wireless-AC 9560
- Intel® Wireless-AC 9462
- Intel® Wireless-AC 9461
- Intel® Wireless-AC 9260
- Intel® Dual Band Wireless-AC 8265
- Intel® Dual Band Wireless-AC 8260
- Intel® Dual Band Wireless-AC 3168
- Intel® Dual Band Wireless-AC 7265
- Intel® Dual Band Wireless-N 7265
- Intel® Wireless-N 7265
- Intel® Dual Band Wireless-AC 3165

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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 and 802.11ax wireless standards. Operating at 5GHz or 2.4GHz 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.

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## **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) which 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 system-level 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.

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\*Other names and brands may be claimed as the property of others.

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August 2023



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## Regulatory Information

This section provides regulatory information for the following wireless adapters:

- [Intel® Dual Band Wireless-AC 3165](#)
- [Intel® Dual Band Wireless-AC 3168](#)
- [Intel® Dual Band Wireless-AC 7265](#)
- [Intel® Dual Band Wireless-N 7265](#)
- [Intel® Wireless-N 7265](#)
- [Intel® Dual Band Wireless-AC 8260](#)
- [Intel® Dual Band Wireless-AC 8265](#)
- [Intel® Wireless-AC 9260](#)
- [Intel® Wireless-AC 9461](#)
- [Intel® Wireless-AC 9462](#)
- [Intel® Wireless-AC 9560](#)
- [Intel® Wi-Fi 6 AX101](#)
- [Intel® Wi-Fi 6 AX200](#)
- [Intel® Wi-Fi 6 AX201](#)
- [Intel® Wi-Fi 6 AX203](#)
- [Intel® Wi-Fi 6E AX210](#)
- [Intel® Wi-Fi 6E AX211](#)
- [Intel® Wi-Fi 6E AX411](#)
- [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 - 802.11n, 802.11ac and 802.11ax Compliant

The information in this section applies to the following products:

- Intel® Dual Band Wireless-AC 3165
- Intel® Dual Band Wireless-AC 3168
- Intel® Dual Band Wireless-AC 7265
- Intel® Dual Band Wireless-N 7265
- Intel® Wireless-N 7265
- Intel® Dual Band Wireless-AC 8260
- Intel® Dual Band Wireless-AC 8265
- Intel® Wireless-AC 9260
- Intel® Wireless-AC 9461
- Intel® Wireless-AC 9462
- Intel® Wireless-AC 9560
- Intel® Wi-Fi 6 AX101
- Intel® Wi-Fi 6 AX200
- Intel® Wi-Fi 6 AX201
- Intel® Wi-Fi 6 AX203
- Intel® Wi-Fi 6E AX210
- Intel® Wi-Fi 6E AX211
- Intel® Wi-Fi 6E AX411
- Intel® Wi-Fi 7 BE200
- Intel® Wi-Fi 7 BE202

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](#)

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## INFORMATION FOR THE USER

### 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 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:** 60 GHz/802.11ad equipment is not permitted on aircraft per FCC §15.255. OEM and host integrators should consider this FCC rule in host devices.

 **Caution:** Operation of 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.

## Local Restrictions on 802.11a, 802.11b, 802.11d, 802.11g, 802.11n, and 802.11ac Radio Usage

 **Caution:** Due to the fact that the frequencies used by 802.11a, 802.11b, 802.11d, 802.11g, 802.11n, and 802.11ac wireless LAN devices may not yet be harmonized in all countries, 802.11a, 802.11b, 802.11d, 802.11g, 802.11n, and 802.11ac 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. The device transmit power control (TPC) interface is part of the Intel® PROSet/Wireless WiFi Connection Utility Software. Operational restrictions for Equivalent Isotropic Radiated Power (EIRP) are provided by the system manufacturer. Any deviation from the permissible power and frequency settings for the country of use is an infringement of national law and may be punished as such.

## 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 draft compliant 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.

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## 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 GHz and 5.925 to 6.425 GHz and 6.875 to 7.125 GHz 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, pursuant to 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 in accordance with 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.

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## 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 Enclosure).
- 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 for meeting the requirement of UL/EN/IEC 62368-1.

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## 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 meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

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## Canada – Industry Canada (IC)

This device complies with Industry Canada licence-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.

Cet appareil se conforme aux normes Canada d'Industrie de RSS permis-exempt. L'utilisation est assujetti aux deux conditions suivantes: (1) cet appareil ne peut pas causer d'interférences, et (2) cet appareil doit accepter des interférences , y compris des interférences qui peuvent causer des opérations non désirées de l'appareil.

**Caution:** When using IEEE 802.11a wireless LAN, this product is restricted to indoor use due to its operation in the 5.15- to 5.25-GHz and 5.85 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 in order 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.

Attention: l'utilisation d'un réseau sans fil IEEE802.11a est restreinte à une utilisation en intérieur à cause du fonctionnement dans la bande de fréquence 5.15-5.25 GHz et 5.85 to 5.895-GHz. Industry Canada requiert que ce produit soit utilisé à l'intérieur des bâtiments pour la bande de fréquence 5.15-5.25 GHz afin de réduire les possibilités d'interférences nuisibles aux canaux co-existants des systèmes de transmission satellites. Les radars de puissances ont fait l'objet d'une allocation primaire de fréquences dans les bandes 5.25-5.35 GHz et 5.65-5.85 GHz. Ces stations radar peuvent créer des interférences avec ce produit et/ou lui être nuisible. Le gain d'antenne maximum permissible pour une utilisation avec ce produit est de 6 dBi afin d'être conforme aux limites de puissance isotropique rayonnée équivalente (P.I.R.E.) applicable dans les bandes 5.25-5.35 GHz et 5.725-5.85 GHz en fonctionnement point-à-point. Pour se conformer aux conditions d'exposition de RF toutes les antennes devraient être localisées à une distance minimum de 20 cm, ou la distance de séparation minimum permise par l'approbation du module, du corps de toutes les personnes.

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.

Selon les règlements de Canada d'Industrie, cet émetteur de radio peut seulement fonctionner en utilisant une antenne du type et de gain maximum (ou moindre) que le gain approuvé pour l'émetteur par Canada d'Industrie. Pour réduire les interférences radio potentielles avec les autres utilisateurs, le type d'antenne et son gain devraient être choisis de façon à ce que la puissance isotrope rayonnée équivalente(P.I.R.E.) ne soit pas supérieure à celle qui est nécessaire pour une communication réussie.

## 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.

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 "User Guide."
3. Scroll to your adapter.

To view additional regulatory 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 **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

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## **Japan**

5GHz 帯は室内でのみ使用のこと

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## **Korea**

해당 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음.  
해당 무선 설비는 5150-5250MHz 대역에서 실내에서만 사용할 수 있음.

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## **Mexico**

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

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## **Morocco**

The operation of this product in the radio channel 2 (2417 MHz) is not authorized in the following cities:

Agadir, Assa-Zag, Cabo Negro, Chaouen, Goulimima, Oujda, Tan Tan, Taourirt, Taroudant, Taza.

The operation of this product in the radio channels 4, 5, 6 et 7 (2425 - 2442 MHz) is not authorized in the following cities:

Aéroport Mohamed V, Agadir, Aguelmous, Anza, Benslimane, Béni Hafida, Cabo Negro, Casablanca, Fès, Lakbab,

Marrakech, Merchich, Mohammédia, Rabat, Salé, Tanger, Tan Tan, Taounate, Tit Mellil, Zag.

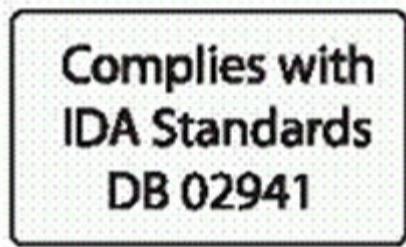
**Pakistan**

"PTA APPROVED MODEL"

**Taiwan Region**

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。高增益指向性天線只得應用於固定式點對點系統。

**Singapore****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 **Regulatory Marking Document** for your adapter.

**Regulatory ID**

**Europe:** Models 3165NGW, 7265D2W, 7265NGW, 8260D2W, 8260NGW, 8260NGWH

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions (WiFi/BT) Intel® Wireless Dock Manager 3.x and previous versions (WiGig)</b>
<b>Maximum Power Output</b> (2400 - 2483.5 MHz) IEEE802.11 b/g/n mode	20dBm EIRP max (100mW)

(2400 - 2483.5 MHz) Bluetooth/BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver. Not supported by the models: 3165NGW, 7265D2W, 7265NGW
(57 - 64 GHz) IEEE802.11 ad mode	25 dBm EIRP max

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



**United Kingdom (UK):**



## Intel® Dual Band Wireless-AC 3165

Due to the very small size of the 3165D2W/3165NGW (12x16), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### **USA:**

Model 3165D2W

FCC ID: PD93165D2

### **Canada:**

Model 3165D2W

IC: 1000M-3165D2

### **Japan:**

Model 3165D2W

- RF: 003-150155
- TEL: D150112003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-150155**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D150112003**

Model 3165NGW

- RF: 003-150009
- TEL: D150008003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-150009**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D150008003**

**Korea:**

Model 3165D2W

MSIP-CRM-INT-3165D2W

**Taiwan Region:**

Model 3165D2W



**China Mainland:**

Model 3165D2W

CMIIT ID: 2015AJ3466 (M)

**Europe:**

Model 3165D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) Bluetooth/BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 3165D2W



**Singapore:**

Model 3165D2W

**Complies with  
IDA Standards  
DB 02941**

**Argentina:**

Model 3165D2W

**CNC** COMISIÓN NACIONAL  
DE COMUNICACIONES  
CNC ID: C-16041

Model 3165NGW

**CNC** COMISIÓN NACIONAL  
DE COMUNICACIONES  
CNC ID: C-14446

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**Intel® Dual Band Wireless-AC 3168**

Due to the very small size of the 3168NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**Japan:**

Model 3168NGW

- RF: 003-160024
- TEL: D160013003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**Europe:**

Model 3168NGW

<b>Software Version</b>		<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>		
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode	20dBm EIRP max (100mW)	
(2400 - 2483.5 MHz) Bluetooth/BLE	10dBm EIRP max (10mW)	
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver	

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



**United Kingdom (UK):**



**Argentina:**

Model 3168NGW



## **Intel® Dual Band Wireless-AC 7265**

Due to the very small size of the 7265D2W/7265NGW (12x16), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 7265D2W

FCC ID: PD97265D2

**Canada:**

Model 7265D2W

IC: 1000M-7265D2

**Japan:**

Model 7265D2W

- RF: 003-140134
- TEL: D140087003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-140134**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D140087003**

Model 7265NGW

- RF: 003-140018
- TEL: D140017003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-140018**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D140017003**

**Korea:**

Model 7265D2W

MSIP-CRM-INT-7265D2W

**Taiwan Region:**

Model 7265D2W



**China Mainland:**

Model 7265D2W

CMIIT ID: 2014AJ3467 (M)

**Australia:**

Model 7265D2W



**Argentina:**

Model 7265D2W



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## Intel® Dual Band Wireless-AC 8260

Due to the very small size of the 8260D2W (12x16), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:** Model 8260D2W, FCC ID: PD98260D2 (FCC ID without suffix "U" denotes factory installation only);

FCC ID: PD98260D2U (FCC ID with suffix "U" denotes user installation or replacement permitted and supported by bios locking feature)

**Canada:**

Model 8260D2W

IC: 1000M-8260D2

**Japan:**

Model 8260D2W

- RF: 003-150094
- TEL: D150070003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-150094**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D150070003**

**Korea:**

Model 8260D2W

MSIP-CRM-INT-8260D2W

**Taiwan Region:**

Model 8260D2W



**China Mainland:**

Model 8260D2W

CMIIT ID: 2014AJ3467 (M)

**Australia:**

Model 8260D2W



**Argentina:**

Model 8260D2W



Due to the very small size of the 8260NGWH/8260NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**Japan:**

Model 8260NGW

- RF: 003-150093
- TEL: D150069003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-150093**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D150069003**

Model 8260NGWH

- RF: 003-150154
- TEL: D150111003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-150154**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D150111003**

**Argentina:**

Model 8260NGWH



**Argentina:**

Model 8260NGW



## Intel® Dual Band Wireless-AC 8265

Due to the very small size of the 8265NGW (22mm x 30mm x 2.4mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model 8265NGW

- FCC ID: PD98265NG (FCC ID without suffix "U" denotes factory installation only)
- FCC ID: PD98265NGU (FCC ID with suffix "U" denotes user installation or replacement permitted and supported by BIOS locking feature)

### Canada:

Model 8265NGW

IC: 1000M-8265NG

### Japan:

Model 8265NGW

- RF 003-160104
- TEL D160055003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



### Korea:

Model 8265NGW

MSIP-CRM-INT-8265NGW



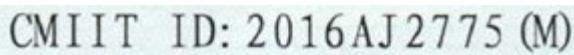
**Taiwan Region:**

Model 8265NGW



**China Mainland:**

Model 8265NGW



**Europe:**

Model 8265NGW/8265D2W

Software Version	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
Maximum Power Output	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver
(57 - 64 GHz) IEEE802.11 ad mode	25 dBm EIRP max

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



**United Kingdom (UK):**



**Australia:**

Model 8265NGW



**Brazil:**

Model 8265NGW



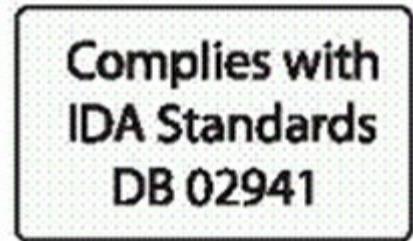
**Argentina:**

Model 8265NGW



**Singapore:**

Model 8265NGW



**Pakistan:**

Model 8265NGW

"PTA APPROVED MODEL"

Due to the very small size of the 8265D2W (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 8265D2W

FCC ID: PD98265D2

**Canada:**

Model 8265D2W

IC: 1000M-8265D2

**Japan:**

Model 8265D2W

- RF 003-160129
- TEL D160076003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-160129**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D160076003**

**Korea:**

Model 8265D2W

MSIP-CRM-INT-8265D2W



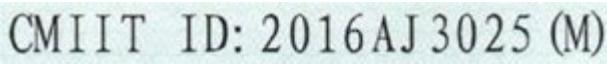
**Taiwan Region:**

Model 8265D2W



**China Mainland:**

Model 8265D2W



**Australia:**

Model 8265D2W



**Brazil:**

Model 8265D2W



**03878-16-02198**

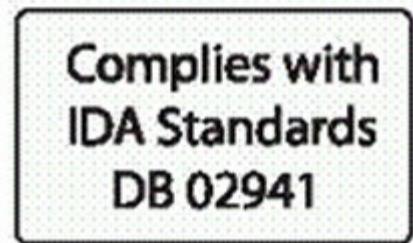
**Argentina:**

Model 8265D2W



**Singapore:**

Model 8265D2W



**Pakistan:**

Model 8265D2W

"PTA APPROVED MODEL"

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## **Intel® Wireless-AC 9260 (9260NGW)**

Due to the very small size of the 9260NGW (22mm x 30mm x 2.4mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9260NGW

FCC ID: PD99260NG

**Canada:**

Model 9260NGW

IC: 1000M-9260NG

**Japan:**

Model 9260NGW

- RF 003-170125
- TEL D170079003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170125**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170079003**

**Korea:**

Model 9260NGW

MSIP-CRM-INT-9260NGW



**Taiwan Region:**

Model 9260NGW



**China Mainland:**

Model 9260NGW

**CMIIT ID: 2016AJ2775 (M)**

**Europe:**

Model 9260NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz)	20dBm EIRP max (100mW)

IEEE802.11 b/g/n mode Bluetooth	
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



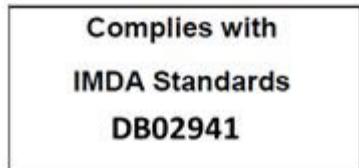
**Australia:**

Model 9260NGW



**Singapore:**

Model 9260NGW



**Paraguay:**

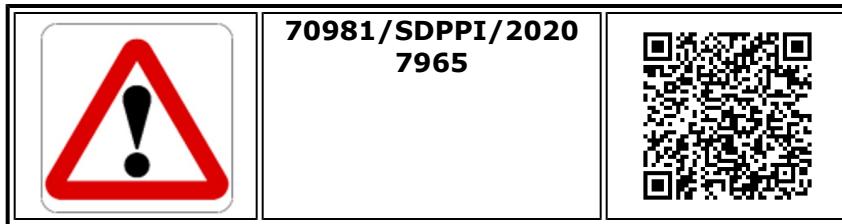
Model 9260NGW



**NR 2017-09-I-0000330**

**Indonesia:**

Model 9260NGW



## **Intel® Wireless-AC 9260 (9260D2WL)**

Due to the very small size of the 9260D2WL (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9260D2WL

FCC ID: PD99260D2L

**Canada:**

Model 9260D2WL

IC: 1000M-9260D2L

**Japan:**

Model 9260D2WL

- RF: 003-190024
- TEL: D190023003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-190024**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D190023003**

**Europe:**

Model 9260D2WL

<b>Software Version</b>	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 9260D2WL



**Brazil:**

Model 9260D2WL

ANATEL: 05831-17-04423

**Singapore:**

Model 9260D2WL

Complies with  
IMDA Standards  
DB02941

**Argentina:**

Model 9260D2WL



**Pakistan:**

Model 9260D2WL

APPROVED BY PTA: 9.9203/2019

**Paraguay:**

Model 9260D2WL



## **Intel® Wireless-AC 9461 (9461NGW)**

Due to the very small size of the 9461NGW (22mm x 30mm x 2.4mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9461NGW

FCC ID: PD99461NG

**Canada:**

Model 9461NGW

IC: 1000M-9461NG

**Japan:**

Model 9461NGW

- RF 003-170204
- TEL D170127003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く

**R 003-170204**5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)**T D170127003****Korea:**

Model 9461NGW



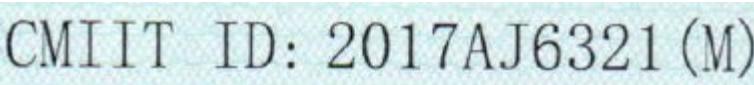
MSIP-CRM-INT-9461NGW

**Taiwan Region:**

Model 9461NGW

**China Mainland:**

Model 9461NGW

**Europe:**

Model 9461NGW

Software Version	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
Maximum Power Output	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac	23dBm EIRP max (200mW) The low band 5.15 - 5.35 GHz is for indoor use only

mode (5725 - 5875 MHz) IEEE802.11 a/n/ac mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver
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This equipment complies with the essential requirements of the European Union directive 2014/53/EU.



**United Kingdom (UK):**



**Australia:**

Model 9461NGW



**Singapore:**

Model 9461NGW



## **Intel® Wireless-AC 9461 (9461D2W)**

Due to the very small size of the 9461D2W (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9461D2W

FCC ID: PD99461D2

**Canada:**

Model 9461D2W

IC: 1000M-9461D2

**Japan:**

Model 9461D2W

- RF 003-170203
- TEL D170126003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170203**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170126003**

**Korea:**

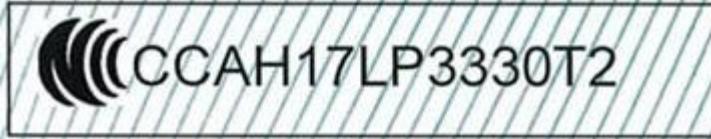
Model 9461D2W



MSIP-CRM-INT-9461D2W

**Taiwan Region:**

Model 9461D2W



**China Mainland:**

Model 9461D2W

CMIIT ID: 2017AJ6329 (M)

**Europe:**

Model 9461D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	

(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



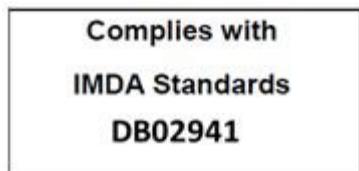
**Australia:**

Model 9461D2W



**Singapore:**

Model 9461D2W



## Intel® Wireless-AC 9462 (9462NGW)

Due to the very small size of the 9462NGW (22mm x 30mm x 2.4mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9462NGW

FCC ID: PD99462NG

**Canada:**

Model 9462NGW

IC: 1000M-9462NG

**Japan:**

Model 9462NGW

- RF 003-170245
- TEL D170151003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170245**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170151003**

**Korea:**

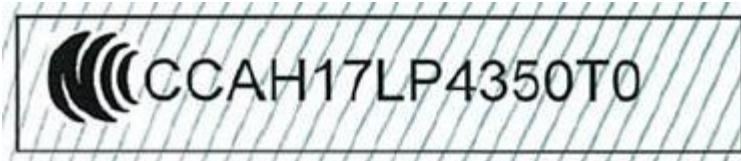
Model 9462NGW



R-CRM-INT-9462NGW

**Taiwan Region:**

Model 9462NGW



**China Mainland:**

Model 9462NGW

CMIIT ID: 2017AJ7583 (M)

**Europe:**

Model 9462NGW

Software Version	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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

**United Kingdom (UK):****Australia:**

Model 9462NGW

**Singapore:**

Model 9462NGW

Complies with  
IMDA Standards  
DB02941

## Intel® Wireless-AC 9462 (9462D2W)

Due to the very small size of the 9462D2W (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model 9462D2W

FCC ID: PD99462D2

### Canada:

Model 9462D2W

IC: 1000M-9462D2

### Japan:

Model 9462D2W

- RF 003-170243
- TEL D170149003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170243**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170149003**

### Korea:

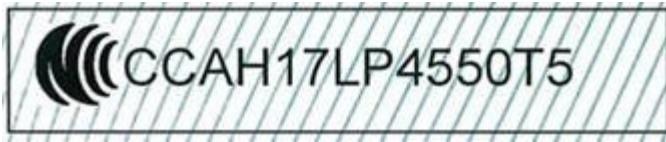
Model 9462D2W



R-CRM-INT-9462D2W

### Taiwan Region:

Model 9462D2W



**China Mainland:**

Model 9462D2W

**CMIIT ID: 2017AJ7649 (M)**

**Europe:**

Model 9462D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 9462D2W



**Singapore:**

Model 9462D2W

Complies with  
IMDA Standards  
DB02941

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## Intel® Wireless-AC 9560 (9560NGW)

Due to the very small size of the 9560NGW (22mm x 30mm x 2.4mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9560NGW

FCC ID: PD99560NG

**Canada:**

Model 9560NGW

IC: 1000M-9560NG

**Japan:**

Model 9560NGW

- RF 003-170126
- TEL D170080003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170126**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170080003**

**Korea:**

Model 9560NGW

MSIP-CRM-INT-9560NGW



**Taiwan Region:**

Model 9560NGW



Model 9560NGW R



**China Mainland:**

Model 9560NGW

**CMIIT ID: 2016AJ2775 (M)**

**Europe:**

Model 9560NGW

Software Version	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
Maximum Power Output	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 9560NGW



**Singapore:**

Model 9560NGW



**Paraguay:**

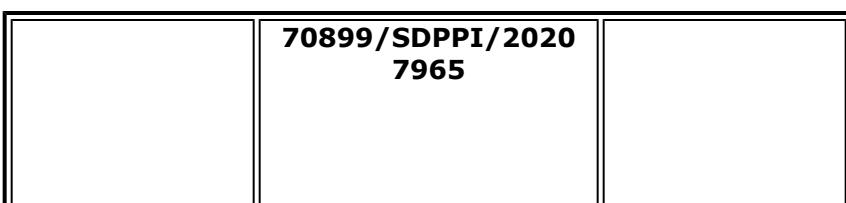
Model 9560NGW

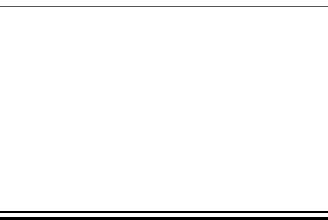


**NR 2017-09-I-0000331**

**Indonesia:**

Model 9560NGW





## Intel® Wireless-AC 9560 (9560D2W)

Due to the very small size of the 9560D2W (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model 9560D2W

FCC ID: PD99560D2

### Canada:

Model 9560D2W

IC: 1000M-9560D2

### Japan:

Model 9560D2W

- RF 003-170244
- TEL D170150003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-170244**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D170150003**

### Korea:

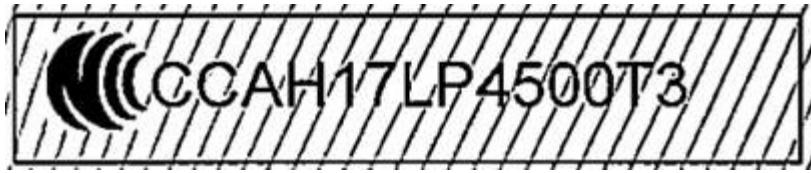
Model 9560D2W



R-CRM-INT-9560D2W

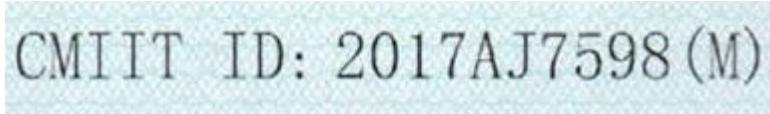
### Taiwan Region:

Model 9560D2W



**China Mainland:**

Model 9560D2W



**Europe:**

Model 9560D2W

Software Version	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 9560D2W



**Singapore:**

Model 9560D2W

Complies with  
IMDA Standards  
DB02941

**Paraguay:**

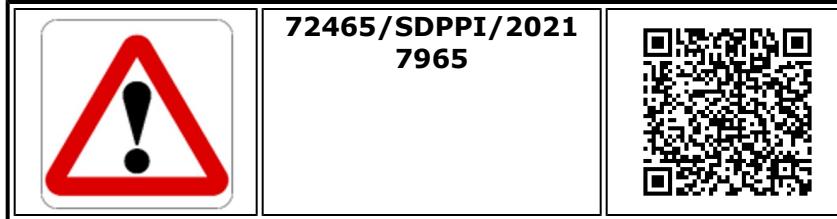
Model 9560D2W



**NR 2019-07-I-0382**

**Indonesia:**

Model 9560D2W



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## **Intel® Wireless-AC 9560 (9560D2WL)**

Due to the very small size of the 9560D2WL (12mm x 16mm x 1.8mm), the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model 9560D2WL

FCC ID: PD99560D2L

**Canada:**

Model 9560D2WL

IC: 1000M-9560D2L

**Japan:**

Model 9560D2WL

- RF 003-180060
- TEL D180033003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-180060**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D180033003**

**Korea:**

Model 9560D2WL



R-CRM-INT-9560D2WL

**Taiwan Region:**

Model 9560D2WL



**China Mainland:**

Model 9560D2WL

CMIIT ID: 2018AJ2011 (M)

**Europe:**

Model 9560D2WL

<b>Software Version</b>	Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n mode Bluetooth	20dBm EIRP max (100mW)

(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model 9560D2WL



**Singapore:**

Model 9560D2WL

Complies with  
IMDA Standards  
DB02941

## **Intel® Wi-Fi 6 AX101 (AX101NGW)**

Due to the very small size of the AX101NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**Paraguay:**

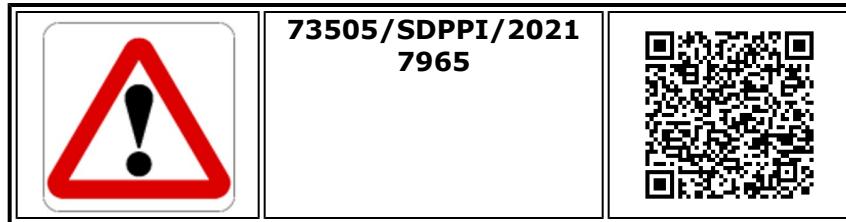
Model AX101NGW



**NR 2021-04-I-0183**

**Indonesia:**

Model AX101NGW



**Argentina:**

Model AX101NGW



## **Intel® Wi-Fi 6 AX101 (AX101D2W)**

Due to the very small size of the AX101D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**Paraguay:**

Model 101D2W

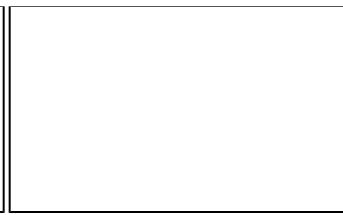


**NR 2021-04-I-0184**

**Indonesia:**

Model AX101D2W





**Argentina:**

Model AX101D2W



**RAMATEL**

**C-25828**

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**Intel® Wi-Fi 6 AX200 (AX200D2WL)**

Due to the very small size of the AX200D2WL, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX200D2WL

FCC ID: PD9AX200D2L

**Canada:**

Model AX200D2WL

IC: 1000M-AX200D2L

**Japan:**

Model AX200D2WL

- RF: 003-190023
- TEL: D190022003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く

**R 003-190023**5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)**T D190022003****Korea:**

Model AX200D2WL



R-C-INT-AX200D2WL

**Taiwan Region:**

Model AX200D2WL

**China Mainland:**

Model AX200D2WL

CMIIT ID: 2019AJ2493 (M)

**Europe:**

Model AX200D2WL

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax mode	23dBm EIRP max (200mW) The low band 5.15 - 5.35 GHz is for indoor use only
(5725 - 5875 MHz)	13.98 dBm EIRP Max (25mW)

IEEE802.11  
a/n/ac/ax mode

For the standard EN 300 440, the device operating in 5.8 GHz is considered  
a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model AX200D2WL



**Brazil:**

Model AX200D2WL



**04137-19-04423**

**Singapore:**

Model AX200D2WL

Complies with  
IMDA Standards  
DB02941

**Argentina:**

Model AX200D2WL



**Pakistan:**

Model AX200D2WL

APPROVED BY PTA: 9.9202/2019

## **Intel® Wi-Fi 6 AX200 (AX200NGW)**

Due to the very small size of the AX200NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX200NGW

FCC ID: PD9AX200NG

**Canada:**

Model AX200NGW

IC: 1000M-AX200NG

**Japan:**

Model AX200NGW

- RF: 003-190022
- TEL: D190021003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-190022**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D190021003**

**Korea:**

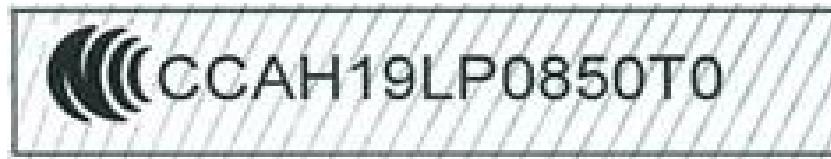
Model AX200NGW



R-C-INT-AX200NGW

**Taiwan Region:**

Model AX200NGW



**China Mainland:**

Model AX200NGW

CMIIT ID: 2019AJ2274 (M)

**Europe:**

Model AX200NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model AX200NGW



**Brazil:**

Model AX200NGW



**04136-19-04423**

**Singapore:**

Model AX200NGW

Complies with  
IMDA Standards  
DB02941

**Argentina:**

Model AX200NGW



**Pakistan:**

Model AX200NGW

APPROVED BY PTA: 9.9211/2019

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**Intel® Wi-Fi 6 AX201 (AX201NGW)**

Due to the very small size of the AX201NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX201NGW

FCC ID: PD9AX201NG

**Canada:**

Model AX201NGW

IC: 1000M-AX201NG

**Japan:**

Model AX201NGW

- RF: 003-180232
- TEL: D180131003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-180232**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D180131003**

**Korea:**

Model AX201NGW



R-C-INT-AX201NGW

**Taiwan Region:**

Model AX201NGW



**China Mainland:**

Model AX201NGW

CMIIT ID: 2018AJ7550 (M)

**Europe:**

Model AX201NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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

**United Kingdom (UK):****Australia:**

Model AX201NGW

**Brazil:**

Model AX201NGW

ANATEL: 06970-18-04423

**Singapore:**

Model AX201NGW

Complies with  
IMDA Standards  
DB02941

**Argentina:**

Model AX201NGW



**Pakistan:**

Model AX201NGW

APPROVED BY PTA: 9.9116/2019

**Paraguay:**

Model AX201NGW



## **Intel® Wi-Fi 6 AX201 (AX201D2W)**

Due to the very small size of the AX201D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX201D2W

FCC ID: PD9AX201D2

**Canada:**

Model AX201D2W

IC: 1000M-AX201D2

**Japan:**

Model AX201D2W

- RF: 003-180233

- TEL: D180132003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-180233**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D180132003**

**Korea:**

Model AX201D2W



R-C-INT-AX201D2W

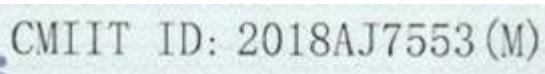
**Taiwan Region:**

Model AX201D2W



**China Mainland:**

Model AX201D2W



**Europe:**

Model AX201D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz)	23dBm EIRP max (200mW)

IEEE802.11 a/n/ac/ax mode	The low band 5.15 - 5.35 GHz is for indoor use only
(5725 - 5875 MHz) IEEE802.11 a/n/ac/ax mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model AX201D2W



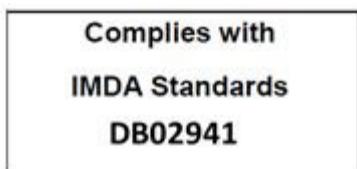
**Brazil:**

Model AX201D2W

ANATEL: 07039-18-04423

**Singapore:**

Model AX201D2W



**Argentina:**

Model AX201D2W



**Pakistan:**

Model AX201D2W

APPROVED BY PTA: 9.9115/2019

**Paraguay:**

Model AX201D2W



**NR 2019-07-I-0380**

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## Intel® Wi-Fi 6 AX201 (AX201D2WL)

Due to the very small size of the AX201D2WL, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX201D2WL

FCC ID: PD9AX201D2L

**Canada:**

Model AX201D2WL

IC: 1000M-AX201D2L

**Japan:**

Model AX201D2WL

- RF: 003-180234
- TEL: D180133003

5.2GHz帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-180234**

5.15-5.35GHz: Indoor use only  
(Except communicate to high power radio)

**T D180133003**

**Korea:**

Model AX201D2WL



R-C-INT-AX201D2WL

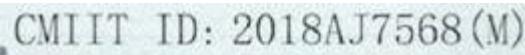
**Taiwan Region:**

Model AX201D2WL



**China Mainland:**

Model AX201D2WL



**Europe:**

Model AX201D2WL

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 20.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver
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This equipment complies with the essential requirements of the European Union directive 2014/53/EU.



**United Kingdom (UK):**



**Australia:**

Model AX201D2WL



**Brazil:**

Model AX201D2WL

ANATEL: 07271-18-04423

**Singapore:**

Model AX201D2WL

Complies with  
IMDA Standards  
DB02941

**Argentina:**

Model AX201D2WL



**Pakistan:**

Model AX201D2WL

APPROVED BY PTA: 9.9110/2019

## **Intel® Wi-Fi 6 AX203 (AX203NGW)**

Due to the very small size of the AX203NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX203NGW

FCC ID: PD9AX203NG

**Canada:**

Model AX203NGW

IC: 1000M-AX203NG

**Japan:**

Model AX203NGW

- RF: 003-200294
- TEL: D200230003



**Korea:**

Model AX203NGW



**R-C-INT-AX203NGW**

1. 상호명: INTEL CORPORATION
2. 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX203NGW
3. 제조시기: 2020/11
4. 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

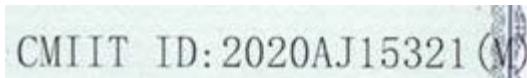
**Taiwan Region:**

Model AX203NGW



**China Mainland:**

Model AX203NGW



**Europe:**

Model AX203NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model AX203NGW



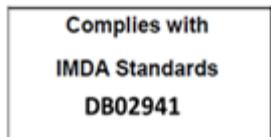
**Brazil:**

Model AX203NGW

TBD

**Singapore:**

Model AX203NGW



**Argentina:**

Model AX203NGW



**RAMATEL**  
**C-25825**

**Pakistan:**

Model AX203NGW



**APPROVED BY PTA: 9.162/2021**

**Paraguay:**

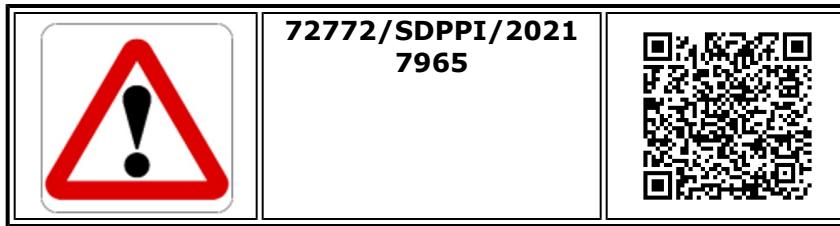
Model AX203NGW



**NR 2021-02-I-0091**

**Indonesia:**

Model AX203NGW



## **Intel® Wi-Fi 6 AX203 (AX203D2W)**

Due to the very small size of the AX203D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX203D2W

FCC ID: PD9AX203D2

**Canada:**

Model AX203D2W

IC: 1000M-AX203D2

**Japan:**

Model AX203D2W

- RF: 003-200295
- TEL: D200231003



**Korea:**

Model AX203D2W

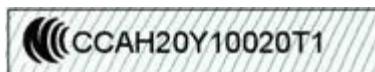


**R-C-INT-AX203D2W**

- 상호명: INTEL CORPORATION
- 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX203D2W
- 제조시기: 2020/11
- 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

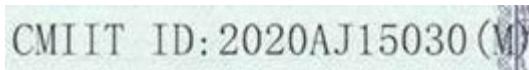
**Taiwan Region:**

Model AX203D2W



**China Mainland:**

Model AX203D2W



**Europe:**

Model AX203D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 2 receiver

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



**United Kingdom (UK):**



**Australia:**

Model AX203D2W



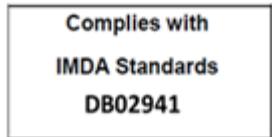
**Brazil:**

Model AX203D2W

TBD

**Singapore:**

Model AX203D2W



**Argentina:**

Model AX203D2W



**Pakistan:**

Model AX203D2W



**APPROVED BY PTA: 9.158/2021**

**Paraguay:**

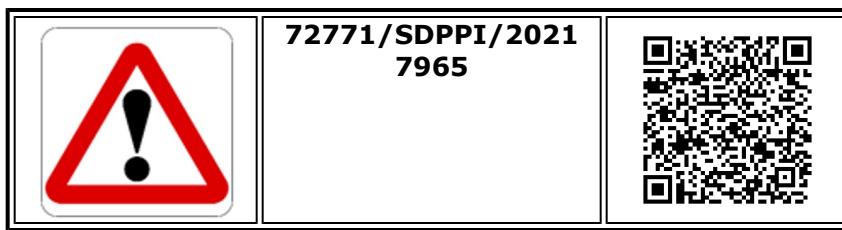
Model AX203D2W



**NR 2021-02-I-0090**

**Indonesia:**

Model AX203D2W



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## **Intel® Wi-Fi 6E AX210 (AX210NGW)**

Due to the very small size of the AX210NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX210NGW

FCC ID: PD9AX210NG

**Canada:**

Model AX210NGW

IC: 1000M-AX210NG

**Japan:**

Model AX210NGW

- RF: 003-200209
- TEL: D200188003

5.2 GHz 帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-200209**

5.15-5.35 GHz: Indoor use only  
(Except communicate to high power radio)

**T D200188003**

**Korea:**

Model AX210NGW



**R-C-INT-AX210NGW**

- 상호명: INTEL CORPORATION
- 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX210NGW
- 제조시기: 2020/09
- 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

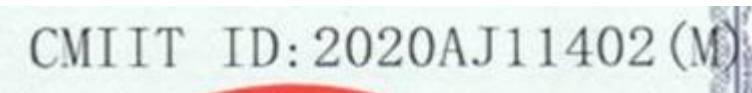
**Taiwan Region:**

Model AX210NGW



**China Mainland:**

Model AX210NGW



**Europe:**

Model AX210NGW

<b>Software Version</b>	Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode	20dBm EIRP max (100mW)

Bluetooth	
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.



**United Kingdom (UK):**



**Australia:**

Model AX210NGW



**Brazil:**

Model AX210NGW



**14242-20-04423**

**Singapore:**

Model AX210NGW

Complies with  
IMDA Standards  
DA108442

**Argentina:**

Model AX210NGW



**RAMATEL  
C-25568**

**Pakistan:**

Model AX210NGW



**APPROVED BY PTA: 9.1000/2020**

**Paraguay:**

Model AX210NGW

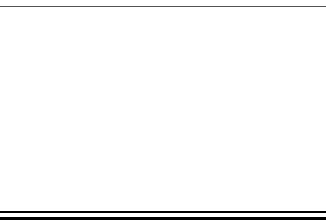


**NR 2020-11-I-0818**

**Indonesia:**

Model AX210NGW

	<b>71459/SDPPI/2020 7965</b>	
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## Intel® Wi-Fi 6E AX210 (AX210D2W)

Due to the very small size of the AX210D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model AX210D2W

FCC ID: PD9AX210D2

### Canada:

Model AX210D2W

IC: 1000M-AX210D2

### Japan:

Model AX210D2W

- RF: 003-200255
- TEL: D200217003

5.2 GHz 帯高出力データ通信システム基地局又は陸上移動中継局と通信する場合を除く



**R 003-200255**

5.15-5.35 GHz: Indoor use only  
(Except communicate to high power radio)

**T D200217003**

### Korea:

Model AX210D2W

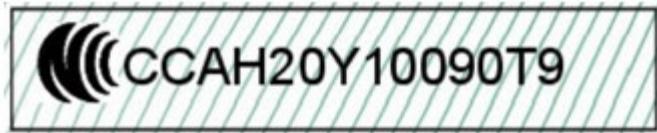


**R-C-INT-AX210D2W**

- 상호명: INTEL CORPORATION
- 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX210D2W
- 제조시기: 2020/11
- 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

**Taiwan Region:**

Model AX210D2W

**China Mainland:**

Model AX210D2W

CMIIT ID: 2020AJ15108(M)

**Europe:**

Model AX210D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.

**United Kingdom (UK):**



**Australia:**

Model AX210D2W



**Brazil:**

Model AX210D2W

TBD

**Singapore:**

Model AX210D2W

Complies with  
IMDA Standards  
DA108442

**Argentina:**

Model AX210D2W



**Pakistan:**

Model AX210D2W



**APPROVED BY PTA: 9.1311/2020**

**Paraguay:**

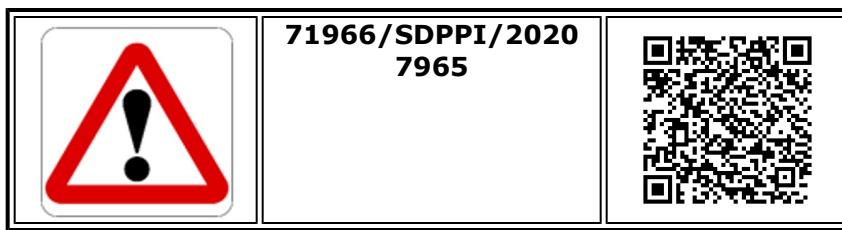
Model AX210D2W



**NR 2020-12-I-0940**

**Indonesia:**

Model AX210D2W



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## **Intel® Wi-Fi 6E AX211 (AX211NGW)**

Due to the very small size of the AX211NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX211NGW

FCC ID: PD9AX211NG

**Canada:**

Model AX211NGW

IC: 1000M-AX211NG

**Japan:**

Model AX211NGW

- RF: 003-210035
- TEL: D210019003



R003-210035

5.15~5.35 GHz: Indoor use only  
{Except communicate to high power radio}

TD210019003

**Korea:**

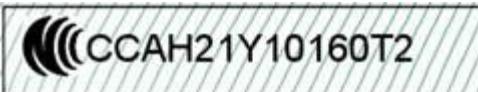
Model AX211NGW

**R-C-INT-AX211NGW**

- 상호명: INTEL CORPORATION
- 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX211NGW
- 제조시기: 2020/11
- 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

**Taiwan Region:**

Model AX211NGW

**China Mainland:**

Model AX211NGW

**CMIIT ID: 2021AJ3091 (M)****Europe:**

Model AX211NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.



**United Kingdom (UK):**



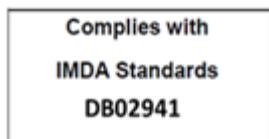
**Australia:**

Model AX211NGW



**Singapore:**

Model AX211NGW



**Brazil:**

Model AX211NGW



**Argentina:**

Model AX211NGW



**RAMATEL  
C-26079**

**Pakistan:**

Model AX211NGW



**APPROVED BY PTA: 9.308/2021**

**Paraguay:**

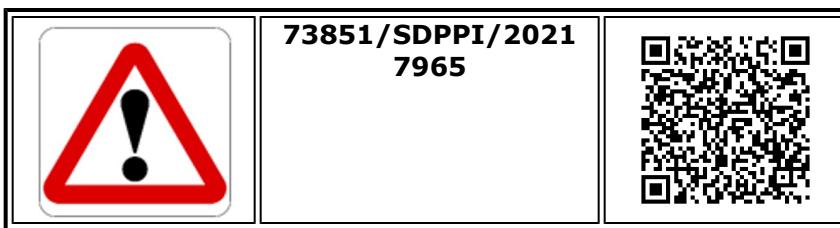
Model AX211NGW



**NR 2021-03-I-0117**

**Indonesia:**

Model AX211NGW



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**Intel® Wi-Fi 6E AX211 (AX211D2W)**

Due to the very small size of the AX211D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

**USA:**

Model AX211D2W

FCC ID: PD9AX211D2

**Canada:**

Model AX211D2W

IC: 1000M-AX211D2

**Japan:**

Model AX211D2W

- RF: 003-210037
- TEL: D210021003

**Korea:**

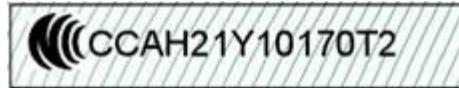
Model AX211D2W

**R-C-INT-AX211D2W**

1. 상호명: INTEL CORPORATION
2. 기자재의 명칭 (모델명): 특정소출력 무선기기(무선랜을 포함한 무선접속시스템용 무선기기) AX211D2W
3. 제조시기: 2020/11
4. 제조자/제조국: INTEL CORPORATION / China Mainland, Taiwan Region

**Taiwan Region:**

Model AX211D2W

**China Mainland:**

Model AX211D2W

**CMIIT ID: 2021AJ2801 (M)****Europe:**

Model AX211D2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)

(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.



**United Kingdom (UK):**



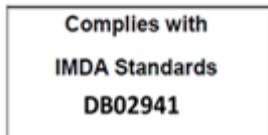
**Australia:**

Model AX211D2W



**Singapore:**

Model AX211D2W



**Brazil:**

Model AX211D2W



**12073-21-04423**

**Argentina:**

Model AX211D2W



**RAMATEL  
C-26080**

**Pakistan:**

Model AX211D2W



**APPROVED BY PTA: 9.309/2021**

**Paraguay:**

Model AX211D2W

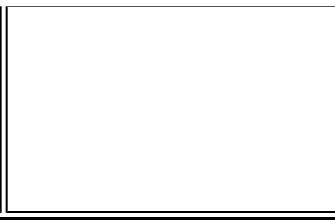


**NR 2021-03-I-0137**

**Indonesia:**

Model AX211D2W

	<b>73853/SDPPI/2021 7965</b>	
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## Intel® Wi-Fi 6E AX211 (AX211D2WL)

Due to the very small size of the AX211D2WL, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model AX211D2WL

FCC ID: PD9AX211D2L

### Canada:

Model AX211D2WL

IC: 1000M-AX211D2L

### Japan:

Model AX211D2WL

- RF: 003-210039
- TEL: D210022003



### Korea:

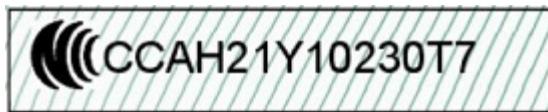
Model AX211D2L



**R-C-INT-AX211D2WL**

### Taiwan Region:

Model AX211D2WL

**China Mainland:**

Model AX211D2WL

**CMIIT ID: 2021AJ8266 (M)****Europe:**

Model AX211D2WL

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.

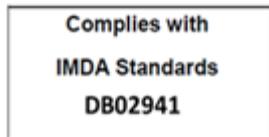
**United Kingdom (UK):****Australia:**

Model AX211D2WL



**Singapore:**

Model AX211D2WL



**Brazil:**

Model AX211D2WL



**Pakistan:**

Model AX211D2WL



**APPROVED BY PTA: 9.452/2021**

**Paraguay:**

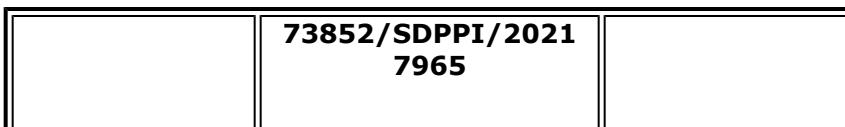
Model AX211D2WL

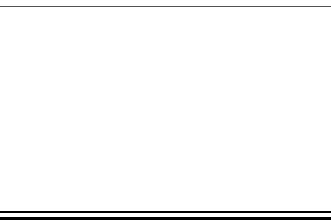


**NR 2021-04-I-0192**

**Indonesia:**

Model AX211D2WL





## Intel® Wi-Fi 6E AX411 (AX411NGW)

Due to the very small size of the AX411NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### **USA:**

Model AX411NGW

FCC ID: PD9AX411NG

### **Canada:**

Model AX411NGW

IC: 1000M-AX411NG

### **Japan:**

Model AX411NGW

- RF: 003-210221
- TEL: D210157003



### **Korea:**

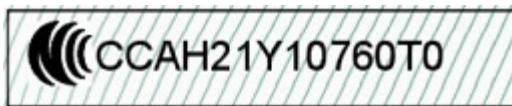
Model AX411NGW



**R-C-INT-AX411NGW**

### **Taiwan Region:**

Model AX411NGW

**China Mainland:**

Model AX411NGW

**CMIIT ID: 2022AJ1573 (M)****Europe:**

Model AX411NGW

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.

**United Kingdom (UK):****Brazil:**

Model AX411NGW



**12070-21-04423**

**Argentina:**

Model AX411NGW



**RAMATEL**  
**C-26952**

**Pakistan:**

Model AX411NGW



**APPROVED BY PTA: 9.1077/2021**

**Paraguay:**

Model AX411NGW

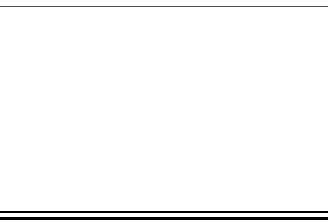


**NR 2021-10-I-0612**

**Indonesia:**

Model AX411NGW

	<b>77535/SDPPI/2021</b> <b>7965</b>	
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## Intel® Wi-Fi 6E AX411 (AX411E2W)

Due to the very small size of the AX411E2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

### USA:

Model AX411E2W

FCC ID: PD9AX411E2

### Canada:

Model AX411E2W

IC: 1000M-AX411E2

### Japan:

Model AX411E2W

- RF: 003-210222
- TEL: D210158003



**R003-210222**

5.15-5.35 GHz: Indoor use only  
(Except communicate to high power radio)

**TD210158003**

### Korea:

Model AX411E2W



**R-C-INT-AX411E2W**

### Taiwan Region:

Model AX411E2W

**China Mainland:**

Model AX411E2W

**CMIIT ID: 2022AJ1526 (M)****Europe:**

Model AX411E2W

<b>Software Version</b>	<b>Intel® PROSet/Wireless WiFi Software 22.x and subsequent versions</b>
<b>Maximum Power Output</b>	
(2400 - 2483.5 MHz) IEEE802.11 b/g/n/ax mode Bluetooth	20dBm EIRP max (100mW)
(2400 - 2483.5 MHz) BLE	10dBm EIRP max (10mW)
(5150 - 5725 MHz) IEEE802.11 a/n/ac/ax 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 mode	13.98 dBm EIRP Max (25mW) For the standard EN 300 440, the device operating in 5.8 GHz is considered a category 1 receiver
(5925 - 6425 MHz) IEEE802.11ax	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.

**United Kingdom (UK):****Brazil:**

Model AX411E2W



**13291-21-04423**

**Argentina:**

Model AX411E2W



**RAMATEL  
C-26953**

**Pakistan:**

Model AX411E2W



**APPROVED BY PTA: 9.1092/2021**

**Paraguay:**

Model AX411E2W

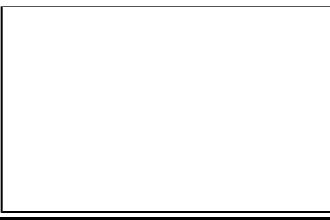


**NR 2021-10-I-0643**

**Indonesia:**

Model AX411E2W

	<b>77788/SDPPI/2021 7965</b>	
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## Intel® Wi-Fi 7 BE200 (BE200NGW)

Due to the very small size of the BE200NGW, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

TBD

## Intel® Wi-Fi 7 BE200 (BE200D2W)

Due to the very small size of the BE200D2W, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

TBD

## Intel® Wi-Fi 7 BE202 (BE200NGW M)

Due to the very small size of the BE200NGW M, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

TBD

## Intel® Wi-Fi 7 BE202 (BE200D2W M)

Due to the very small size of the BE200D2W M, the marking has been placed in this user manual because the product label on the device is considered too small to be readable.

TBD

## 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 to determine 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 setup the device for any compliance testing that the OEM integrator is responsible 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 modification to Intel® wireless adapters by OEMs, integrators or other third parties is not permitted. Any changes or modification 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/Brazil).

## 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 (dBi)										
Antenna Type	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.0 GHz
<b>PIFA</b>	3.24	3.64	3.73	4.77	4.97	4.54*	4.83	4.3	5.37	5.59
<b>Dipole</b>	2.89	2.92	3.19	4.41	4.22	5.12	5.06	4.71	4.49	5.34

Modules:

7265NGW, 3165NGW, 8260NGW, 8260D2W, 3165D2W, 3168NGW, 8265NGW, 8265D2W, 9560NGW, 9560NGW R, 9260NGW, 9461NGW, 9461D2W, 9462NGW, 9462D2W, 9560D2W, 9560D2WR, 9560D2WL, 9260D2WL, AX201NGW, AX201D2W, AX201D2WL, AX200NGW, AX200D2WL, AX211NGW, AX211D2W, AX210NGW, AX210D2W, AX411NGW, AX411E2W

\*Antenna Peak Gain is 4.72 dBi at 5.9 GHz for the following models:

AX101NGW, AX101D2W, AX203NGW, AX203D2W

Antenna Peak gain with cable loss (dBi)										
Antenna Type	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.0 GHz
<b>PIFA</b>	2.95	5.11	4.55	5.15	5.13	4.45	5.02	4.88	4.96	4.96
<b>Dipole</b>	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
<b>Monopole</b>	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 or greater than -2 dBi. If the host antenna design in same type with 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 user) and portable devices (<20 cm separation from 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 approval is 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 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 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.

<b>Wireless Adapter</b>	<b>Minimum required antenna-to-user separation distance</b>	
	<b>Using a PIFA antenna</b>	<b>Using a Dipole/Monopole antenna</b>
Intel® Dual Band Wireless-AC 3165	8 mm	
Intel® Dual Band Wireless-AC 7265	8 mm	
Intel® Dual Band Wireless-N 7265	8 mm	
Intel® Wireless-N 7265	8 mm	
Intel® Dual Band Wireless-AC 8260	8 mm	
Intel® Dual Band Wireless-AC 8265	8 mm	
Intel® Wireless-AC 9260	14 mm	200 mm
Intel® Wireless-AC 9461 (9161NGW)	19 mm	200 mm
Intel® Wireless-AC 9461 (9161D2W)	12 mm	200 mm
Intel® Wireless-AC 9462 (9162NGW)	14 mm	200 mm
Intel® Wireless-AC 9462 (9162D2W)	15 mm	200 mm
Intel® Wireless-AC 9560 (9560NGW)	18 mm	200 mm
Intel® Wireless-AC 9560 (9560D2W)	15 mm	200 mm
Intel® Wireless-AC 9560 (9560D2WL)	15 mm	200 mm
Intel® Wi-Fi 6E AX101 (AX101NGW)	18 mm (30 mm using UNII-4 band)	200 mm
Intel® Wi-Fi 6E AX101 (AX101D2WL)	13 mm (27 mm using UNII-4 band)	200 mm
Intel® Wi-Fi 6 AX200 (AX200NGW)	18 mm	200 mm
Intel® Wi-Fi 6 AX200 (AX200D2WL)	19 mm	200 mm
Intel® Wi-Fi 6 AX201 (AX201D2W)	12 mm	200 mm
Intel® Wi-Fi 6 AX201 (AX201D2WL)	15 mm	200 mm
Intel® Wi-Fi 6 AX201 (AX201NGW)	17 mm	200 mm
Intel® Wi-Fi 6E AX203 (AX203NGW)	18 mm (28 mm using UNII-4 band)	200 mm
Intel® Wi-Fi 6E AX203 (AX203D2W)	16 mm (30 mm using UNII-4 band)	200 mm

Intel® Wi-Fi 6E AX210 (AX210NGW)	13 mm	200 mm
Intel® Wi-Fi 6E AX210 (AX210D2W)	17 mm	200 mm
Intel® Wi-Fi 6E AX211 (AX211NGW)	14 mm	200 mm
Intel® Wi-Fi 6E AX211 (AX211D2W)	14 mm	200 mm
Intel® Wi-Fi 6E AX211 (AX211D2WL)	15 mm	200 mm
Intel® Wi-Fi 6E AX411 (AX411NGW)	15 mm	200 mm
Intel® Wi-Fi 6E AX411 (AX411E2W)	15 mm	200 mm
Intel® Wi-Fi 7 BE200 (BE200NGW)	45 mm	200 mm
Intel® Wi-Fi 7 BE200 (BE200D2W)	45 mm	200 mm
The Monopole and Dipole antennas are certified under mobile configurations and require > 20 cm separation from the body of user.		

Additional regulatory authorization process may be required if wishing to place the 60 GHz/802.11ad RFEM (antenna array) closer than 20 cm to 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. Host system must be labeled with "Contains FCC ID: XXXXXXXX", FCC ID displayed on 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.

### China Mainland:

模块通过型号核准并不代表嵌入或使用该模块的最终设备符合相关无线电管理技术规定或标准，最终设备厂商须对产品的技术特性是否符合无线电管理技术规定或标准负责

## Local Restriction of 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ad Radio Usage

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

 **Caution:** Due to the fact that the frequencies used by 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ad wireless LAN devices may not yet be harmonized in all countries, 802.11a, 802.11b, 802.11g and 802.11n 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 comply with the essential requirements of the European Union directive 2014/53/EU.

- Intel® Dual Band Wireless-AC 3165
- Intel® Dual Band Wireless-AC 7265
- Intel® Dual Band Wireless-N 7265
- Intel® Wireless-N 7265
- Intel® Dual Band Wireless-AC 8260
- Intel® Dual Band Wireless-AC 8265
- Intel® Wireless-AC 9260
- Intel® Wireless-AC 9560
- Intel® Wi-Fi 6 AX101
- Intel® Wi-Fi 6 AX200
- Intel® Wi-Fi 6 AX201
- Intel® Wi-Fi 6 AX203
- Intel® Wi-Fi 6E AX210
- Intel® Wi-Fi 6E AX211
- Intel® Wi-Fi 6E AX411

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[Trademarks and Disclaimers](#)

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## Specifications

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

- [Intel® Dual Band Wireless-AC 3165](#)
- [Intel® Dual Band Wireless-AC 3168](#)
- [Intel® Dual Band Wireless-AC 7265](#)
- [Intel® Dual Band Wireless-N 7265](#)
- [Intel® Wireless-N 7265](#)
- [Intel® Dual Band Wireless-AC 8260](#)
- [Intel® Dual Band Wireless-AC 8265](#)
- [Intel® Wireless-AC 9260](#)
- [Intel® Wireless-AC 9461](#)
- [Intel® Wireless-AC 9462](#)
- [Intel® Wireless-AC 9560](#)
- [Intel® Wi-Fi 6 AX101](#)
- [Intel® Wi-Fi 6 AX200](#)
- [Intel® Wi-Fi 6 AX201](#)
- [Intel® Wi-Fi 6 AX203](#)
- [Intel® Wi-Fi 6E AX210](#)
- [Intel® Wi-Fi 6E AX211](#)
- [Intel® Wi-Fi 6E AX411](#)
- [Intel® Wi-Fi 7 BE200](#)
- [Intel® Wi-Fi 7 BE202](#)

## Intel® Dual Band Wireless-AC 3165 (Model 3165NGW)

Form Factors	M.2 (Next Generation Form Factor - NGFF)	
Electrical interfaces	PCIe and USB 2.0	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
IEEE 802.11 Networking Standards	802.11abgn, 802.11ac, 802.11d, 802.11e, 802.11i, 802.11h, 802.11w	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Dual Band Wireless-AC 3165: 1 X 1	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data	Intel® Dual Band Wireless-AC 3165: Up to 433 Mbps	

Rates	
IEEE 802.11n Data Rates	Tx/Rx (Mbps): 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
<b>Bluetooth</b>	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
<b>General</b>	
Operating Systems	Windows* 7 (32-bit and 64-bit), Windows* 8 (32-bit and 64-bit), Windows* 8.1 (64-bit)
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* for 802.11ac, a/b/g, n, WMM*, WPA*, WPA2*, and WPS, WPS 2.0, Protected Management Frames. Wi-Fi Direct* for peer-to-peer device connections.
Architecture	Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0
<b>Security</b>	
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP
Product Safety	UL, C-UL, CB (IEC/EN 62368-1)

## Intel® Dual Band Wireless-AC 3168

Form Factors	M.2 2230 (Next Generation Form Factor - NGFF)	
Electrical interfaces	PCIe and USB 2.0	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
IEEE 802.11 Networking Standards	802.11abgn, 802.11ac, 802.11d, 802.11e, 802.11i, 802.11h, 802.11w	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency	2.4GHz ISM: Orthogonal Frequency

	Division Multiplexing (OFDM)	Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Dual Band Wireless-AC 3168: 1 X 1	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	Intel® Dual Band Wireless-AC 3168: Up to 433 Mbps	
IEEE 802.11n Data Rates	Tx/Rx (Mbps): 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	
<b>Bluetooth</b>	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.2 (BLE)	
<b>General</b>		
Operating Systems	Linux, Windows* 8.1 (64-bit), Windows* 10 (64-bit)	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* for 802.11ac, a/b/g, n, WMM*, WPA*, WPA2*, and WPS, WPS 2.0, Protected Management Frames. Wi-Fi Direct* for peer-to-peer device connections.	
Architecture	Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
<b>Security</b>		
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA	
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2	
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP	
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP	
Product Safety	UL, C-UL, CB (IEC/EN 62368-1)	

## Intel® Dual Band Wireless-AC 7265 (Model 7265NGW)

Form Factors	M.2 (Next Generation Form Factor - NGFF)	
Electrical interfaces	PCIe and USB 2.0	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
IEEE 802.11 Networking Standards	Intel® Dual Band Wireless-AC 7265 <ul style="list-style-type: none"> <li>Model 7265NGW - 802.11agn, ac, 2x2, Bluetooth 4.0, PCIe, USB, M.2</li> </ul>	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
<b>Frequency</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>

<b>Modulation</b>		
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Dual Band Wireless-AC 7265: 2 X 2	
<b>Data Rates</b>		
IEEE 802.11ac Data Rates	Intel® Dual Band Wireless-AC 7265: 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	
<b>Bluetooth</b>	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE) supported by the following adapters <ul style="list-style-type: none"> <li>Model 7265NGW</li> </ul>	
<b>General</b>		
Operating Systems	Windows* 7 (32-bit and 64-bit), Windows* 8 (32-bit and 64-bit), Windows* 8.1 (64-bit)	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* for 802.11ac, a/b/g, n, WMM*, WPA*, WPA2*, and WPS, WPS 2.0, Protected Management Frames. Wi-Fi Direct* for peer-to-peer device connections.	
Architecture	Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
<b>Security</b>		
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA	
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2	
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP	
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP	
Product Safety	UL, C-UL, CB (IEC/EN 62368-1)	

## **Intel® Dual Band Wireless-N 7265 (Models 7265NGW AN and 7265NGW NB)**

### **Intel® Wireless-N 7265 (Model 7265NGW BN)**

Form Factors	M.2 (Next Generation Form Factor - NGFF)
Electrical interfaces	PCIe, USB 2.0

Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
IEEE 802.11 Networking Standards	<p>Intel® Dual Band Wireless-N 7265</p> <ul style="list-style-type: none"> <li>• Model 7265NGW AN - 802.11agn, 2x2, Bluetooth 4.0, PCIe, USB, M.2</li> <li>• Model 7265NGW NB - 802.11agn, 2x2, PCIe, USB, M.2</li> </ul> <p>Intel® Wireless-N 7265</p> <ul style="list-style-type: none"> <li>• Model 7265NGW BN - 802.11bgn, 2x2, Bluetooth 4.0, PCIe, USB, M.2</li> </ul>	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% non-condensing (at temperatures of 25 °C to 35 °C)	
<b>Frequency Modulation</b> (See above, not all bands supported by all adapters)	<b>5GHz (802.11a/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
802.11n spatial streams	All adapters: 2 X 2 spatial streams	
<b>Data Rates</b>	All data rates are theoretical maximums.	
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	
<b>Bluetooth</b>	<p>Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE) supported by the following adapters</p> <ul style="list-style-type: none"> <li>• Model 7265NGW AN</li> <li>• Model 7265NGW NB</li> <li>• Model 7265NGW BN</li> </ul>	
<b>General</b>		
Operating Systems	Windows* 7 (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows* 8.1 (64-bit)	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* for 802.11ac, a/b/g, n, WMM*, WPA*, WPA2*, and WPS, WPS 2.0, Protected Management Frames. Wi-Fi Direct* for peer-to-peer device connections.	
Architecture	Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
<b>Security</b>		

Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP
Product Safety	UL, C-UL, CB (IEC/EN 62368-1)

## Intel® Dual Band Wireless-AC 8260

Form Factors	Half-Mini Card and M.2 (Next Generation Form Factor - NGFF)	
Electrical interfaces	PCIe and USB 2.0 for both form factors	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
IEEE 802.11 Networking Standards	Intel® Dual Band Wireless-AC 8260 <ul style="list-style-type: none"> <li>Model 8260NGW - 802.11agn, ac, 2x2, Bluetooth 4.0, PCIe, USB, M.2</li> </ul>	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 95% non-condensing (at temperatures of 25 °C to 35 °C)	
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Dual Band Wireless-AC 8260: 2 X 2	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	Intel® Dual Band Wireless-AC 8260: 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	
<b>Bluetooth</b>	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE) supported by the following adapters <ul style="list-style-type: none"> <li>Model 8260NGW</li> </ul>	
<b>General</b>		
Operating Systems	Windows* 7 (32-bit and 64-bit), Windows* 8 (32-bit and 64-bit), Windows* 8.1 (64-bit)	

	bit)
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* for 802.11ac, a/b/g, n, WMM*, WPA*, WPA2*, and WPS, WPS 2.0, Protected Management Frames. Wi-Fi Direct* for peer-to-peer device connections.
Architecture	Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0
<b>Security</b>	
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP
Product Safety	UL, C-UL, CB (IEC/EN 62368-1)

## Intel® Dual Band Wireless-AC 8265 (Models 8265NGWH/8265NGW/8265D2W)

<b>General</b>	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm</li> <li>M.2 1216: 12 mm x 16 mm x 1.8 mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.6g</li> <li>M.2 1216: 0.6g</li> </ul>
Antenna Diversity	Supported
Radio ON/OFF Control	Supported
Connector Interface	M.2: PCIe, USB, or UART (M.2 1216 only)
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)
Operating Systems	Microsoft Windows 7*, Microsoft Windows 8.1*, Microsoft Windows 10*, Linux* (limited feature support), Android
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Direct* for peer to peer device connections, Wi-Fi Miracast* as Source.
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc
Roaming	Supports seamless roaming between access points
Bluetooth	Dual Mode Bluetooth* 4.2, BLE
<b>Security</b>	
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA, EAP-AKA

Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2	
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP	
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP	
<b>Compliance</b>		
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	Model 8265NGWH	802.11ac, 2x2, Bluetooth* 4.2, PCIe, USB, LTE Coexistence, eFEM, M.2 2230 HE
	Model 8265NGW	802.11ac, 2x2, Bluetooth* 4.2, PCIe, USB, M.2 2230 MS
	Model 8265D2W	802.11ac, 2x2, Bluetooth* 4.2, PCIe, LTE Coexistence, M.2 1216 SD
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Dual Band Wireless-AC 8265: 2 X 2	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	Intel® Dual Band Wireless-AC 8265: 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	

## Intel® Wireless-AC 9260 (Models 9260NGW and 9260D2WL)

<b>General</b>		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.67 (<math>\pm 0.08</math>) mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: <math>2.9 \pm 0.3</math> g</li> <li>M.2 1216: <math>0.61 \pm 0.1</math> g</li> </ul>	
Antenna Diversity	Supported	

Radio ON/OFF Control	Supported	
Connector Interface	M.2: PCIe, USB	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux* (limited feature support), Chrome*	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct*.	
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc	
Roaming	Supports seamless roaming between access points	
Bluetooth	Bluetooth* 5	
<b>Security</b>		
Authentication	WPA* and WPA2*, 802.1X (EAP-TLS, TTLS, PEAP, EAP-SIM, EAP-AKA, EAP-AKA)	
Authentication Protocols	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2*	
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP	
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP	
<b>Compliance</b>		
US Government	FIPS, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	9260NGW	802.11ac wave 2, 2x2, Bluetooth* 5, PCIe, USB, M.2 2230
	9260D2WL	802.11ac wave 2, 2x2, Bluetooth* 5, PCIe, USB, M.2 1216 LTE Coex
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Wireless-AC 9260: 2 X 2	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	1.73 Gbps when using 160MHz channels	
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	54, 48, 36, 24, 18, 12, 9, 6 Mbps	

Rates	
IEEE 802.11b Data Rates	11, 5.5, 2, 1 Mbps

## Intel® Wireless-AC 9461 (Models 9461NGW/9461D2W)

General		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm</li> <li>M.2 1216: 12 mm x 16 mm x 1.57 (+-0.08) mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.7g</li> <li>M.2 1216: 0.7g</li> </ul>	
Antenna Diversity	Supported	
Radio ON/OFF Control	Supported	
Connector Interface	M.2: CNVio	
Operating Temperature (Adapter Shield)	0°C to +80°C	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux* (limited feature support), Chrome	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct	
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc	
Roaming	Supports seamless roaming between access points	
Bluetooth	Bluetooth* 5	
Security		
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, EAP-SIM, EAP-AKA)	
Authentication Protocols	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2	
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP	
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP	
Compliance		
Regulatory	For a list of country approvals, please contact your local Intel representatives.	
US Government	FIPS, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
Model Numbers		
Models	9461NGW	802.11ac wave 2, 1x1, Bluetooth* 5, PCIe, USB, M.2 2230, Single Antenna
	9461D2W	802.11ac wave 2, 1x1, Bluetooth* 5, PCIe, USB, M.2 1216, Single Antenna
Frequency Modulation	5GHz (802.11ac/n)	2.4GHz (802.11b/g/n)

Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Wireless-AC 9461: 1 X 1	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	433 Mbps when using 80MHz channels	
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	

## Intel® Wireless-AC 9462 (Models 9462NGW/9462D2W)

<b>General</b>	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm</li> <li>M.2 1216: 12 mm x 16 mm x 1.57 (+-0.08) mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.7g</li> <li>M.2 1216: 0.7g</li> </ul>
Antenna Diversity	Supported
Radio ON/OFF Control	Supported
Connector Interface	M.2: CNVio
Operating Temperature (Adapter Shield)	0°C to +80°C
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)
Operating Systems	Microsoft Windows 10*, Linux* (limited feature support), Chrome
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc
Roaming	Supports seamless roaming between access points
Bluetooth	Bluetooth* 5
<b>Security</b>	
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, EAP-SIM, EAP-AKA)
Authentication	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2

<b>Protocols</b>		
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP	
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP	
<b>Compliance</b>		
Regulatory	For a list of country approvals, please contact your local Intel representatives.	
US Government	FIPS, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	9462NGW	802.11ac wave 2, 1x1, Bluetooth* 5, PCIe, USB, M.2 2230, Diversity Antenna
	9462D2W	802.11ac wave 2, 1x1, Bluetooth* 5, PCIe, USB, M.2 1216, Diversity Antenna
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Wireless-AC 9462: 1 X 1	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	433 Mbps when using 80MHz channels	
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	

## Intel® Wireless-AC 9560 (Models 9560NGW/9560D2W)

<b>General</b>		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm</li> <li>M.2 1216: 12 mm x 16 mm x 1.8 mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.6g</li> <li>M.2 1216: 0.6g</li> </ul>	
Antenna Diversity	Supported	
Radio ON/OFF Control	Supported	

Connector Interface	M.2: CNVio	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux* (limited feature support), Chrome*	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct* (For Microsoft Windows* only).	
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11-2016	
Roaming	Supports seamless roaming between access points	
Bluetooth	Bluetooth* 5	
<b>Security</b>		
Authentication	WPA* and WPA2*, 802.1X (EAP-TLS, TTLS, PEAP, EAP-SIM, EAP-AKA, EAP-AKA)	
Authentication Protocols	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2*	
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP	
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP	
<b>Compliance</b>		
US Government	FIPS, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	9560NGW	802.11ac wave 2, 2x2, Bluetooth* 5, PCIe, USB, M.2 2230
	9560D2W	802.11ac wave 2, 2x2, Bluetooth* 5, PCIe, USB, M.2 1216
<b>Frequency Modulation</b>	<b>5GHz (802.11ac/n)</b>	<b>2.4GHz (802.11b/g/n)</b>
Frequency band	5.15GHz - 5.85GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	All channels as defined by the relevant specification and country rules.	
Spatial streams	Intel® Wireless-AC 9560: 2 X 2	
<b>Data Rates</b>	All data rates are theoretical maximums.	
IEEE 802.11ac Data Rates	1.73 Gbps when using 160MHz channels	
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
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## Intel® Wi-Fi 6 AX101 (AX101NGW/AX101D2W)

General		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.65 (<math>\pm 0.05</math>) mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.33 (<math>\pm 0.3</math>) g</li> <li>M.2 1216: 0.61 (<math>\pm 0.1</math>) g</li> </ul>	
Antenna Diversity	Supported	
Radio ON/OFF Control	Supported	
Connector Interface	M.2: CNVio2	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux*, Chrome OS*	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* 6, Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA*, WPA2*, WPA3*, WPS*, PMF*, Wi-Fi Direct*, Wi-Fi Agile Multiband*, Wi-Fi Optimized Connectivity*, Wi-Fi Location*, and Wi-Fi TimeSync*	
IEEE WLAN Standard	IEEE 802.11-2016 and select amendments (selected feature coverage) IEEE 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax; Fine Timing Measurement based on 802.11-2016	
Bluetooth	Bluetooth* 5.1	
Security		
Authentication	WPA* and WPA2* Personal and Enterprise; WPA3* (pending OS support)	
Authentication Protocols	802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')	
Encryption	64-bit and 128-bit WEP, TKIP, 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	AX101NGW	Wi-Fi 6 (802.11ax) 1x1 80MHz, Bluetooth* 5.1, M.2 2230, Antenna Diversity
	AX101D2W	Wi-Fi 6 (802.11ax) 1x1 80MHz, Bluetooth* 5.1, M.2 1216, Antenna Diversity

## Intel® Wi-Fi 6 AX200 (AX200NGW/AX200D2WL)

<b>General</b>		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.65 (<math>\pm 0.05</math>) mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.33 (<math>\pm 0.3</math>) g</li> <li>M.2 1216: 0.61 (<math>\pm 0.1</math>) g</li> </ul>	
Antenna Diversity	Supported	
Radio ON/OFF Control	Supported	
Connector Interface	M.2: PCIe, USB	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux*, Chrome OS*	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS*, PMF*, Wi-Fi Direct*, Wi-Fi Miracast*, Wi-Fi Agile Multiband*, Wi-Fi Optimized Connectivity*, Wi-Fi Location*, Passpoint*, Wi-Fi Aware*, and Wi-Fi TimeSync*	
IEEE WLAN Standard	IEEE 802.11-2016 and select amendments (selected feature coverage) IEEE 802.11a, b, g, n, ac, ax, d, e, h, i, k, r, u, v, w, ai; Fine Timing Measurement based on 802.11-2016	
Bluetooth	Bluetooth* 5	
<b>Security</b>		
Authentication	WPA* and WPA2* Personal and Enterprise; WPA3* (pending OS support)	
Authentication Protocols	802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')	
Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP, 256-bit AES-GCMP	
<b>Compliance</b>		
Regulatory	For a list of country approvals, please contact your local Intel representatives.	
US Government	FIPS 140-2, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	AX200NGW	802.11ax, 2x2, Bluetooth* 5, M.2 2230
	AX200D2WL	802.11ax, 2x2, Bluetooth* 5, M.2 1216; LTE Coexistence
<b>Frequency Modulation</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	5.15GHz - 5.895GHz (dependent on country)	2.400 - 2.4835GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM,	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256

	1024 QAM	QAM, 1024 QAM
Wireless Medium	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 specification and country rules.	
<b>Data Rates</b>	All data rates are theoretical maximums.	
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	

## Intel® Wi-Fi 6 AX201 (AX201NGW/AX201D2W/AX201D2WL)

General	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.65 (<math>\pm 0.05</math>) mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.33 (<math>\pm 0.3</math>) g</li> <li>M.2 1216: 0.61 (<math>\pm 0.1</math>) g</li> </ul>
Radio ON/OFF Control	Supported
Connector Interface	M.2: CNVio2
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)
Operating Systems	Microsoft Windows 10*, Linux*, Chrome OS*
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS*, PMF*, Wi-Fi Direct*, Wi-Fi Miracast*, Wi-Fi Agile Multiband*, Wi-Fi Optimized Connectivity*, Wi-Fi Location*, Passpoint*, Wi-Fi Aware*, and Wi-Fi TimeSync*
IEEE WLAN Standard	<p>IEEE 802.11-2016 and select amendments (selected feature coverage)</p> <p>IEEE 802.11a, b, g, n, ac, ax, d, e, h, i, k, r, u, v, w, ai; Fine Timing Measurement based on 802.11-2016</p>
Bluetooth	Bluetooth* 5
Security	

Authentication	WPA* and WPA2* Personal and Enterprise; WPA3* (pending OS support)	
Authentication Protocols	802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')	
Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP, 256-bit AES-GCMP	
<b>Compliance</b>		
Regulatory	For a list of country approvals, please contact your local Intel representatives.	
US Government	FIPS 140-2, FISMA	
Product Safety	UL, C-UL, CB (IEC 62368-1)	
<b>Model Numbers</b>		
Models	Model AX201NGW	802.11ax, 2x2, Bluetooth* 5, M.2 2230
	AX201D2W	802.11ax, 2x2, Bluetooth* 5, M.2 1216
	AX201D2WL	802.11ax, 2x2, Bluetooth* 5, M.2 1216; LTE Coexistence
<b>Frequency Modulation</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	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	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
Wireless Medium	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 specification and country rules.	
<b>Data Rates</b>	All data rates are theoretical maximums.	
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	

## Intel® Wi-Fi 6 AX203 (AX203NGW/AX203D2W)

<b>General</b>		
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.65 (<math>\pm 0.05</math>) mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.33 (<math>\pm 0.3</math>) g</li> </ul>	

	<ul style="list-style-type: none"> <li>• M.2 1216: 0.61 (<math>\pm 0.1</math>) g</li> </ul>	
Radio ON/OFF Control	Supported	
Connector Interface	M.2: CNVio2	
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius	
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)	
Operating Systems	Microsoft Windows 10*, Linux*, Chrome OS*	
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* 6, Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA*, WPA2*, WPA3*, WPS*, PMF*, Wi-Fi Direct*, Wi-Fi Agile Multiband*, Wi-Fi Optimized Connectivity*, Wi-Fi Location*, and Wi-Fi TimeSync*	
IEEE WLAN Standard	IEEE 802.11-2016 and select amendments (selected feature coverage) IEEE 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax; Fine Timing Measurement based on 802.11-2016	
Bluetooth	Bluetooth* 5.1	
<b>Security</b>		
Authentication	WPA* and WPA2* Personal and Enterprise; WPA3* (pending OS support)	
Authentication Protocols	802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')	
Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP, 256-bit AES-GCMP	
<b>Compliance</b>		
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)	
<b>Model Numbers</b>		
Models	AX203NGW	Wi-Fi 6 (802.11ax) 2x2 80MHz, Bluetooth* 5.1, M.2 2230
	AX203D2W	Wi-Fi 6 (802.11ax) 2x2 80MHz, Bluetooth* 5.1, M.2 1216

## Intel® Wi-Fi 6E AX210 (AX210NGW/AX210D2W)

<b>General</b>	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>• M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>• M.2 1216: 12 mm x 16 mm x 1.65 (<math>\pm 0.08</math>) mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• M.2 2230: 2.33 (<math>\pm 0.3</math>) g</li> <li>• M.2 1216: 0.61 (<math>\pm 0.1</math>) g</li> </ul>
Radio ON/OFF Control	Supported
Connector Interface	M.2: PCIe, USB
Operating Temperature	0 to +80 degrees Celsius

(Adapter Shield)			
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)		
Operating Systems	Microsoft Windows 10*, Linux*		
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA2*, WPA3*, WPS*, PMF*, Wi-Fi Direct*, Wi-Fi Agile Multiband* and Wi-Fi TimeSync*		
IEEE WLAN Standard	IEEE 802.11-2016 and select amendments (selected feature coverage) IEEE 802.11a, b, g, n, ac, ax, d, e, h, i, k, r, u, v, w; Fine Timing Measurement based on 802.11-2016 802.11-2016, Wi-Fi Location R2 (802.11az) HW readiness		
Bluetooth	Bluetooth* 5.2		
<b>Security</b>			
Authentication	WPA2* and WPA3*		
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		
<b>Compliance</b>			
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)		
<b>Model Numbers</b>			
Models	AX210NGW	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 2230	
	AX210D2W	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 1216	
<b>Frequency Modulation</b>	<b>6-7GHz (802.11ax R2)</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	FCC: 5.925GHz-7.125GHz  EU: 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	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
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 specification and country rules.		
<b>Data Rates</b>	All data rates are theoretical maximums.		
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
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## Intel® Wi-Fi 6E AX211 (AX211NGW/AX211D2W/AX211D2WL)

General			
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.7 (<math>\pm 0.1</math>) mm</li> </ul>		
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.83 (<math>\pm 0.3</math>) g</li> <li>M.2 1216: 0.67 (<math>\pm 0.1</math>) g</li> </ul>		
Radio ON/OFF Control	Supported		
Connector Interface	M.2: CNVio2		
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius		
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)		
Operating Systems	Microsoft Windows 10*, Linux*		
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA3*, PMF*, Wi-Fi Direct*, and Wi-Fi Agile Multiband*		
IEEE WLAN Standard	<p>IEEE 802.11-2016 and select amendments (selected feature coverage)</p> <p>IEEE 802.11a, b, g, n, ac, ax, d, e, h, i, k, r, u, v, w; Fine Timing Measurement based on 802.11-2016</p> <p>Wi-Fi Location R2 (802.11az) HW readiness</p>		
Bluetooth	Bluetooth* 5.2		
Security			
Authentication	WPA2* and WPA3*		
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	AX211NGW	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 2230	
	AX211D2W	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 1216	
	AX211D2WL	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 1216, LTE Coex	
Frequency Modulation	6-7GHz (802.11ax R2)	5GHz (802.11a/n/ac/ax)	2.4GHz (802.11b/g/n/ax)
Frequency band	FCC: 5.925GHz-7.125GHz	5.15GHz - 5.895GHz	2.400 - 2.4835GHz

	EU: 5925GHz- 6.425GHz (dependent on country)	(dependent on country)	(dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
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 specification and country rules.		
<b>Data Rates</b>	All data rates are theoretical maximums.		
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		

## Intel® Wi-Fi 6E AX411 (AX411NGW/AX411E2W)

General	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1625: 16 mm x 25 mm x 2.0 mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>M.2 2230: 2.83 (<math>\pm 0.3</math>) g</li> <li>M.2 1625: 0.90 (<math>\pm 0.1</math>) g</li> </ul>
Radio ON/OFF Control	Supported
Connector Interface	M.2: CNVio2
Operating Temperature (Adapter Shield)	0 to +80 degrees Celsius
Humidity	50% to 90% RH non-condensing (at temperatures of 25 °C to 35 °C)
Operating Systems	Microsoft Windows 10*, Linux*
Wi-Fi Alliance* certification	Wi-Fi CERTIFIED* 6, Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA3*, PMF*, Wi-Fi Direct*, and Wi-Fi Agile Multiband*
IEEE WLAN Standard	<p>IEEE 802.11-2016 and select amendments (selected feature coverage)</p> <p>IEEE 802.11a, b, g, n, ac, ax, d, e, h, i, k, r, u, v, w; Fine Timing Measurement based on 802.11-2016</p>

	Wi-Fi Location R2 (802.11az) HW readiness		
Bluetooth	Bluetooth* 5.2		
<b>Security</b>			
Authentication	WPA2* and WPA3*		
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		
<b>Compliance</b>			
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)		
<b>Model Numbers</b>			
Models	AX411NGW	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 2230	
	AX411E2W	Wi-Fi 6E (6GHz), 2x2, Bluetooth* 5.2, M.2 1625	
<b>Frequency Modulation</b>	<b>6-7GHz (802.11ax R2)</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	FCC: 5.925GHz-7.125GHz  EU: 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	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
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 specification and country rules.		
<b>Data Rates</b>	All data rates are theoretical maximums.		
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		

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

<b>General</b>	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>M.2 1216: 12 mm x 16 mm x 1.7(±0.1) mm</li> </ul>

Weight	<ul style="list-style-type: none"> <li>M.2 2230: 3.07 (<math>\pm 0.15</math>) g</li> <li>M.2 1216: 0.75 (<math>\pm 0.04</math>) g</li> </ul>		
Radio ON/OFF Control	Supported		
Connector Interface	M.2: PCIe*, USB		
Operating Temperature (Adapter Shield)	0 to +80 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	<p>IEEE 802.11-2020 and select amendments (selected feature coverage)</p> <p>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</p> <p>Wi-Fi Location R2 (802.11az) HW readiness</p>		
Bluetooth	Bluetooth* 5.4		
<b>Security</b>			
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		
<b>Compliance</b>			
Regulatory	For a list of country approvals, please contact your local Intel representatives.		
US Government	FIPS 140-3		
Product Safety	UL, C-UL, CB (IEC 62368-1)		
<b>Model Numbers</b>			
Models	BE200NGW	Wi-Fi 7, 2x2, Bluetooth* 5.4, M.2 2230	
	BE200D2W	Wi-Fi 7, 2x2, Bluetooth* 5.4, M.2 1216	
<b>Frequency Modulation</b>	<b>6-7GHz (802.11ax R2) (802.11be)</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	FCC: 5.925GHz-7.125GHz  EU: 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, 4K-QAM (4096-QAM)	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
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 specification and country rules.		

<b>Data Rates</b>	All data rates are theoretical maximums.
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

## Intel® Wi-Fi 7 BE202 (BE200NGW M/BE200D2W M)

<b>General</b>	
Dimensions (H x W x D)	<ul style="list-style-type: none"> <li>• M.2 2230: 22 mm x 30 mm x 2.4 mm [1.5 mm max (top side)/ 0.1 mm max (bottom side)]</li> <li>• M.2 1216: 12 mm x 16 mm x 1.7(±0.1) mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• M.2 2230: 3.07 (±0.15) g</li> <li>• M.2 1216: 0.75 (±0.04) g</li> </ul>
Radio ON/OFF Control	Supported
Connector Interface	M.2: PCIe*, USB
Operating Temperature (Adapter Shield)	0 to +80 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	<p>IEEE 802.11-2020 and select amendments (selected feature coverage)</p> <p>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</p> <p>Wi-Fi Location R2 (802.11az) HW readiness</p>
Bluetooth	Bluetooth* 5.4
<b>Security</b>	
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

<b>Compliance</b>			
Regulatory	For a list of country approvals, please contact your local Intel representatives.		
US Government	FIPS 140-3		
Product Safety	UL, C-UL, CB (IEC 62368-1)		
<b>Model Numbers</b>			
Models	BE200NGW M	Wi-Fi 7, 160MHz 2x2, Bluetooth* 5.4, M.2 2230	
	BE200D2W M	Wi-Fi 7, 160MHz 2x2, Bluetooth* 5.4, M.2 1216	
<b>Frequency Modulation</b>	<b>6-7GHz (802.11ax R2) (802.11be)</b>	<b>5GHz (802.11a/n/ac/ax)</b>	<b>2.4GHz (802.11b/g/n/ax)</b>
Frequency band	FCC: 5.925GHz-7.125GHz  EU: 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, 4K-QAM (4096-QAM)	BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM	CCK, DQPSK, DBPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
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 specification and country rules.		
<b>Data Rates</b>	All data rates are theoretical maximums.		
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		

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## Customer Support

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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>

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# Warranty Information

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## One-Year Limited Hardware Warranty

### Limited Warranty

In this warranty statement, the term "Product" applies to the wireless adapters listed in [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 a period of one (1) year beginning on the date the Product was purchased in its original sealed packaging.

SOFTWARE OF ANY KIND DELIVERED WITH OR AS PART OF THE PRODUCT IS EXPRESSLY PROVIDED "AS IS", SPECIFICALLY EXCLUDING ALL OTHER WARRANTIES, EXPRESS, IMPLIED (INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE), provided however, that Intel warrants that the media on which the software is furnished will be free from defects for a period of ninety (90) days from the date of delivery. If such a defect appears within the warranty period, you may return the defective media to Intel for replacement or alternative delivery of the software at Intel's discretion and without charge. Intel does not warrant or assume responsibility for the accuracy or completeness of any information, text, graphics, links or other items contained within the software.

If the Product which is the subject of this Limited Warranty fails during the warranty period for reasons covered by this Limited Warranty, Intel, at its option, will:

- **REPAIR** the Product by means of 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.

THIS LIMITED WARRANTY, AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER APPLICABLE STATE, NATIONAL, PROVINCIAL OR LOCAL LAW, APPLY ONLY TO YOU AS THE ORIGINAL PURCHASER OF THE PRODUCT.

### Extent of Limited Warranty

Intel does not warrant that the Product, whether purchased stand-alone or integrated with other products, including without limitation, semi-conductor components, will be free from design defects or errors known as "errata." Current characterized errata are available upon request. Further, this Limited Warranty does NOT cover: (i) any costs associated with the replacement or repair of the Product, including labor, installation or other costs incurred by you, and in particular, any costs relating to the removal or replacement of any Product soldered or otherwise permanently affixed to any printed circuit board or integrated with other products; (ii) damage to the Product due to external causes, including accident, problems with electrical power, abnormal, mechanical or environmental conditions, usage not in accordance with product instructions, misuse, neglect, accident, abuse, alteration, repair, 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.

### How to Obtain Warranty Service

To obtain warranty service for the Product, you may contact your original place of purchase in accordance with 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 of time 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.

## **WARRANTY LIMITATIONS AND EXCLUSIONS**

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