Nearly 3X higher peak data rates and up to 4X capacity

The Intel® Wi-Fi 6 AX200 (Gig+) adapter supports the new IEEE 802.11ax standard – Wi-Fi 6 technology and is Wi-Fi CERTIFIED 6™. The product supports 2x2 Wi-Fi 6 technology, including new features such as UL and DL OFDMA and 1024QAM, delivering data rates of up to 2.4Gbps² and increased network capacity as well as Bluetooth® 5.1 support. These new features deliver a significant improvement in user experience in dense deployments, supporting fast uploads and downloads, lower latency and longer battery life compared to solutions supporting 802.11ac. Combined with Intel® Core™ processors and exceptional Intel wireless innovations, the Intel® Wi-Fi 6 AX200 module can provide Gigabit wireless speed² and dramatically improve your connected experience at home, work, or on the go.

<table>
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<th>1ST GENERATION INTEL WI-FI 6 WIRELESS</th>
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<td>Increased Capacity</td>
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<td>Faster Speed</td>
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<td>802.11ax Dual band 2x2 160MHz</td>
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<td>Improved Security</td>
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EXPERIENCE THE INTEL® DIFFERENCE

Worldwide Regulatory Support
Enables performance optimized worldwide regulatory compliance SKU. The Intel® Wi-Fi 6 AX200 module detects its location and automatically optimizes the Wi-Fi settings to local regulatory requirements, maximizing performance in each geography, simplifying travel experience and global enterprise procurement. Future regulatory changes are easily managed during the product life cycle.

Intel® Dynamic Regulatory Solution
Support for Wi-Fi network and Bluetooth® Low Energy Human Interface Device (HID) connectivity in the platform’s UEFI (Unified Extensible Firmware Interface) environment during its boot stage. This capability enables use cases like OS recovery over Wi-Fi and Bluetooth® Low Energy-based keyboard and mouse connectivity in this pre-boot environment.

Wirelessly Project to the Big Screen
Project your 2-in-1 or laptop content instantly, without wires, on the big HD screen with stunning image clarity and sound using Wi-Fi Miracast®. Stream movies, videos, games, photos, connect with friends, and more. Experience it all, bigger and better than ever before.

BUSINESS-CLASS WIRELESS

Intel® vPro™ Technology
Supports Intel’s hardware-based security and management features built into Intel® Core™ vPro™ processors and chipsets that enable IT to manage PCs virtually anywhere, anytime, while reducing deployment costs, improving security and ROI.

Intel® Active Management Technology
Using integrated platform capabilities and popular third-party management and security applications, Intel® AMT allows IT or managed service providers to better discover, repair, and help protect their networked computing assets. Intel® AMT is a feature of Intel® Core™ processors with Intel® vPro™ technology.

INTEL® WI-FI 6 AX200 MODULE TECHNICAL SPECIFICATIONS

GENERAL

Dimensions (H x W x D)  
M.2 2230: 22mm x 30mm x 2.4mm [1.5mm Max (Top Side)/ 0.1mm Max (Bottom Side)]
M.2 1216: 12mm x 16mm x 1.67 (+/-0.08) mm

Weight
M.2 2230: 2.83 +/- 0.3 g
M.2 1216: 0.67 +/- 0.1 g

Radio ON/OFF Control
Supported

Connector Interface
M.2: PCIe*, USB

Operating Temperature (Adapter Shield)
0°C to +80°C

Humidity Non-Operating
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
Wi-Fi CERTIFIED® 6, Wi-Fi CERTIFIED® a/b/g/n/ac, WMM*, WMM*-Power Save, 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, 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 FEATURES

Security Methods
WPA2* Personal and Enterprise; WPA3*

Authentication Protocols
802.1X EAP-TLS, EAP-TTLS/MSCAPv2, PEAPv0 -MSCAPv2 (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 60950-1)
## PRODUCT NAME | MODEL NUMBER | VERSION
---|---|---
Intel® Wi-Fi 6 AX200 | AX200NGW | Wi-Fi 6 (802.11ax), 2x2, Bluetooth® 5.1, M.2 2230
Intel® Wi-Fi 6 AX200 | AX200D2WL | Wi-Fi 6 (802.11ax), 2x2, Bluetooth® 5.1, M.2 1216; LTE Coex

For more information on Intel® Wireless products, visit [intel.com/wireless](http://intel.com/wireless)

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1 Wi-Fi 6 (802.11ax) WFA certification is available since September 2019.
2 Based on the theoretical maximum bandwidth enabled by 2x2 802.11ax 160MHz implementations. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware and software configurations. Check with your device manufacturer for details.
3 “Nearly 3X higher peak data rates” Intel® Wi-Fi 6 AX claims are based on the comparison of the expected maximum theoretical data rates for similarly configured 802.11ax and standard 802.11ac Wi-Fi solutions as documented in IEEE 802.11ax draft 2.0 spec and IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.
4 In accordance with the IEEE 802.11ax PAR. For additional details, visit: [https://mentor.ieee.org/802.11/dcn/14/11-14-0165-01-0hew-802-11-hew-seg-proposed-par.docx](https://mentor.ieee.org/802.11/dcn/14/11-14-0165-01-0hew-802-11-hew-seg-proposed-par.docx).
5 Bluetooth® 5.1 Feature Overview, [https://3pl46c46ctx02p7rzdsvsg21-wpengine.netdna-ssl.com/wp-content/uploads/2019/03/1901_Feature_Overview_Brief_FINAL.pdf](https://3pl46c46ctx02p7rzdsvsg21-wpengine.netdna-ssl.com/wp-content/uploads/2019/03/1901_Feature_Overview_Brief_FINAL.pdf)
6 Intel® vPro™ Technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software and IT environment. To learn more visit: [http://www.intel.com/technology/vpro](http://www.intel.com/technology/vpro).
7 Requires activation and a system with a corporate network connection, an Intel® AMT-enabled chipset, network hardware and software. For notebooks, Intel® AMT may be unavailable or limited over a host OS-based VPN, when connecting wirelessly, on battery power, sleeping, hibernating or powered off. Results dependent upon hardware, setup and configuration. For more information, visit [http://www.intel.com](http://www.intel.com).
8 Support of Wi-Fi Alliance certifications is OS-dependent.
9 Some security solutions may not be supported by your device operating system and/or by your device manufacturer or may require additional hardware (e.g., UICC – SIM card). Check with your device manufacturer for details on availability.
10 On Microsoft Windows 10*.

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Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase. For more complete information about performance and benchmark results, visit [www.intel.com/benchmarks](http://www.intel.com/benchmarks).

Estimated results were obtained prior to implementation of recent software patches and firmware updates intended to address exploits referred to as “Spectre” and “Meltdown”. Implementation of these updates may make these results inapplicable to your device or system.

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Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

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