PRODUCT BRIEF
Intel® Centrino® Advanced-N 6205 for Desktop
802.11a/g/n, 2x2, dual-band Wi-Fi

Intel® Centrino® Advanced-N 6205 for Desktop

Premium Wireless Performance with Exceptional Intel Features

Intel® Centrino® Advanced-N 6205 delivers premium Wi-Fi performance with exceptional Intel-only features. This dual-stream (2x2), dual-band, 802.11a/g/n Wi-Fi product with Wi-Fi Direct* and an optimized external antenna combines faster speeds (up to 300 Mbps[1]), greater range and more reliability with Intel features, such as Intel® Smart Connect Technology, Intel® Wireless Display, and Intel® My WiFi Dashboard.

Recommended For

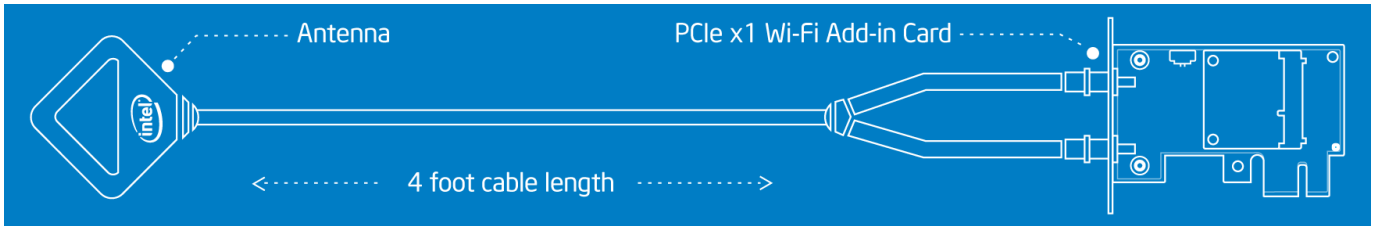
Business or home, data intensive apps, streaming HD video, gaming, and network connectivity in crowded, heavy traffic and large area Wi-Fi environments.

Next-Gen Wireless Connectivity

Dual Stream 2x2 Much faster than single stream 1x1	Save time by delivering more data more quickly. With a 2x2 adapter, your downloads, uploads and file transfers are done in half the time.
Dual Band 2.4 GHz and 5 GHz for more capacity	Reduce congestion and help packets reach their destination. The 5 GHz bandwidth offers 5x more capacity than standard 2.4 GHz to ensure everyone in your office or home is well connected.
Antenna Diversity More reliable home wide, office wide coverage.	Expect consistent and strong signal strength no matter where or how a PC is situated. It's like having more than one ear. With only one, you don't hear well when you're turned the wrong way.
Business Class Grow without adding cost	5 GHz offers at least 20 non-overlapping channels around the world. There are only 3 non-overlapping channels in 2.4 GHz, so when you add a 4th person they begin sharing air time.
Wi-Fi Direct* New game-changing technology certified by the Wi-Fi Alliance for direct device-to-device Wi-Fi connectivity	Enables Wi-Fi enabled devices to connect directly without the need for a WLAN or hotspot. With the Intel® My WiFi Dashboard you can chat, transfer files, create a personal hotspot, and sync over Wi-Fi Direct.*

Ultra Wireless Experience

Intel® Wireless Display[2] Share your personal and online content on a big HD screen (up to 1080p) with a simple wireless connection	Experience your favorite movies, videos, photos, online shows and more in full HD on your TV with great image clarity and sound. With a PC featuring Intel® Wireless Display and powered by an Intel® Core processor, share content from your hard disk, network or anywhere a browser can take you to a big screen.
Intel® Smart Connect Technology[3] Instant Internet and always updated mobility	Automatically updates important content and can identify access points while asleep for quicker Internet access on resume.
Intel® My WiFi Dashboard[4] Visually intuitive app for managing Wi-Fi Direct* connectivity and services	Use Wi-Fi Direct with the Intel® My WiFi Dashboard on your desktop to directly connect to Wi-Fi Direct devices like—mobile phones, cameras, printers, tablets, PCs, and gaming devices —to do things like transfer, share, print, and chat, whether you're connected to a Wi-Fi network, the Internet or no network at all.
Intel® PROSet/Wireless Software[5] Business-class WLAN client software with must-have IT features	Combines simplified user interface design with advanced IT tools that improve security, reduce complexity and save IT time and money. Streamlines client deployments and allows remote management of wireless settings and profiles by IT managers.



Intel® Centrino® Advanced-N 6205 Technical Specifications

General

Dimensions (H x W x D)	50.85 mm x 69.53 mm x 6.37 mm
Weight	40.68g (with full height PCI bracket, not including antenna weight)
Diversity	Antenna diversity supported by supplied, external antenna
Radio ON/OFF Control	Supported in both hardware and software
Connector interface	Standard PCIe x1
LED Output	On/Off
Operating Temperature (Adapter Shield)	0° to +80° C
Humidity Non-Operating	50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)
Operating Systems	Microsoft Windows 7*, Microsoft Windows Vista*, Microsoft Windows XP*, Microsoft Windows 8*, Linux*
Wi-Fi Alliance	Wi-Fi CERTIFIED* for 802.11a, 802.11b, 802.11g, 802.11n, WMM*, WPA*, WPA2*, and WPS Wi-Fi Direct for peer to peer device connections
Microsoft WHQL	Yes
IEEE WLAN Standard	IEEE 802.11a/b/g/n, 802.11d, 802.11e, 802.11i, 802.11h
Architecture	Infrastructure and SoftAP
Roaming[6]	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)

Security[7]

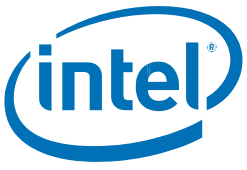
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, AES-CCMP, TKIP
Wi-Fi Direct* Encryption and Authentication	WPA2, AES-CCMP
Product Safety	UL, C-UL, CB (IEC 60950-1)

Compliance

Retail (Credit Card Processing)	PCI, CISP
Government	FIPS[8] ,FISMA

Product Name	Model Number	Version
Intel® Centrino® Advanced-N 6205	62205ANHMWDTX1G	802.11a/b/g/n, full height PCI bracket in bulk pack
	62205ANHMWDTX1H	802.11 a/b/g/n, half height PCI bracket in bulk pack
	62205ANHMWDTX1	802.11 a/b/g/n, full height, half height PCI brackets in retail box

For more information on Intel® Centrino® wireless products, visit intel.com/go/wireless

[1] Based on the theoretical maximum bandwidth enabled by 2x2 802.11n implementations with 2 spatial streams. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware and software configurations. Check with your PC manufacturer for details.
[2] Requires an Intel® Wireless Display enabled PC, compatible adapter, and TV. 1080p and Blu-Ray* or other protected content playback only available on 2nd generation Intel® Core™ processor-based PCs with built-in visuals enabled. Consult your PC manufacturer. For more information, see www.intel.com/go/widi.
[3] Intel® Smart Connect Technology requires a select Intel® processor, Intel® software and BIOS update, Intel® Wireless adaptor, and Internet connectivity. Solid state memory or drive equivalent may be required. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.
[4] Intel® My WiFi Dashboard is an optional feature and requires additional software and an Intel® Centrino® wireless adapter. Wi-Fi devices must be certified by the WiFi Alliance for 802.11a/g/n and Wi-Fi Direct* in order to connect. See www.intel.com/network/connectivity/products/wireless/mywifi.htm for more details.
[5] Intel® PROSet/Wireless Software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability.
[6] Roaming is supported only within each respective band and mode of access points.
[7] Some security solutions may not be supported by your PC's operating system and/or by your PC manufacturer. Check with your PC manufacturer for details on availability.
[8] Microsoft Windows 7 only.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.
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