Intel® Centrino® Advanced-N 6205

Premium Wireless Performance with Exceptional Intel Features

Intel® Centrino® Advanced-N 6205 delivers premium Wi-Fi performance with exceptional Intel-only features for an ultra mobile experience. This dual-stream (2x2), dual-band, 802.11a/g/n Wi-Fi product with Wi-Fi Direct* 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, Intel® My WiFi Dashboard and Intel® vPro™ Technology.

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, Dual Band 802.11a/g/n 2x2 and 2.4/5 GHz	Delivers up to 300 Mbps speed with multiple streams for best speed and connections in more places, through more walls, doors and floors. Use the power of 5 GHz to boost speeds and reduce congestion compared to older 2.4 GHz networks and devices.
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.*
Energy Efficient[2] Optimized power modes during periods of inactivity	Saves battery life for greater mobility and convenience.
Extended Availability[3] and Industrial Versions For embedded and machine-to-machine (M2M) applications	Extended availability and industrial temperature products meet the needs of industrial, communications, M2M, digital signage, retail and point-of-sale applications.

Ultra Mobile Experience

Intel® Wireless Display[4] 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[5] 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[6] Visually intuitive app for managing Wi-Fi Direct* connectivity and services	Use the ultimate portability of Wi-Fi Direct with the Intel® My WiFi Dashboard on your Ultrabook™, PC or other devices. Whether you're connected to a Wi-Fi network, public hotspot or no network at all – connect, communicate and collaborate with others in your vicinity. No extra hardware or cloud-based service. No fumbling for USB flash drives or complicated network setup.

Business-Class Management

Intel® vPro™ Technology[7] Supports Intel's hardware-based security and management features built into Intel® Core™ vPro™ processors and chipsets	Manage PCs virtually anywhere, anytime while reducing deployment costs, improving security and ROI.
Intel® Active Management Technology[8] Supports Intel asset management, remote system diagnostics, network protection, and network security technologies	Provides IT managers the capability to remotely discover, heal, and protect wireless clients regardless of the functional state of the operating system resulting in reduced on-site support costs.
Intel® PROSet/Wireless Enterprise Software[9] 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)	26.80 mm x 30.00 mm x 2.4 mm Max (Top Side) / 1.35 mm Max (Bottom Side)
Weight	4.0g
Diversity	On-board diversity support for systems designed with two antennas
Radio ON/OFF Control	Supported in both hardware and software
Connector interface	Half Mini Card form factor, based on PCIe electrical interface
LED Output	On/Off
Operating Temperature (Adapter Shield)	0° to +80°C; -40° to +85° C (Industrial Temperature Version)
Humidity Non-Operating	50% to 90% RH non-condensing (at temperatures of 25℃ to 35℃)
Operating Systems	Microsoft Windows 7*, Microsoft Windows 8* (planned), Linux*, Microsoft Windows XP*
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; Supports simultaneous Client and SoftAP modes in 2.4 GHz or 5 GHz (Not all versions)
Roaming[10]	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)

Security[11]

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[12] ,FISMA

Product Name	Model Number	Version
Intel® Centrino® Advanced-N 6205	62205ANHMW	802.11a/b/g/n
	62205ANHMWEB	802.11 a/b/g/n, Industrial Temp, Extended Availability[3]
	62205ANHMWEBC	802.11 a/b/g/n, Extended Availability[3]
	62205ANHMW1EB/2EB	802.11 a/b/g/n, 5 GHz SoftAP[13], Industrial Temp, Extended Availability

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] References power consumption refer to Wi-Fi module power consumption comparisons versus competing 802.11n WLAN solutions. Actual platform battery life savings will vary depending on your specific operating system, hardware and software configurations. Check with your PC manufacturer for details.
[3] The extended availability version (commercial temperature) is the standard commercial Intel® Centrino® Advanced-N 6205 product with extended product availability.
[4] 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.
[5] 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.
[6] 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.
[7] 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
[8] 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 & configuration. For more information, visit http://www.intel.com/technology/platform-technology/intel-amt
[9] Intel® PROSet/Wireless Software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability.
[10] Roaming is supported only within each respective band and mode of access points.
[11] 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.
[12] Microsoft Windows 7 only.
[13] 5GHz SoftAP mode only available on Linux