



PRODUCT BRIEF
 Intel® Centriano® Advanced-N 6235
 802.11a/g/n, 2x2, dual-band Wi-Fi + Bluetooth 4.0



Intel® Centriano® Advanced-N 6235



Premium Wireless Performance with Exceptional Features

The Intel® Centriano® Advanced-N 6235 delivers premium Wi-Fi performance with exceptional Intel-only features for an ultra mobile experience. This dual-stream (2x2), dual-band, Wi-Fi plus Bluetooth 4.0* product with Wi-Fi Direct* combines faster speeds (up to 300 Mbps¹), greater range and more reliability with innovative Intel features, such as Intel® Smart Connect Technology, 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 dual streams (2x2) for better performance and connectivity 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.
Bluetooth 4.0* (Low Energy) Dual mode Bluetooth		Connects to Bluetooth enabled devices such as a headset, keyboard, mouse and more, including Bluetooth low energy 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 Efficient² Optimized power modes during periods of inactivity		Saves battery life for greater mobility and convenience.
Available in Low Profile Version For the thinnest Ultrabook™ devices		Provides the same performance and reliability of the standard version in a low profile version for more aggressive system designs.

Ultra Mobile Experience

Intel® Smart Connect Technology⁴ 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 Dashboard⁴ 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 needed. No fumbling for USB flash drives or complicated network setup.

Business-Class Management

	Intel® vPro™ Technology⁵ 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 Technology⁶ 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 Software⁷ 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 6235 Technical Specifications

General

Dimensions (H x W x D)	Standard: 26.80 mm x 30.00 mm x 2.4 mm Max (Top Side) / 1.35 mm Max (Bottom Side) Low profile: 26.80 mm x 30.00 mm x 1.5 mm Max (Top Side) / 0.6 mm Max (Bottom Side)
Weight	3.7g
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
Humidity Non-Operating	50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)
Operating Systems	Microsoft Windows 7*, 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; Supports simultaneous Client and SoftAP modes in 2.4 GHz or 5 GHz
Roaming ⁸	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)
Bluetooth*	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)

Security⁹

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 ¹⁰ , FISMA

Product Name	Model Number	Version
Intel® Centrino® Advanced-N 6235	6235ANHMW 6235ANHMWLPG	802.11a/g/n, Bluetooth 4.0 802.11a/g/n, Bluetooth 4.0, Low Profile

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 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 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® 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>

⁶ 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>

⁷ Intel® PROSet/Wireless Software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability.

⁸ Roaming is supported only within each respective band and mode of access points.

⁹ 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.

¹⁰ 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.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including without limitation, liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice. For the most current product information, please visit: <http://www.intel.com/go/wireless>

Copyright © 2012 Intel Corporation. All rights reserved.

Intel, the Intel logo, Intel, and Intel Centrino are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

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