



Intel® Centrino® Wireless-N 130

Product Description

The Intel® Centrino® Wireless-N 130 is a 1x1, IEEE 802.11b/g/n Wi-Fi plus Bluetooth* wireless adapter that delivers up to 150 Mbps of bandwidth¹. This PCIe Half Mini Card provides a low profile design for existing laptops as well as for newer, thinner, smaller laptops, netbooks and tablets. The Intel® Centrino® Wireless-N 130 also supports a host of Intel-only features, such as Intel® My WiFi Technology, to enhance today's mobile lifestyle.



Features

- Up to 150 Mbps¹ bandwidth
- Bluetooth* connectivity
- IEEE standards based 802.11b/g/n WLAN adapter
- Advanced security via 802.11i
- Industry-leading power consumption²
- Includes Wi-Fi PAN - Intel® My WiFi Technology³
- Easy to use Intel® PROSet/Wireless WLAN Software³
- Performance-optimized for Connect with Intel® Centrino® certified access points

Features	Benefits
Performance, Flexibility, and Mobility	
High Speed Data Rate¹ Up to 150 Mbps ¹ data rate compared to 54 Mbps 802.11a/b/g solutions	Minimizes the time needed to transfer large files and enables applications such as High Definition (HD) video streaming, Voice over IP (VoIP), and multi-player gaming.
Intel® My WiFi Technology³ Intel My WiFi Technology offers seamless connectivity to Wi-Fi consumer electronic devices	Enables wireless connectivity to millions of Wi-Fi enabled devices such as digital cameras, MP3 players, or game players for file sharing or file streaming activities.
Bluetooth connectivity Bluetooth 2.1, 2.1+EDR, 3.0, 3.0+HS	Enables wireless connectivity to Bluetooth enabled devices such as mice, keyboards, and headsets.
Industry-leading power consumption² Optimized power modes (sleep states) reduce power consumption during periods of inactivity	Reduced WLAN power consumption results in potentially longer platform battery life ² for greater utility, enjoyment, and convenience.
PCIe Half Mini Card form factor Low profile, one sided design	Enables the Intel® Centrino® Wireless-N 130 to be designed into next-generation laptops and netbooks and tablets.
Validation Leverage	
Common software across all Intel® Centrino® Wireless adapters Intel® PROSet/Wireless Software and drivers	Reduces the time spent validating Intel® Centrino® wireless adapters across customer platforms by establishing a single software package for all Wi-Fi drivers and applications.
Broadly validated Supported across most Intel® processors and chipsets	Enables flexible performance pairing of Intel® Centrino® wireless products with Intel® processors and chipsets.
Manageability and Security	
Advanced security via 802.11i Wireless security supporting AES encryption	Ensures wireless networks are protected from unauthorized access via stronger authentication and encryption mechanisms.
Intel® PROSet/Wireless Software³ Intel WLAN management software	Provides a familiar user interface for clients and excellent management tools for business.
Interoperability	
IEEE standards based 802.11b/g/n WLAN adapter Wi-Fi CERTIFIED* to 802.11b, 802.11g, and 802.11n standards	Ensures interoperability with other IEEE-based wireless access points and wireless network adapters.
Connect with Intel® Centrino® Intel certification that focuses on interoperability between IEEE 802.11n devices	Supports access points with the Connect with Intel® Centrino® label to ensure that both the AP and the Intel® Centrino® Wireless-N 130 equipped device has passed rigorous interoperability tests for maximum performance.

Intel® My WiFi Technology³



Intel® My WiFi Technology creates a mobile Wi-Fi Personal Area Network (Wi-Fi PAN) on your Intel laptop to directly connect up to eight (8) Wi-Fi Certified devices regardless of whether a WLAN is available or accessible. Designed for Intel® Centrino® wireless modules with these features:

- Included with Intel® Centrino® wireless adapters- no dongles needed
- Enables concurrent WLAN and Wi-Fi PAN connections
- Easy-to-use “My WiFi” GUI
- Operates on Microsoft Windows 7*
- Supports Microsoft Windows Internet Connection Sharing (ICS)
- Enables easy security setup with PIN and Push Button Wi-Fi Protected Setup (WPS)*
- Supports latest Wi-Fi security features.
- User configurable settings include SSID, network name, and IP filters

Intel® PROSet/Wireless WiFi Software³



Intel® PROSet/Wireless WiFi Software for Microsoft Windows is available for users of Intel® WLAN hardware. The latest version of the software helps enable a superior experience by providing enhancements for end users as well as IT administrators who deploy and manage wireless networks. Features include:

- Simplified, consistent user interface design
- Includes IT Administrator Toolkit for remote client management
 - Create self-extracting administrator packages
 - Central control over driver and application settings
 - Single Sign On for Microsoft Windows networks
- Persistent connection profiles for client maintenance
- Advanced security support including WPA2 and AES-CCMP
- Intelligent troubleshooting and diagnostics tools
- Interoperability across IEEE 802.11 standards

Intel® Centrino® Wireless-N 130 Technical Specifications

General

Dimensions (H x W x D)	PCIe Half MiniCard: 1.06 in x 1.18 in x 0.12 (26.80 mm x 30.00 mm x 3.10 mm)
Weight	PCIe Half MiniCard: 3.4g
Receive 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	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* 32/64-bit, Linux*
Wi-Fi Alliance	Wi-Fi CERTIFIED* for 802.11b, 802.11g, 802.11n, WMM*, WPA*, WPA2*, and WPS
Microsoft WHQL	YES
IEEE WLAN Standard	IEEE 802.11b/g/n, 802.11d, 802.11e, 802.11i, 802.11h
Architecture	Infrastructure or ad hoc (peer-to-peer)
Roaming ⁴	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11b/g, and 802.11b/g/n)
Bluetooth	Bluetooth 2.1, 2.1+EDR, 3.0, 3.0+HS

Security⁵

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
Product Safety	UL, C-UL, CB (IEC 60950-1)

Compliance

Retail (Credit Card Processing)	PCI, CISP
Government	FIPS ⁶ , FISMA

Products Available	Model Code	Version
Intel® Centrino® Wireless-N 130	130BNHMW	130BNHMW (supports PCIe Half MiniCard form factor)
Intel® Centrino® Wireless-N 130	130BGHMW	130BGHMW (Russia SKU)

For more information on Intel® Centrino® wireless products, visit <http://www.intel.com/go/wifi>

¹ Based on the theoretical bandwidth maximum enabled by 1x1 802.11n implementations with 1 transmit and 1 receive 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 improved battery life as measured by MobileMark* 2005, refer to platform 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® My WiFi Technology and/or PROSet for Wireless software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability. Intel® My WiFi Technology is designed to work with the Microsoft Windows Vista* and Microsoft Windows 7* operating systems. Wi-Fi Personal Area Network refers only to Wi-Fi enabled devices connecting to the PC via Intel® My WiFi Technology. Wi-Fi devices must be certified by the Wi-Fi Alliance for 802.11b/g/a. Check with your PC manufacturer for more details.

⁴ Roaming is supported only between each respective band and mode of access points.

⁵ 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.

⁶ Microsoft Windows Vista and Microsoft Windows 7 only.

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