PRODUCT BRIEF
Intel® Centrino® Wireless-N 105
802.11b/g/n, 1x1, single-band Wi-Fi

Intel® Centrino® Wireless-N 105

Good Wireless Performance with Innovative Intel Features

Intel® Centrino® Wireless-N 105 delivers good Wi-Fi performance with innovative Intel-only features for a richer mobile experience. This single-stream (1x1), single-band, 802.11b/g/n Wi-Fi product with Wi-Fi Direct* combines good speed (up to 150 Mbps[1]), range and reliability with the Intel ® My WiFi Dashboard.

Recommended For

Home email and Web browsing in low to moderate traffic and low interference Wi-Fi environments.

Next-Gen Wireless Connectivity

Single Stream, Single Band 802.11b/g/n 1x1 and 2.4 GHz	Delivers up to 150 Mbps speed in the 2.4 GHz band.
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.

Ultra Mobile Experience

Intel® My WiFi Dashboard[3] 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.

Intel® Centrino® Wireless-N 105 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	2.9g
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*, Linux* Microsoft Windows 8*
Wi-Fi Alliance	Wi-Fi CERTIFIED* for 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 802.11b/g/n, 802.11d, 802.11e, 802.11i, 802.11h
Architecture	Infrastructure and SoftAP
Roaming[4]	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11b/g/n)

Intel® Centrino® Wireless-N 105 Technical Specifications

Security[5]

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

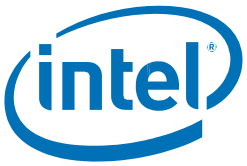
Retail (Credit Card Processing)	PCI, CISP
Government	FIPS[6] ,FISMA

Product Name	Model Number	Version
Intel® Centrino® Wireless-N 105	105BNHMW	802.11b/g/n

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

[1] Based on the theoretical maximum bandwidth enabled by 1x1 802.11n implementations with 1 spatial stream. 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 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] 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.
[4] Roaming is supported only within 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 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



326740-001US

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Intel:

105BN.HMWWB 105BN.HMWG