

## Intel® PRO/Wireless 3945ABG Network Connection

## **Product Description:**

The Intel® PRO/Wireless 3945ABG Network Connection is an embedded 802.11a/b/g PCle Mini Card network adapter operating in the 2.4GHz and 5GHz spectrum. The new solution has support for the latest wireless industry standards, and offers a host of features that will enhance today's mobile lifestyle.



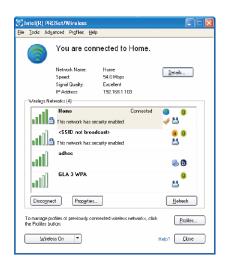
## **Key Features:**

- 802.11e QoS with enhancements for VoIP
- Noise Interference Filter enhances performance, especially in areas with wireless signal overlap
- Wake on WLAN Support allows waking up a notebook remotely and distributing upgrades and patches
- Business Class Wireless Suite offering Enhanced VolP Quality Technology and Optimal AP Selection Technology
- Intel® PROSet/Wireless Software v10.1 with a new IT Administrator Toolkit and GUI enhancements that simplify connecting to WLAN networks
- Advanced roaming and AP selection algorithms based on link quality parameters
- IEEE 802.11a/b/g standard tri-mode Wi-Fi CERTIFIED\* Wireless LAN support (2.4GHz and 5GHz)\*
- Up to 54 Mbps data rates
  Note: 802.11b up to 11Mbps and 802.11a/g up to 54 Mbps data rates
- Industry-standard wireless LAN security support is provided (802.11i, 802.1X, WEP, WPA, WPA2, AES<sup>5</sup>)<sup>‡</sup>
- Cisco\* Compatible Extensions v4 support available on certain models. Check with your PC manufacturer for details§
- Support for antenna diversity enables optimized WLAN performance for multi-antenna systems
- Intel® Wireless Coexistence System capability enables Bluetooth\* co-existence

## Intel® PROSet/Wireless Software v10.1°

Intel® PROSet/Wireless Software v10.1 is available for users of Intel® PRO/Wireless hardware. The latest version of the software helps enable a superior mobile experience by providing enhancements for end users as well as IT administrators who deploy and manage wireless networks.

- Simplified User Interface
- Added Administrator Tool capabilities
- Centralized control over driver and application settings
- Central profile management including Single Sign On
- Ability to distribute software updates, profiles and settings
- Support for Business Class Wireless Suite\*:
- Optimal AP Selection Technology
- Enhanced VoIP Quality Technology
- New VoIP API that takes advantage of 802.11e QoS, support for wideband codecs
- Additional profile management capabilities
- Supports the following hardware\*\*:
- Intel® PRO/Wireless 3945ABG Network Connection
- Intel® PRO/Wireless 2915ABG Network Connection
- Intel® PRO/Wireless 2200BG Network Connection
- \*\*Note: Some features may only be supported on the latest hardware





| Technical Specifications    |  |  |
|-----------------------------|--|--|
| Model Name                  | Intel® PRO/Wireless 3945ABG Network Connection   |  |
| Dimensions (H x W x D)      | 2.00 in x 1.18 in x 0.18 in (50.95mm x 30mm x 4.5mm)   |  |
| Weight                      | 6g   |  |
| Antenna Interface Connector | Hirose* U.FL-R-SMT mates with cable connector U.FL-LP-066  |  |
| Dual Diversity Antenna      | On-board dual diversity switching support for systems designed with two antennas   |  |
| Radio ON/OFF control°       | Supported by both hardware and software  |  |
| Connector Interface         | Mini Card form factor, based on PCle electrical interface  |  |
| LEDs output                 | Link, Activity   |  |
| Operating Temperature       | 0 to +80° Celsius  |  |
| Humidity Non-Operating      | 50% to 92% RH non-condensing (at temperatures of 25°C to 80°C)   |  |
| Operating System            | Microsoft* Windows* XP (Professional, Home, Tablet), 2000  |  |
| Wi-Fi Alliance              | Wi-Fi CERTIFIED* for 2.4GHz and 5GHZ band, WMM, WPA and WPA2   |  |
| Microsoft WHQL              | YES  |  |
| WLAN Standard               | IEEE 802.11a, IEEE 802.11g and IEEE 802.11b  |  |
| Architecture                | Infrastructure or ad hoc (peer-to-peer)  |  |
| Roaming <sup>1</sup>        | 802.11a, 802.11g and 802.11b compliant for seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g) |  |
| Security <sup>§</sup>       |  |  |
| AUTHENTICATION              | WPA§ and WPA2§, 802.1X (EAP-TLS, TTLS, MD5, PEAP, LEAP, EAP-FAST), EAP-SIM   |  |
| Authentication Protocols    | PAP, CHAP, MD5, GTC, MS-CHAP, MS-CHAPv2  |  |
| ENCRYPTION                  | 64-bit and 128-bit WEP, AES-CCMP, CKIP, TKIP   |  |
| Product Safety              | UL, C-UL, CB (IEC 60590)   |  |

| Products Available                             | Model Name |
|--|------------|
| Intel® PRO/Wireless 3945ABG Network Connection | WM3945AG   |

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

- \* Wireless connectivity and some features may require the purchase of additional software, services, or external hardware. Availability of public wireless LAN access points is limited, wireless functionality may vary by country and some hotspots may not support Linux-based Intel Centrino mobile technology systems. System performance measured by MobileMark\* 2005. System performance, battery life, wireless performance, and functionality will vary depending on the specific operating system, hardware, and software configurations. See http://www.intel.com/products/centrino/more\_info for more information.
- Some security solutions, Intel® PROSet/Wireless Software and/or Business Class Wireless Suite features 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.
- \* AES requires PC software upgrade that will be available in 2H'04 and requires access point support. Available on 802.11 b/g only. Check with your PC manufacturer for availability.
- ° Intel® PROSet/Wireless software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability.
- <sup>1</sup> Roaming is supported only between each respective band and mode of access points.

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