

Overview

Models

Intel PRO/Wireless 3945ABG (802.11a/b/g) Card

EX150AA#xxx

Introduction

The Intel PRO/Wireless 3945ABG (802.11a/b/g) Card is an 802.11a/b/g PCIe Mini Card network adapter operating in the 2.4GHz and 5GHz spectrum. The Intel PRO/Wireless 3945ABG (802.11a/b/g) Card works in concert with the other Intel Centrino mobile technology components to provide freedom and flexibility to work and play on the go -- no need to hunt for a phone jack, network cable, or plug in an external wireless card. Get connected through wireless LAN networks in your home, in the office, and in wireless LAN hotspots in airports, hotels and coffee shops with your HP Business Notebook and Intel PRO/Wireless 3945ABG (802.11a/b/g) Card.

Key Benefits

- Operates in both the 2.4GHz and 5GHz spectrums
- Tri-Mode (802.11a/b/g) solution provides deployment flexibility and connectivity convenience
- Features Intel® PROSet/Wireless Software that is designed for ease-of-use and manageability
- Supports up to 54 Mbps data rates
- Provides industry-standard wireless LAN security support
- 'Wake on' WLAN support allows waking up a notebook remotely and distributing upgrades and patches

Compatibility

The Intel PRO/Wireless 3945ABG (802.11a/b/g) Card is compatible with HP Compaq 2400, 4400, 6300, 6400, 7400, 8400 and 9400 series Notebook PCs and HP Compaq 4400 series Tablet PCs.

Service and Support

The Intel PRO/Wireless 3945ABG (802.11a/b/g) Card has a one-year limited warranty or the warranty remaining for the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day, as well as in online support forums. Certain restrictions and exclusions apply.

Technical Specifications

Wireless LAN standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g
Interoperability	Wi-Fi certified Cisco Compatible Extensions Program Version 4 compliant (details at http://www.hp.com/go/notebooks/WLAN)
Frequency band	2.4 GHz and 5 GHz
Data rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM
Security ¹	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program).
Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.
Media access protocol	CSMA/CA (Collision Avoidance) with ACK
Network architecture models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points.
Output power (for CCK) ²	15 dBm
Output power (for OFDM; power varies by data rate) ²	15 dBm
Power consumption	Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 150 mW (nominal) Sleep mode: 30 mW (max)
Power management	ACPI compliant power management 802.11 Compliant Power Saving Mode
Receiver sensitivity ³	54 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBm
Antenna type	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure
Range	802.11 a – Typical 600 feet – Outdoor Open Area (@6 Mbps) 150 feet – Indoor, Office environment 802.11 b – Typical 1200 feet – Outdoor Open Area (@1 Mbps) 300 feet – Indoor, Office environment 802.11 g – Typical 1200 feet – Outdoor Open Area (@1 Mbps) 300 feet – Indoor, Office environment
Form factor	PCIe minicard
Weight	0.013 lb (6 gm) (max)
Dimensions	0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)
Operating voltage	3.3v, 1.5v
Temperature	Operating 32° to 176° F (0° to 80° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% Non-operating 5% to 95%
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)

Technical Specifications

Configuration utility⁴

Choice of Configuration Utility:

- Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support)
- Microsoft Windows XP Wireless Network Connection Manager

NOTES:

1. Check latest software/driver release for updates on supported security features.
 2. Maximum output power may vary by country according to local regulations.
 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
 4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also be compatible with certain third-party software suppliers.
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