

3COM® WIRELESS 11G PCI ADAPTER

Cost-effective IEEE 802.11b/g wireless connectivity
for desktop computers with a PCI slot



3Com Wireless 11g PCI Adapter

OVERVIEW

Universal, high-speed wireless networking has just been made practical. The 3Com® Wireless 11g PCI Adapter provides complete access to IEEE 802.11b and IEEE 802.11g wireless networks, delivering the flexibility to place your desktop PC in a convenient location and continue to access the network. This adapter supports the latest, most effective authentication techniques to thwart intruders and simplifies network management.

KEY BENEFITS

COMPLETE IEEE 802.11 STANDARDS SUPPORT

The 3Com Wireless 11g PCI Adapter supports IEEE 802.11 networking standards—11b and 11g—so users can connect to the most common wireless networks. It is Wi-Fi CERTIFIED™ to ensure interoperability with compatible products from other vendors.

SECURE CONNECTIVITY

3Com offers one of the most robust suites of standards-based security on the market today. To protect wireless data, the PCI adapter supports Wi-Fi Protected Access (WPA™, WPA2™) and 128-bit Advanced Encryption Standard (AES) encryption for higher level security, and Wireless Equivalent Privacy (WEP™) 40-/60-/128-bit shared-key encryption.

To protect against unauthorized network access, the adapter supports the MD5 algorithm, IEEE 802.1X authentication, and EAP-TLS, PEAP and EAP-TTLS authentication protocols.

MULTIMEDIA CAPABLE

WiFi Multimedia (WMM®), based on the IEEE 802.11e standard, adds managed levels of Quality of Service (QoS) for data, voice and video. WMM is critical for a new generation of delay-sensitive applications such as Voice over Wireless IP (VoWIP).

HIGH PERFORMANCE AND RELIABILITY

Desktop users can access network resources, the Internet and email at speeds up to 54 Mbps, ideal for multimedia applications. A host of features ensure reliable wireless connections and excellent speeds. Wi-Fi® certification helps ensure interoperability with other vendors.

EASY TO SET UP AND USE

Setup and operation are extraordinarily easy, making the 3Com 11g PCI Adapter an intelligent choice for first-time wireless network users. Create profiles with specific settings for each wireless LAN network. Users just click the profile and they are configured for connection.

FEATURES

COMPATIBILITY

Standards support	Provides universal, complete access to IEEE 802.11b and 802.11g wireless networks
Wi-Fi Certification	Helps ensure interoperability with Wi-Fi compatible products from other vendors.

SECURITY

IEEE 802.1X and WPA2 network access control	Supports the latest, most effective authentication techniques to thwart intruders and simplify network management. WPA2 improves WLAN security with tighter access control.
WPA2, WPA, AES and WEP	Helps keep wireless transmissions private. WPA2 and WPA 128-bit AES encryption are used in IEEE 802.11g networks; 128-bit WEP encryption is supported for legacy networks.

PERFORMANCE

High Speed	Supports speeds up to 54 Mbps on IEEE 802.11g networks.
Wi-Fi Multimedia (WMM)	Adds managed QoS levels for data, voice and video. WMM—based on the 802.11e standard—is critical for today's generation of delay-sensitive applications.
Dynamic Rate Shifting	Automatically provides the best connection speed in response to changing traffic and environmental conditions.

EASE OF USE

3Com Wireless Utility	Creates profiles for each wireless network's specific settings—just click the proper profile to match the desired wireless network. Also displays connection status and features simple-to-use diagnostic tools.
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SPECIFICATIONS

STANDARDS CONFORMANCE

WiFi WMM, WPA, WPA2, IEEE 802.11b, IEEE 802.11e, IEEE 802.11g, IEEE 802.1X, IEEE 802.3, Wi-Fi CERTIFIED

SYSTEM REQUIREMENTS

PC with full- or half-size (mini) PCI slot; 3.3V
Drivers and supported operating systems: Windows 2000, XP and Vista

RECEIVE SENSITIVITY

802.11g	802.11b
54 Mbps: -70 dBm	11 Mbps: -83 dBm
48 Mbps: -71 dBm	5.5 Mbps: -86 dBm
36 Mbps: -75 dBm	2 Mbps: -87 dBm
24 Mbps: -79 dBm	1 Mbps: -89 dBm
18 Mbps: -82 dBm	
12 Mbps: -84 dBm	
9 Mbps: -86 dBm	
6 Mbps: -87 dBm	

INSTALLATION, CONFIGURATION AND MANAGEMENT

3Com Wireless Utility, pre-set defaults

LED INDICATORS

Activity, PWR/Link

DIMENSIONS

Length: 120.5 mm (4.74 in)
Width: 39.9 mm (1.57 in)
Height: 22.2 mm (0.88 in)
Weight: 66.7 g (2.33 oz)

OPERATING VOLTAGE

3.0V – 3.6V

DATA RATES SUPPORTED

802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
802.11b: 11, 5.5, 2 and 1 Mbps

FREQUENCY BAND

USA/Canada: 2.412 - 2.462 GHz
EU: 2.412 - 2.472 GHz

MODULATION TECHNIQUE

802.11b: DSSS (Direct Sequence Spread Spectrum)
802.11g: OFDM (Orthogonal Frequency Division Multiplexing) and DSSS

MEDIA ACCESS PROTOCOL

CSMA/CA with ACK

SECURITY

WPA2- Enterprise	EAP-TLS
WPA2- Personal	EAP-TTLS/MSCHAPv2
WPA- Enterprise	PEAPv0/EAP-MSCHAPv2
WPA- Personal	PEAPv1/EAP-GTC
WEP, 64- and 128-bit encryption	EAP-SIM
EAP Types	

ENVIRONMENTAL RANGE

Operating temperature: 0° to 45°C (32° to 113°F)

REGULATORY/AGENCY APPROVALS

Safety: UL/CSA 60950-1, EN/IEC 60950-1
Radio: FCC Part 15.247, RSS-210, EN 300 328 v1.7.1
EMC: FCC Part 15 Subpart B, EN 301 489-17
SAR: FCC Guideline for Human Exposure IEEE C95.1, EN50392

PACKAGE CONTENTS

Wireless LAN PCI card, Quick Install Guide, CD-ROM with drivers, full- and half-size PCI brackets, remote antenna

WARRANTY AND OTHER SERVICES

Three Year Limited Hardware Warranty
Limited Software Warranty for 90 days
30 days of telephone technical support
Refer to www.3com.com/warranty for details



ORDERING INFORMATION

PRODUCT DESCRIPTION

3Com Wireless 11g PCI Adapter
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REGION

North America, Europe, Asia and the Pacific Rim
South America

3COM SKU

3CRPCIG75
3CRPCIG75-LAT

Visit www.3com.com for more information about 3Com solutions.

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