



DATA SHEET

3Com® 11a/b/g Wireless PC Card with XJACK® Antenna

Key Benefits

Complete 802.11 Standards Support

Universal, high-speed wireless networking has just been made practical. This single card supports all three existing IEEE 802.11 networking standards—11a, 11b, and 11g—so you can connect to any existing Wi-Fi wireless network. This flexibility lets you stay connected, no matter what wireless environment you're in. And Wi-Fi certification helps ensure interoperability with Wi-Fi-certified products from other vendors.

Secure

3Com® offers one of the most robust suites of standards-based security on the market today. To protect against unwanted network access, the PC Card supports the next generation wireless security standard—Wi-Fi Protected Access (WPA), 802.1x authentication, and EAP-TLS, PEAP, and EAP-TTLS authentication protocols. To protect wireless data, the PC Card supports the MD5 algorithm and

128-bit AES (Advanced Encryption Standard) encryption and WEP (Wireless Equivalent Privacy) RC4 40/60-bit, 128-bit and 154-bit shared-key encryption.

Performance and Reliability

Notebook users can access network resources, the Internet, and e-mail at speeds up to 104 Mbps in turbo mode*, ideal for multimedia applications. The PC Card also offers a host of features that ensure reliable wireless connections, excellent speeds, and seamless roaming.

Easy to Set Up and Use

Setup and operation are extraordinarily easy, making this card an intelligent choice for busy mobile users. You can create profiles with specific wireless LAN settings for each place you travel—just click the proper profile and you are configured for connection. And 3Com's patented XJACK® extends for excellent reception then tucks safely away for traveling.

Product Features

Compatibility

Multiple standards support	Provides universal, complete access to IEEE 802.11a, 802.11b, and 802.11g wireless networks.
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Security

IEEE 802.1x Network Access Control and EAP authentication	Supports the latest, most effective authentication techniques and simplifies management.
Advanced AES and WEP encryption	Help keep wireless transmissions private.

Performance and Reliability

High Speed	Supports speeds up to 54 Mbps on 802.11a or 11g networks and speeds up to 108 Mbps in turbo mode.
Autonomous Load Balancing (ALB)	Maximizes WLAN performance by connecting to the access point with the fastest throughput.
Advanced Power Management Options	Extends the battery life of a notebook PC through a variety of power management settings.
Dynamic rate shifting	Automatically matches the best connection speed in response to changing traffic and environmental conditions.

Easy to Use

XJACK antenna	3Com-patented design extends for excellent wireless LAN performance and retracts for safe transport, no need to remove the PC Card from the notebook.
3Com Wireless LAN Manager	Creates profiles for each place users travel. Also displays connection status and has simple-to-use diagnostic tools.

*104 Mbps turbo mode requires the use of either the 3Com Wireless LAN Access Point 8500 or the Access Point 8700.

Specifications

Standards Conformance

Wi-Fi
IEEE 802.11a
IEEE 802.11b
IEEE 802.11g

System Requirements

Notebook PC with an available Type II or III 32-bit or PC Card slot (3.3V)

Notebook PC must be running Windows XP/ 2000/98 SE/ME

Computer slot type

Type II 32-bit PC Card (3.3 V)

Drivers/Supported Operating Systems

NDIS 5: 2000, 98 SE, ME
NDIS 5.1: Windows XP

Receive Sensitivity

802.11a

54 Mbps – -70 dBm
48 Mbps – -71 dBm
36 Mbps – -78 dBm
24 Mbps – -81 dBm
18 Mbps – -83 dBm
12 Mbps – -85 dBm
9 Mbps – -86 dBm
6 Mbps – -87 dBm

802.11g

54 Mbps – -69 dBm
48 Mbps – -70 dBm
36 Mbps – -74 dBm
24 Mbps – -80 dBm
18 Mbps – -82 dBm
12 Mbps – -84 dBm
9 Mbps – -86 dBm
6 Mbps – -87 dBm

802.11b

11 Mbps – -86 dBm
5.5 Mbps – -88 dBm
2 Mbps – -91 dBm
1 Mbps – -93 dBm

Transmit Power

802.11b/g: 17 dBm
802.11a: 16 dBm

Installation, Configuration and Management

3Com Wireless LAN Manager, pre-set defaults

LED Indicators

Link; Activity

Dimensions

With extended antenna:
11.3 cm (4.4 in) x 5.4 cm (2.1 in)
x 0.5 cm (0.2 in)

With retracted antenna:
8.6 cm (3.4 in) x 5.4 cm (2.1 in)
x 0.5 cm (0.2 in)

Operating Voltage

3.0V—3.6V

Data Rates Supported

54, 48, 36, 24, 18, 12, 9, and
6 Mbps (802.11a/g)
11, 5.5, 2, and 1 Mbps (802.11b)

Frequency Bands

2.4–2.4835 GHz (802.11b/g)
5.150—5.825 GHz (802.11a)

Modulation Technique

DSSS (Direct Sequence Spread Spectrum)

Media Access Protocol

CSMA/CA

Security

WPA, AES 128-bit encryption, 40/64-bit, 128-bit, and 154-bit WEP encryption

802.1x authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, MD5

Environmental Range

Operating temperature:
0° to 50°C (32° to 122°F)

Regulatory/Agency Approvals

Safety: UL/CSA 60950, EN/IEC 60950

Radio: FCC Part 15.247 and 15.407, RSS-210, EN 300 328-2, draft EN 301 893

EMC: FCC Part 15 Subpart B, EN 301 489-17

SAR: FCC OET Bulletin 65, RSS-102, EN 50371

Package Contents

- PC Card
- Quick start guide
- CD-ROM
- PC Card drivers
- Installation and diagnostics software
- User Guide

Warranty

3-year hardware warranty

Ordering Information

Product Name	Region	Order Number
3Com 11a/b/g Wireless PC Card with XJACK Antenna	North America, South America, and Europe	3CRPAG175
3Com 11a/b/g Wireless PC Card with XJACK Antenna	APR	3CRPAG175-AP

The 3Com 11a/b/g Wireless PC Card with XJACK Antenna can be used with these 3Com products:

3Com Wireless Access Point 8200	3CRWE820096A
3Com Wireless Access Point 8500	3CRWE850075A
3Com Wireless Access Point 8700	3CRWE870075A
3Com Wireless LAN Workgroup Bridge	3CWE83096A

Note: In addition, the PC card can be used with any 3Com or 3Com OfficeConnect® 802.11a, 802.11b, or 802.11g products. Check out www.3com.com for a listing of all 3Com wireless products.



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To learn more about 3Com solutions, visit www.3com.com. 3Com is publicly traded on NASDAQ under the symbol COMS.

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