



3Com® OfficeConnect® Wireless 54 Mbps 11g Access Point

DATA SHEET

**Compact, streamlined
and versatile with
wireless speeds up
to 108 Mbps—easy
to install**

OVERVIEW

The 3Com® OfficeConnect® Wireless 54 Mbps 11g Access Point offers high-speed, reliable wireless networking at speeds of up to 108 Mbps (when used with 108 Mbps-compatible devices) and the latest advanced security features with 128-bit WPA/WPA2 encryption. Compact and streamlined, this access point comes in a versatile form factor and ships with a custom cradle that can be used to mount it in multiple ways on a desktop or conveniently on a wall. This access point offers the following operating modes:

- › Access Point: Provides wireless connectivity between wireless client adapters and the access point.
- › Client: Non-Wi-Fi-equipped PC uses the unit to connect to a remote access point wirelessly.
- › Point-to-Point Bridge: Links two LAN segments connected by two units.
- › Repeater Mode: Repeats the signals from one remote access point to another, increasing wireless range.

KEY BENEFITS

PROVIDES HIGH PERFORMANCE AND WIDE COVERAGE

Delivering high-speed IEEE 802.11g wireless connectivity, this wireless access point enables users to roam about the office accessing the internet and network resources at speeds of up to 108 Mbps and distances of up to 100 meters (328 feet)*, ideal for high-bandwidth applications. Performance-boosting features such as packet-bursting, compression and concatenation increase the effective transmission speed without user intervention.

DELIVERS COMPATIBILITY

Supporting both IEEE 802.11b and 802.11g wireless devices, this access point preserves your existing wireless network investment. Wi-Fi certification helps ensure interoperability with certified products from other vendors. Furthermore this access point supports Wireless Multi-Media (WMM) and the Wireless Distribution System (WDS) and is RoHS-compliant, to meet European certifications.



*Range depends on physical conditions, building construction, electrical devices in the area and other environmental factors.

KEY BENEFITS (CONTINUED)

SUPPORTS LATEST SECURITY STANDARDS

To protect wireless connections, this product supports the latest advanced security features with 128-bit WPA/WPA2 with TKIP/AES encryption for maximum security, along with 40-/60- and 128-bit WEP encryption for legacy clients.

SUPPLIES ECONOMICAL OPTION

Wireless networks can be a viable alternative to wired expansions and an attractive solution for home and branch offices, remote sites and classrooms. With no need to drill holes or run Ethernet cabling, it's also cost-effective for temporary networks.

GIVES RELIABLE CONNECTIONS

Dynamic rate shifting automatically matches the best connection speed in response to physical and traffic conditions so wireless connections stay reliable. Clear Channel Select enables the access point to scan the spectrum and select the least busy channel.

INSTALLS SIMPLY AND EASILY

Easy to setup and operate, this wireless access point is an intelligent choice for first-time users and small offices; typically no manual configuration is required. Simple-to-use web-based graphical user interface (GUI) lets you configure and manage network devices from anywhere.

OFFERS SUPERIOR WARRANTY

This product is backed by 3Com's market-leading three year hardware warranty with next business day replacement.

INTEROPERABLE 54 AND 108 MBPS SOLUTIONS

- › **3CRGPC10075** - 3Com OfficeConnect Wireless 54 Mbps 11g PC Card
- › **3CRUSB20075** - 3Com OfficeConnect Wireless 108 Mbps 11g USB Adapter
- › **3CRUSB10075** - 3Com OfficeConnect Wireless 54 Mbps 11g USB Compact Adapter
- › **3CRDAG675B** - 3Com Wireless 11a/b/g PCI Adapter
- › **3CRXJK10075** - 3Com OfficeConnect Wireless 108 Mbps 11g XJACK® PC Card
- › **3CRPAG175B** - 3Com Wireless 11a/b/g PC Card with XJACK Antenna

FEATURES AND BENEFITS

High Speed Wireless Connectivity

High-speed access, wide coverage	IEEE 802.11g standard supports speeds of up to 108 Mbps at distances of up to 100 meters (328 feet)*
Backward-compatible with 11b users	Supports high-speeds while protecting existing investments.
Packet-bursting	Increases throughput by sending more frames in a given time period; benefits 11b and 11g users.
Wi-Fi Certified	Helps ensure interoperability with Wi-Fi CERTIFIED products from other vendors. Supports Wi-Fi Multi-Media (WMM), Wi-Fi Protected Access (WPA/WPA2).

Robust Security

WPA/WPA2 (Wi-Fi Protected Access) WEP (Wired Equivalent Privacy)	Supports advanced 128-bit WPA/WPA2 encryption for 11g networks, and 40-/64- and 128-bit WEP encryption for legacy wireless clients.
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Easy To Use

Simple installation	No need to drill holes or run Ethernet cabling to set-up your network.
Access Point Discovery program	Automatically identifies network access points for easy set up and configuration.
Save and restore feature	Copies settings to additional network devices simplifying and speeding set-up and to keep track of current configurations.
Web-based administration	Familiar browser interface lets administrators configure and manage access points anywhere on the network.

Reliable

Dynamic rate shifting	Automatically matches the best connection speed in response to changing traffic and environmental conditions.
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Support Service

Wireless LAN Site Survey, 3Com Express Maintenance	Refer to www.3com.com/services for details.
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SPECIFICATIONS

PHYSICAL PORTS

One 10BASE-T/100BASE-TX port;
one power port

USERS SUPPORTED

Up to 30 simultaneous users

WIRELESS DATA RATES

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

FREQUENCY BAND

2.4-2.4835 GHz

WIRELESS MEDIUM

DSSS and OFDM

MEDIA ACCESS PROTOCOL

CSMA/CA

WIRELESS TRANSMIT POWER

IEEE 802.11g: 16 dBm
IEEE 802.11b: 18 dBm

WIRELESS OPERATING RANGE

100 meters (328 feet)*

RECEIVER SENSITIVITY

IEEE 802.11g
54 Mbps: ≤-70 dBm
48 Mbps: ≤-73 dBm
36 Mbps: ≤-75 dBm
24 Mbps: ≤-78 dBm
18 Mbps: ≤-80 dBm
12 Mbps: ≤-82 dBm
9 Mbps: ≤-84 dBm
6 Mbps: ≤-86 dBm
IEEE 802.11B
11 Mbps: ≤-87 dBm
5.5 Mbps: ≤-89 dBm
2 Mbps: ≤-90 dBm
1 Mbps: ≤-92 dBm



PERFORMANCE FEATURES

Clear Channel Select, packet bursting,
dynamic rate shifting

SECURITY

128-bit WPA/WPA2 with TKIP/AES
encryption (access point mode)
40-/64-bit and 128-bit WEP shared-
key encryption (all modes)

LED INDICATORS

Power; alert/diagnostics
LAN port status: Link, Activity
WLAN port status: Activity

DIMENSIONS

Height: 11 cm (4.3 in)
Width: 15 cm (5.9 in)
Depth: 4.5 cm (1.8 in)
Weight: 240 g (0.5 lb)

POWER

Operating input voltage: 10–30V
Operating frequency: 47–63Hz
Power consumption, max: 3.6W
Power transmit output, max:
18dBm (US-FCC); 17.5dBm (ETSI)
Supplied with external OfficeConnect
power adapter

REGULATORY/AGENCY APPROVALS

Safety: EN 60950, IEC 60950
Emissions: EN 55022 Class B,
EN 55024, EN 300 328
Environmental: EN 60068 (TEC 68),
EN 301 489-17
FCC Part 15, Subpart B Sections 15.107
and 15.109, Subpart C Sections
15.207, 15.209 and 15.247
ICES-003
Industry Canada RSS-210, RSS-Gen

STANDARDS CONFORMANCE

Wi-Fi CERTIFIED, WPA2 Personal
and WPA2 Enterprise, IEEE 802.11b,
IEEE 802.11g

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ENVIRONMENTAL RANGE

Operating temperature:
0° to 40°C (32° to 105°F)
Storage temperature:
-40° to 70°C (-40° to 158°F)
Operating humidity:
0 to 90% non-condensing

CONFIGURATION AND MANAGEMENT

Browser-based access point
administration
Wireless installation and device
discovery wizards
Preset defaults
Save and restore configuration file

PACKAGE CONTENTS

OfficeConnect Wireless 54 Mbps 11g
Access Point
Cradle stand
Removable antenna (R-SMA connector)
OfficeConnect power supply
Install Guide
Installation CD
One Ethernet cable
Four rubber feet
Warranty sheet

MINIMUM SYSTEM REQUIREMENTS

2.4 GHz wireless adapter or Ethernet
adapter and cable for each computer
Operating system (Windows, Mac,
Linux, etc.) that supports an Ethernet
connection with an IP stack
Installation CD requires Windows
2000, min.

WARRANTY AND OTHER SERVICES

Three Year Limited Hardware Warranty
Limited Software Warranty for 90 days
Advance Hardware Replacement with
Next Business Day shipment in most
regions
90 days of telephone technical support
Refer to www.3com.com/warranty
for details.

ORDERING INFORMATION

PRODUCT DESCRIPTION

3Com OfficeConnect Wireless
54 Mbps 11g Access Point

MODEL NUMBER

WL-524

3COM SKU

3CRWE454G75

Visit www.3com.com for more information about 3Com secure converged network solutions.

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