

3COM® WIRELESS 11G CABLE/DSL ROUTER

High-speed wireless router with robust security and eXtended Range technology



3Com Wireless 11g Cable/DSL Router

OVERVIEW

The 3Com® Wireless 11g Cable/DSL Router provides robust routing and security features allowing up to 253 wired and wireless users to share a single broadband connection.

With wireless data speeds of up to 54 Mbps, this cable/DSL router is able to handle high-bandwidth applications confidently. eXtended Range (XR) technology is designed to provide broader wireless LAN coverage to help eliminate indoor dead spots and give line-of-sight range that is 2x to 3x that of traditional solutions.

Advanced security features include 128-bit WPA™/WPA2™ with TKIP/AES wireless encryption, a stateful packet inspection firewall, hacker pattern detection, URL filtering, and IP and MAC address filtering. Easy to set up and use, this product is backed by a market-leading three year hardware warranty.

KEY BENEFITS

ECONOMICAL SHARED INTERNET ACCESS FOR WIRED AND WIRELESS USERS

The 3Com Wireless 11g Cable/DSL Router has a built-in four-port 10/100 Ethernet LAN switch, which enables up to 253 total (32 wireless) users to securely share a single cable or DSL Internet connection, reducing broadband expenses.

HIGH-SPEED WIRELESS CONNECTIVITY

Delivering wireless speeds of up to 54 Mbps, this router easily handles large data transfers and Internet downloads, including those from multimedia applications. The 3Com Wireless 11g Cable/DSL Router is IEEE 802.11g-compliant, and is backward-compatible with 802.11b wireless devices, preserving existing network investments. It is Wi-Fi CERTIFIED™ and interoperates with other certified Wi-Fi® products.

EXTENDED RANGE TECHNOLOGY

The 3Com Wireless 11g Cable/DSL Router comes with an advanced chipset with a new baseband architecture that enables long-range connections. This eXtended Range (XR) technology can provide single access point coverage in home networking environments, helps eliminate the dead spots in corporate wireless LANs, and provides outdoor coverage of up to two times the distance of competing WLAN solutions.

MULTIPLE SECURITY FEATURES

Advanced wireless security and multiple firewall features offer higher levels of protection for the network. To help shield wireless connections, this router provides 128-bit WPA/WPA2 with TKIP/AES encryption for maximum security, and 40-/64- and 128-bit WEP encryption for legacy clients.

URL filtering, a Stateful Packet Inspection (SPI) firewall with hacker pattern detection, traffic metering and other security features help protect the entire network from attacks and other Internet security risks.



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KEY BENEFITS (CONTINUED)

ROBUST ROUTING FEATURES

IP (RIP 1 and 2) and static routing allow this router to be used in multi-network environments. Domain Name Service (DNS) enables users connecting to the Internet with dynamic IP addresses to use network applications such as Web or FTP servers that normally require static IP addresses.

RELIABLE AND SIMPLE TO USE

Designed to meet 3Com's proven standards of quality, reliability is assured and supported by a three-year hardware warranty. A browser-based user interface and simple setup wizards ease installation, configuration and administration.

INTEROPERABLE 54 MBPS SOLUTIONS

3Com offers a wide variety of compatible wireless devices. To utilize the benefit of the eXtended Range feature, choose any of the below devices noted with "XR":

- › 3Com OfficeConnect® Wireless 54Mbps 11g PC Card, 3CRGPC10075
- › OfficeConnect Wireless 108Mbps 11g XJACK® PC Card (XR), 3CRXJK10075
- › 3Com 11a/b/g Wireless PCI Adapter (XR), 3CRDAG675B
- › 3Com 11a/b/g Wireless PC Card with XJACK Antenna (XR), 3CRPAG175B
- › 3Com Wireless 11g PCI Adapter, 3CRPCIG75

FEATURES AND BENEFITS

SHARED INTERNET ACCESS

Wired and wireless user support	Enables up to 253 total (32 wireless) users to share a single cable or DSL connection, making the most of your broadband service
Flexible broadband support	Connects to either cable or DSL modems for configuration flexibility

HIGH-SPEED WIRELESS CONNECTIVITY

802.11g 54 Mbps wireless connections	Delivers connections more than four times faster than 802.11b
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
Wi-Fi Multimedia™ (WMM®)	Improves the user experience for audio, video and voice applications through Wi-Fi prioritization, optimizing their performance

ROBUST SECURITY

WPA/WPA2 (Wi-Fi Protected Access) and WEP (Wired Equivalent Privacy)	Supports advanced 128-bit WPA/WPA2 encryption for 11g networks, 40-/64- and 128-bit WEP encryption for legacy wireless clients
Multi-level wireless security	Provides additional wireless security with SSID Broadcast Disable, and MAC filtering
Firewall	Full SPI firewall, access control rules, DoS protection and other features helps protect your network from the security risks of always-on broadband connections

FLEXIBLE ROUTING

IP (RIP 1 and 2) and static routing	Allows the router to be used in multi-network environments
Wi-Fi Distribution System (WDS)	Easily expands network coverage using compatible WDS-enabled APs
Dynamic Domain Name Service (DNS)	Enables Internet connections with dynamic IP addresses to network applications such as Web or FTP servers that normally require static IP addresses (requires subscription with Dynamic DNS providers)

EASE OF USE

Set-up wizards, pre-set defaults, and intuitive browser interface	Makes set up and configuration easy
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SPECIFICATIONS

MINIMUM SYSTEM REQUIREMENTS

Operating system that supports an Ethernet connection with an IP stack

Computer with an Ethernet 10BASE-T or 10/100 interface configured for network communication
IEEE 802.11g or 802.11b adapter cards for wireless access
An active cable or DSL broadband connection
Installation CD requires Windows 95 or later

USERS SUPPORTED*

Up to 253 total simultaneous users
32 wireless users; MAC filter 32 clients

PHYSICAL PORTS

LAN: 4 autosensing 10BASE-T/100BASE-TX ports
WAN: 1 autosensing 10BASE-T/100BASE-TX port

WIRELESS DATA RATES

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

FREQUENCY BAND

2.4-2.4835 GHz

WIRELESS MEDIUM

OFDM, CCK

MEDIA ACCESS PROTOCOL

CSMA/CA

WIRELESS TRANSMIT POWER

802.11g and 11b: 16dBm

WIRELESS OPERATING RANGE†

Indoor maximum: 400 feet
Outdoor maximum: 2,296 feet

PROTOCOL SET

Dynamic and static IP addressing, DHCP server
NAT/PAT (with TCP and UDP), PPPoE, PPTP, IP, PAP, CHAP, MS CHAP, IPCP, SNTP

ROUTING

RIP 1 and 2
Static routing

SECURITY

128-bit WPA/WPA2 with TKIP/AES wireless encryption
40-/64-bit and 128-bit WEP encryption
Allow/deny access control lists
URL or keyword filtering
SSID broadcast disable
MAC address filtering
NAT/PAT (with TCP and UDP)
Traffic metering

* Total number of concurrent users depends on speed of broadband connection and amount of traffic generated by each user.

† Wireless speed and performance depend on number of users, network and physical conditions, and other electronic devices in the area.

DIMENSIONS

Height: 3.2 cm (1.3 in)
Width: 12.0 cm (4.7 in)
Depth (with antenna): 14.0 cm (5.5 in)
Weight: 184g (0.4lb)

POWER

Supplied via power supply
Operating output: 9V, 1A
Maximum power consumption: 9W

CONFIGURATION AND MANAGEMENT

Browser-based administration
Preset defaults
Remote management
Save and restore configuration files

PACKAGE CONTENTS

3Com Wireless 11g Cable/DSL Router
One 2dBi detachable antenna
Power supply
Install Guide
CD ROM containing User Guide
One straight-through category 5 UTP patch cable

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	MODEL	3COM SKU [†]
3Com Wireless 11g Cable/DSL Router	WL-5502	3CRWER101E-75 3CRWER101A-75 3CRWER101U-75

[†]Please contact your local reseller for correct regional variant.

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

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