

# 3COM® SWITCH 4200 FAMILY

Highly affordable, entry-level managed  
10/100 Mbps connectivity for medium-sized  
businesses and branch office networks



from top: 3Com Switch 4200 28-Port, Switch 4200  
26-Port, Switch 4200 50-Port

## OVERVIEW

The 3Com® Switch 4200 family provides wirespeed 10/100 stackable switching with easy-to-use features perfect for cost-conscious medium-sized businesses needing basic access and distribution.

These fixed-configuration switches support enterprise-class QoS, security and stackable scalability with single IP address management. All models come with two copper 10/100/1000 ports for built-in stacking or downlink ports; one model also has two additional SFP mini-GBIC slots for added copper or fiber connection flexibility.

## KEY BENEFITS

### DELIVERS AFFORDABLE ENTERPRISE-CLASS FEATURES

3Com delivers superior business value by offering enterprise-class solutions without the complexity. These stackable switches provide wirespeed performance, QoS, VLANs, security and resiliency features.

#### Easy setup Minimizes installation expense

With a fixed configuration format, the Switch 4200 is fully plug-and-play—designed to operate out-of-the-box with the minimum amount of user configuration. Auto-negotiation and auto-MDIX detection make it simple to install while automatic IP allows the switch to configure its own IP settings by negotiating with industry-standard DHCP or BOOTP servers.

#### Provides security and resiliency

The Switch 4200 provides IEEE 802.1X Network Login and RADIUS Authenticated Device Access (RADA) security, and resiliency features such as Rapid Spanning Tree Protocol and IEEE 802.3ad Link Aggregation (LACP) for Gigabit ports.

### ENHANCES MANAGEMENT AND CONTROL

The Switch 4200 family is easy to use and manage, designed to increase business productivity by reliably supporting business applications. Stack together up to four devices for easy administration, with single IP management. 3Com network management software offers comprehensive support, including 3Com Network Director for an enterprise standalone solution or 3Com Network Supervisor for smaller networks.

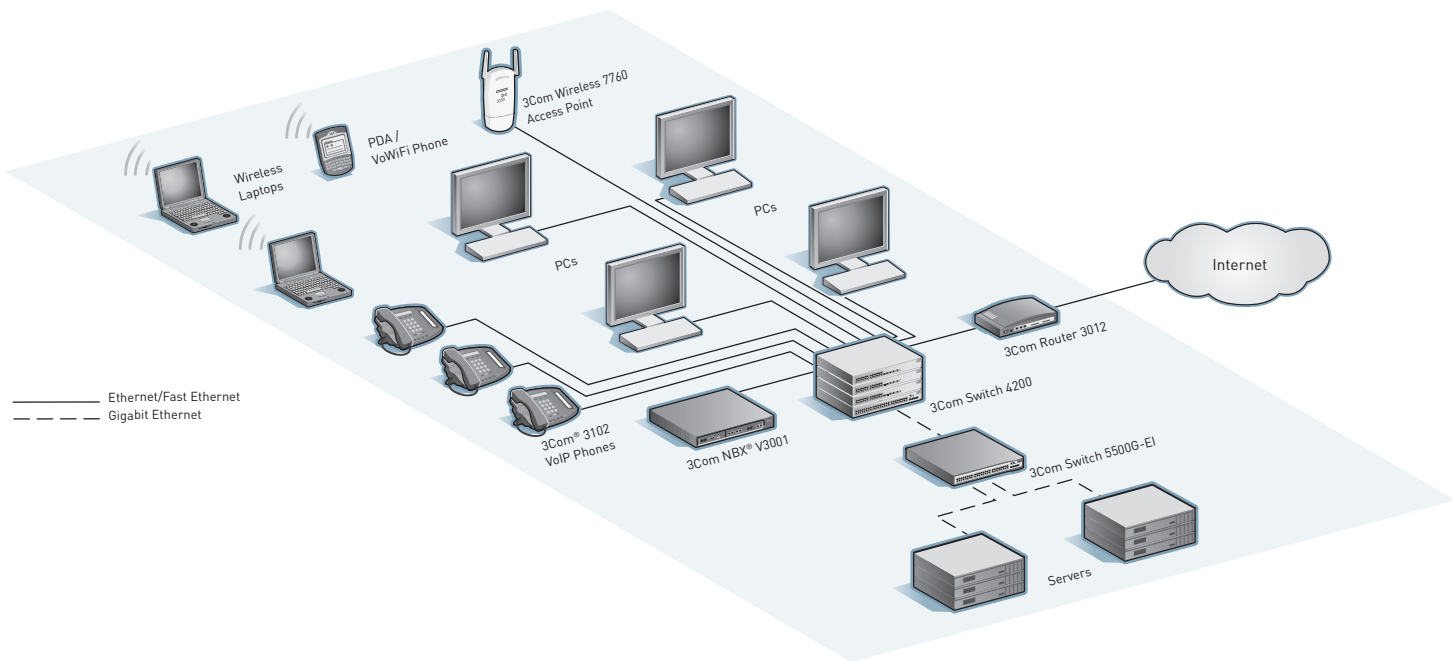
### SUPPORTED BY LIMITED LIFETIME HARDWARE WARRANTY

3Com gives a Limited Lifetime Hardware Warranty on the Switch 4200 Family. Also provided is Advanced Hardware Replacement, with next business day shipment available in most regions, and telephone support



3COM

## SMALL-TO-MEDIUM LAN CONFIGURATION SUPPORTED BY THE SWITCH 4200



Warranty	3Com Limited Lifetime Warranty. For as long as the original end user owns the product, or for five years after 3Com discontinues sale of the product, whichever occurs first.
Hardware coverage	Covers the complete unit including power supply.
In-warranty hardware replacement*	Advanced Hardware Replacement of hardware for the duration of the warranty. In the US 48 contiguous states this is same-day ship with next business day delivery when call received before noon Pacific time. For Canada, Alaska and Hawaii, this is same-day ship when call received before noon Pacific time. In Western Europe, this is same-day ship when call received before noon Greenwich time. For the rest of the world, it is next-business-day ship. Actual delivery times may vary depending on customer location. Reasonable commercial efforts apply.
Software coverage	90 days for media replacement.
Software updates*	Access to releases with incremental software features and bug fixes. For the Switch 4200, updates are all releases within the licensed 3Com OS software level.
Telephone support*	Technical support via phone for 90 days.
Online Knowledgebase support*	Access to online troubleshooting tool for the duration of the warranty.

\* These services are not included as part of the Warranty and 3Com reserves the right to modify or cancel this offering at any time, without advance notice. This offering is not available where prohibited by law. Services are effective at warranty start date, and are enabled with product registration. Customers receive a user ID with eSupport registration.

## SERVICE AND SUPPORT

3Com Global Services offers the resources and talents of a major corporation plus more than two decades of experience in resolving network challenges and delivering business benefits to enterprises around the world.

Global support with a personalized focus in the local language helps drive productivity and minimize expenses. Because 3Com understands both the technology and the business, we're the partner you need to maintain your competitive edge and remain strong.

## Suggested Service, Support and Training Offerings

Network Health Check	An activity-auditing service focused on improving network performance and productivity Includes traffic monitoring, utilization analysis, problem identification, and asset deployment recommendations Extensive report provides blueprint for action
Network Installation and Implementation Services	Experts set-up and configure equipment and integrate technologies to maximize functionality and minimize business disruption For large and complex sites, implementation services include personalized configuration, project management, extended testing and coaching on network administration
Project Management	Provides extra focus and resources that special projects demand 3Com engineers manage entire process from initial specifications to post-project review Using structured methodology, requirements are identified, projects planned and progress of implementation activities tracked
3Com Guardian <sup>SM</sup> Maintenance Service	This service provides comprehensive on-site support and includes advance hardware replacement, telephone technical support and software upgrades
3Com Express <sup>SM</sup> Maintenance Service	This service provides speedy access to 3Com shipment of advance hardware replacements, software upgrades and telephone support
3Com University	Self-paced and instructor-led technology and product courses, plus certification programs

## SPECIFICATIONS

All information in this section is relevant to all members of the 3Com Switch 4200 family, unless otherwise stated.

### CONNECTORS

#### 26-port

24 auto-negotiating 10BASE-T/100BASE-TX ports configured as auto-MDI/MDIX

2 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX

#### 28-port

24 auto-negotiating 10BASE-T/100BASE-TX ports configured as auto-MDI/MDIX

2 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX

2 Gigabit SFP ports

#### 50-port

48 auto-negotiating 10BASE-T/100BASE-TX ports configured as auto-MDI/MDIX

2 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX

### PERFORMANCE

#### 26-port

8.8 Gbps switching capacity (max.), 6.6 Mpps forwarding rate (max.)

#### 28-port

12.8 Gbps switching capacity (max.), 9.5 Mpps forwarding rate (max.)

#### 50-port

13.6 Gbps switching capacity, (max.), 10.1 Mpps forwarding rate (max.)

#### All models

Wirespeed performance across ports in full mesh configuration

Store-and-forward switching; latency < 10 µs

### LAYER 2 SWITCHING

8,192 MAC addresses in address table

128 static MAC addresses (in addition to default address)

60 Port-based VLANs (IEEE 802.1Q)

IEEE 802.3ad Link Aggregation Control Protocol (LACP) for Gigabit ports only; automated and manual aggregation

Per-switch trunk groups:

- 26-port: 1 group with 2 ports
- 28-port: 2 groups with 2 ports each
- 50-port: 1 group with 2 ports

Auto-negotiation of port speed and duplex

IEEE 802.3x full-duplex flow control

Back pressure flow control for half duplex

Broadcast storm suppression

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

Bridge Protocol Data Unit (BPDU) protection

Internet Group Management Protocol (IGMP) snooping on Layer 2 interfaces

Filtering for 128 multicast groups

### CONVERGENCE

2 hardware queues per port

Strict priority queuing

IEEE 802.1p Class of Service/Quality of Service (CoS/QoS) on egress

### SECURITY

IEEE 802.1X Network login user authentication:

- EAP over LAN (EAPoL) transport with EAP-MD5, PAP, CHAP, PEAP and EAP-TLS authentication
- Multiple users per port

RADIUS network server authentication

Automatic VLAN assignment via RADIUS server

Wirespeed packet filtering in hardware

RADIUS Authenticated Device Access (RADA): authenticate devices based on MAC address against RADIUS server and assign VLAN ID

Port-based MAC address Disconnect Unknown Device (DUD)

### STACKING

Single IP address and management interfaces for centralized control

Up to 4 devices per stack, or 192 10/100 front panel ports

### MANAGEMENT

CLI via console or Telnet

Embedded web management interface

System configuration with SNMP v1 and 2c

Remote Monitoring (RMON) groups statistics, history, alarm and events

Configuration file for backup and restore

System file transfer mechanisms: FTP, Trivial FTP (TFTP)

3Com management applications:

- 3Com Network Supervisor for basic, turn-key network management for mid-market businesses
- 3Com Network Director for complete, turn-key network management for the enterprise
- 3Com Intelligent Management Center, Enterprise Edition for comprehensive management with the rich functionality required to meet the needs of advanced Enterprise networks
- 3Com Enterprise Management Suite for flexible, extensible management in advanced enterprise IT environments

### DIMENSIONS

Height: 43.6 mm (1.7 in or 1 RU)

Width: 440.0 mm (17.3 in)

Depth: 274.0 mm (10.8 in)

Weight:

- 24-port– 2.3 kg (5.0 lb)
- 26-port– 2.4 kg (5.2 lb)
- 50-port– 2.3 kg (5.0 lb)

## SPECIFICATIONS (CONTINUED)

### POWER SUPPLY

Input voltage: 100-240 VAC, 50/60 Hz

Current rating: 1.0A maximum

### ENVIRONMENTAL REQUIREMENTS

Operating temperature: 0° to 40°C (32° to 104°F)

Storage temperature: -40° to 70°C (-40° to 158°F)

Humidity (operating and storage): 10% to 90% non-condensing

Standard: EN 60068 (IEC 68)

### RELIABILITY

(MTBF @ 25°C)

26-port: 63 years (559,000 hours)

28-port: 51 years (451,000 hours)

50-port: 55 years (448,000 hours)

### OPERATIONAL NOISE

Quiet operation; fan-less design

### IEEE STANDARDS SUPPORTED

IEEE 802.1D Spanning Tree Protocol

IEEE 802.1p QoS

IEEE 802.1Q VLANs / VLAN tagging

IEEE 802.1w Rapid Spanning Tree

IEEE 802.1X Network Login Security

IEEE 802.3 Ethernet

IEEE 802.3ab (1000BASE-T)

IEEE 802.3ad Link Aggregation (unit wide)

IEEE 802.3i 10BASE-T

IEEE 802.3u Fast Ethernet

IEEE 802.3x Flow control

IEEE 802.3z Gigabit Ethernet 1000BASE-X

### IETF STANDARDS

RFC 791 IP

RFC 792 ICMP Query, support as defined in RFC 1812

RFC 793 TCP

RFC 826 Address Resolution Protocol (ARP)

RFC 854 Telnet

RFC 1350 Remote software upgrade TFTP

RFC 1542 BootP, DHCP

RFC 2616 HTTP compatibility

### Management, including MIBs Supported

RFC 1157 SNMP v1

RFC 1213 MIB II

RFC 1215 MIB Monitoring Trap Registration

RFC 1493 Bridge MIB

RFC 1659 RS232 MIB

RFC 1757 RMON I

RFC 2021 RMON II Probe Config

RFC 2233 Interfaces MIB

RFC 2618 MIB BulkConf-RADIUS Servers, BulkConf-Port Security

RFC 2620 (RADIUS Accounting Client MIB)

RFC 2665 EtherLike MIB

RFC 2668 MAU MIB

RFC 2674 Bridge MIB Extensions

### EMISSIONS / AGENCY APPROVALS

EN 55022 Class A

FCC Part 15 Subpart B Class A

ICES-003 Class A

VCCI Class A

### IMMUNITY

EN 55024

### SAFETY AGENCY CERTIFICATIONS

UL 60950-1

EN 60950-1

CSA 2.22 # 60950

IEC 60950-1

EU RoHS Compliant

### WARRANTY AND OTHER SERVICES

Limited Lifetime Hardware Warranty, including fans and power supply

Limited Software Warranty for 90 days

Advance Hardware Replacement with Next Business Day shipment in most regions

Limited Lifetime software updates

90 days of telephone technical support

Refer to [www.3com.com/warranty](http://www.3com.com/warranty) for details.

## ORDERING INFORMATION

### PRODUCT DESCRIPTION

3Com Switch 4200 26-Port	3C17300A
3Com Switch 4200 28-Port	3C17304A
3Com Switch 4200 50-Port	3C17302A

### Gigabit SFP Transceivers

3Com 1000BASE-SX SFP	3CSFP91
3Com 1000BASE-LX SFP	3CSFP92
3Com 1000BASE-T SFP	3CSFP93
3Com 1000BASE-LH SFP	3CSFP97

### 3Com Global Services

3Com Network Health Check, Installation Services, and Express Maintenance	<a href="http://www.3com.com/services_quote">www.3com.com/services_quote</a>
3Com University Courses	<a href="http://www.3com.com/3comu">www.3com.com/3comu</a>

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400770-014 03/09

