

3Com® SuperStack® 3 Switch 4200 Family

DATA SHEET



Stackable 10/100 Layer 2 switches

Scalable to 192 users

1000BASE-T connectivity for uplinks

Key Benefits

Affordability

Layer 2 10/100 LAN switching solution delivers versatile wirespeed stackable performance in an affordable, flexible package.

Flexibility

Built-in copper Gigabit and GBIC ports provide easy connection to all Gigabit media for added flexibility and stacking.

Resiliency

Supports Rapid Spanning Tree Protocol, Link Aggregation (for Gigabit ports), and optional redundant power for non-stop operation.

Performance

Forwarding rates up to 6.6 million pps (3Com* SuperStack* 3 Switch 4226T), 9.5 million pps (SuperStack 3 Switch 4228G), or 10.1 million pps (SuperStack 3 Switch 4250T).

Plug-and-play Configuration

Automatic IP assignment and cable detection as well as auto-negotiation gets the SuperStack 3 Switch 4200 up and running quickly for easy out-of-the-box operation.

Overview

The SuperStack 3 Switch 4200 family offers fixed-configuration 10/100 LAN switches for networks requiring industry-leading switching technology. It combines high performance with comprehensive functionality and plug-and-play installation—all at a reasonable price.

These switches deliver standard Layer 2 10/100 features, as well as wirespeed performance and built-in stacking capability. The SuperStack 3 Switch 4200 family operate straight out of the box, allowing users to be easily added to the network in minutes.

Scalable

Up to four switches can be stacked and managed as one unit with a single IP address. No additional hardware required to stack units.

Powerful Management

Comprehensive support within the 3Com management application software suite, including the standalone package 3Com Network Director or 3Com Network Administrator for HP OpenView-based management. 3Com Network Supervisor may also be used in smaller networks.

Limited Lifetime Hardware Warranty

Limited Lifetime Hardware Replacement. See www.3com.com/warranty for details.

Service

3Com products are backed by 3Com Global Services and authorized partners with demonstrated expertise in network assessment, implementation, and maintenance. Ask about which 3Com Network Health Check, installation services, and maintenance service packages are available in your area.

Choose from 26-, 28-, or 50-port 10/100 models—each comes with two built-in copper Gigabit ports for downlinks or stacking. In addition, the 28-port model comes with two extra built-in GBIC ports, supporting all Gigabit media.

The family supports advanced resiliency features such as Rapid Spanning Tree Protocol, Link Aggregation (for Gigabit ports), and optional redundant power.

3COM® SUPERSTACK® 3 SWITCH 4200 FAMILY

Features

PERFORMANCE			
Switching Capacity:	SuperStack 3 Switch 4226T 8.8Gbps		
	SuperStack 3 Switch 4228G 12.8Gbps		
	SuperStack 3 Switch 4250T 13.6Gbps		
Forwarding rate:	SuperStack 3 Switch 4226T 6.6Mpps		
	SuperStack 3 Switch 4228G 9.5Mpps		
	SuperStack 3 Switch 4250T 10.1Mpps		
Store and forward switching:	Latency 2.7 microseconds		
LAYER 2 SWITCHING			
MAC Addresses	8K MAC addresses		
VLAN	60 VLANs (IEEE 802.1Q)		
Link Aggregation	Manual and LACP Link Aggregation (IEEE 802.3ad). Gigabit ports only		
Auto Negotiation	Auto-negotiation of port speed, duplex, and connection (MDI/MDIX)		
Traffic Control	IEEE 802.3x full-duplex flow control		
	Back pressure flow control for half-duplex		
	Supports Broadcast Storm Suppression		
Spanning Tree	IEEE 802.1D Spanning Tree Protocol (STP)		
3	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)		
	Backward-compatible with STP		
	Fast-start mode		
CONVERGENCE			
Priority Queues	Two hardware queues per port		
monty Quedes	Weighted Round Robin queuing		
Traffic Prioritization	Priority based on:		
name i nomization	• IEEE 802.1p Class of Service (CoS) VLAN priority		
	DSCP (DiffServ Code Point)		
	Default port priority		
	 Auto classification of 3Com NBX® telephony traffic 		
RESILIENCY			
	Support for 3Com Advanced Redundant Power Supply; provides backup power to the switch		
MANAGEMENT			
Device Management	Local management of switch passwords		
Device Management	Web-based management		
	Command line interface (CLI)		
	Serial (9-pin D-type connector)		
	Telnet		
	SNMP v1		
	3Com Management Applications		
	3Com Network Supervisor for basic, turn-key network management for small and		
	medium businesses		
	3Com Network Director for comprehensive, turn-key network management for the enterprise		
	3Com Network Administrator for comprehensive management under HP OpenView for Windows		
	3Com Enterprise Management Suite for flexible, extensible management in advanced		
	enterprise IT environments		
Software	TFTP agent: upload		
RMON	Four Groups: Statistics, History, Alarms, Events		
IP Address allocation	DHCP		
	BOOTP		
	Manual		
	Auto IP		

Specifications

All information in this section is relevant to all versions of the SuperStack 3 Switch 4200 unless stated otherwise.

Connectors

SuperStack 3 Switch 4226T:

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

Two auto-negotiating 10BASE-T/100BASE-

TX/1000BASE-T ports configured as auto MDI/MDIX

SuperStack 3 Switch 4250T:

48 auto-negotiating 10BASE-T/100BASE-TX ports

configured as auto MDI/MDIX

Two auto-negotiating 10BASE-T/100BASE-

TX/1000BASE-T ports configured as auto MDI/MDIX

SuperStack 3 Switch 4228G:

24 auto-negotiating 10BASE-T/100BASE-TX ports

configured as auto MDI/MDIX

Two auto-negotiating 10BASE-T/100BASE-

TX/1000BASE-T ports configured as auto MDI/MDIX

Two GBIC ports accommodating 1000BASE-SX, 1000BASE-LX, 1000BASE-T or 1000BASE-LH70

All these switches have:

Advanced Redundant Power System Type 2A

RS232 console port

Stacking

Up to four units high

Mix and match SuperStack 3 Switch 4226T (3C17300), Switch 4250T (3C17302), and Switch 4228G (3C17304)

Traffic Management

Two priority queues per port

IEEE 802.1p CoS

DiffServ

Performance

SuperStack 3 Switch 4226T:

8.8 Gbps switching capacity

6.6 million packets per second

Wirespeed performance

8,000 MAC addresses supported

SuperStack 3 Switch 4228G:

12.8 Gbps switching capacity

9.5 million packets per second

Wirespeed performance

8,000 MAC addresses supported

SuperStack 3 Switch 4250T: 13.6 Gbps switching capacity

10.1 million packets per second

Wirespeed performance

8,000 MAC addresses supported

Reliability

SuperStack 3 Switch 4226T:

MTBF @ 40°C: 53 years (465,000 hours)

SuperStack 3 Switch 4250T:

MTBF @ 40°C: 37 years (326,000 hours)

SuperStack 3 Switch 4228G:

MTBF @ 40°C: 38 years (329,000 hours)

Dimensions

Height: 43.6 mm (1.7 in or 1U)

Width: 440 mm (17.3 in)

Depth: 274 mm (10.8 in)

Weight:

SuperStack 3 Switch 4226T:

2.4 kg (5.3 lb)

SuperStack 3 Switch 4250T:

2.8 kg (6.2 lb)

SuperStack 3 Switch 4228G:

2.4 kg (5.3 lb)

Environmental Requirements

Operating temperature:

0° to 40°C (32° to 104°F)

Storage Temperature:

 -40° to $+70^{\circ}$ C (-40° to $+158^{\circ}$ F)

Operating Humidity:

10% to 90% relative humidity noncondensing

Standards: EN60068 (IEC68)

Safety Agency Certifications

UL90950, EN60950, CSA2.2 No. 60950, IEC 60950

EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, AS/NZS 3548 Class A,

CNS 13438 Class A

Immunity: EN55024 Heat Dissipation:

SuperStack 3 Switch 4226T:

40 W maximum (136 BTU/hr maximum)

SuperStack 3 Switch 4250T and Switch 4228G:

60 W maximum (205 BTU/hr maximum)

Power Supply

AC Line Frequency 50/60 Hz

Input Voltage 90-240 VAC

Current Rating:

2.3A maximum

Industry Standards Supported

Ethernet Protocols

IEEE 802.1D (STP)

IEEE 802.1p (CoS)

IEEE 802.1Q (VLANs)

IEEE 802.1w (RSTP)

IEEE 802.3i (10BASE-T)

IEEE 802.3ad (Link Aggregation) IEEE 802.3u (Fast Ethernet)

IEEE 802.3x (Flow Control)

IEEE 802.3z (Gigabit Ethernet)

Administration Protocols

RFC 768 (UDP)

RFC 791 (IP)

RFC 792 (ICMP)

RFC 793 (TCP)

RFC 826 (ARP)

RFC 854 (Telnet)

RFC1350 (TFTP)

RFC1542 (BOOTP, DHCP)

RFC 2616 (HTTP)

Management, including MIBs Supported

RFC 1157 (SNMP v1)

RFC 1213 (MIB II)

RFC 1215 (MIB II Traps)

RFC 1493 (Bridge MIB)

RFC 1659 (RS232 MIB)

RFC 1757 (RMON I)

RFC 2021 (RMON II Probe Config)

RFC 2233 (Interfaces MIB)

RFC 2665 (Pause control)

RFC 2668 (IEEE 802.3 MAU MIB)

RFC 2674 (VLAN MIB Extension)

Management

Web interface

Command line interface

SNMP compatibility

Management through 3Com management applications

- 3Com Network Supervisor
- 3Com Network Director
- 3Com Network Administrator
- 3Com Enterprise Management Suite

Warranty Limited Lifetime Hardware Warranty. See

www.3com.com/warranty for details.

Other Benefits

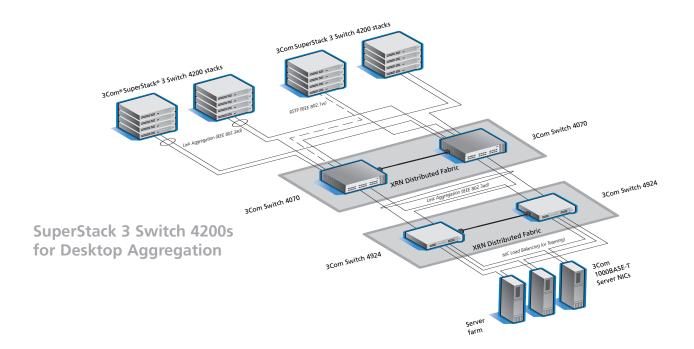
Other Service Benefits: Advance hardware replacement with same day shipment for North America and Western Europe. Next day shipment for rest of world. Calls must be received by published cut-off times. 90 days of telephone technical support. Limited software

updates. See www.3com.com/warranty for more detail. Register products at http://eSupport.3com.com/.

Americas:

http://www.3com.com/products/en_US/global_services/

http://emea.3com.com/globalservices



Ordering Information

PRODUCT DESCRIPTION		3COM SKU
3Com SuperStack 3 Switch 4226T 26-port 24-port 10/100 plus two 10/100/1000 ports	3C17300	
3Com SuperStack 3 Switch 4250T 50-port 48-port 10/100 plus two 10/100/1000 ports	3C17302	
3Com SuperStack 3 Switch 4228G 28-port 24-port 10/100 plus two 10/100/1000 ports and two GBIC ports (GBICs sold se	3C17304	
GBICs		
3Com SX GBIC		3CGBIC91
3Com LX GBIC		3CGBIC92
3Com 1000BASE-T GBIC		3CGBIC93A
3Com LH70 (70km) GBIC		3CGBIC97
Optional Modules and Accessories		
3Com SuperStack 3 Advanced Redundant Power System		3C16071B
3Com SuperStack 3 Advanced RPS Type 2A module	3C16074A	
Network Management		
3Com Network Director		3C15500
3Com Network Administrator		3C15400
3Com Enterprise Management Suite		3C15600
Express [™] Service Plans [†] Americas		EMEA / AP²
3Com SuperStack 3 Switch 4226T 3CS-E	X7N-03E	3CS-EXP-X03
3Com SuperStack 3 Switch 4250T 3CS-E	X7N-05E	3CS-EXP-X05
3Com SuperStack 3 Switch 4228G 3CS-E	X7N-03E	3CS-EXP-X03

'Includes telephone support, advance hardware replacement, and software upgrades 'Europe, Middle East, Africa and Asia Pacific





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