



DATA SHEET

3Com® SuperStack® 3 Switch 4900 and SuperStack 3 Switch 4900 SX

Key Benefits

High-performance, affordable, copper and fiber Gigabit switching

XRN Technology

3Com XRN™ (eXpandable Resilient Networking) technology allows implementation of high availability configurations using two interconnected 3Com® SuperStack® 3 Switch 4900s or Switch 4900 SXs, scaling the backbone to 24 wirespeed Gigabit Layer 3 switching ports.

Performance

Wirespeed, non-blocking Gigabit Ethernet switching across all ports delivers maximum performance for heavily utilized networks. The use of XRN Technology intelligent forwarding can scale the performance of two units to 48 Gbps.

Affordability

The SuperStack 3 Switch 4900 family of fixed configuration managed switches provides unmatched value and industry leading performance without compromise, enhanced further with the pay-as-you-grow capabilities of XRN technology.

High Availability

Robust availability features include link aggregation, support for Rapid Spanning Tree, Redundant Power Supply system, and e-mail or pager status notification, ensuring maximum uptime for critical applications.

The 3Com SuperStack 3 Switch 4900 delivers high performance, feature-rich Gigabit Ethernet switching in a simple, affordable platform, making it an excellent solution for small-to-medium-size networks with growing bandwidth requirements. It's also perfect for large enterprises that require low cost yet high functionality Gigabit Ethernet switching across their data center and the server farm or wiring closet.

Prioritize Business Critical Traffic

Advanced Class of Service support including support for four queues per port, 802.1p, and multilayer packet classification capabilities to allow prioritization of critical traffic.

Layer 3 Switching

Layer 3 switching capabilities such as support for IP unicast routing using static routes, OSPF, RIP/RIPv2, CIDR, and UDP Helper, enhance performance, provide network control and security, and enable logical network segmentation.

Advanced Security Capabilities

Security features such as RADIUS client support and Routed Access Control Lists ensure authorized user access to network resources.

Powerful Management

3Com Network Supervisor application (trial copy included) with discovery, mapping, monitoring, and alerting for easy network administration. Intuitive interface speeds network-wide set-up of switch traffic prioritization.

Both switches support 3Com Gigabit Multilayer Switching (GMS) software, offering advanced Layer 2 switching features such as traffic prioritization, VLANs, multicast filtering, and RMON, as well as Layer 3 switching features, including support for unicast IP routing supporting static routes, RIP/RIP2 and OSPF* and Access Control Lists. Their Class of Service capabilities are ideal for key business applications, such as multimedia, LAN telephony, database and inventory/purchase applications.

* With purchase of optional Advanced Feature License, 3C1770V40

The twelve-port switch is available in two configurations, to support multi-mode fiber optic cabling or traditional Category 5 cabling. Mix and match both

fiber and copper Gigabit media, leveraging optional Gigabit switching modules for cost-effective performance in a simple, integrated platform.

Specifications

Connectors

3C17700: 12 auto-negotiating 100BASE-TX/ 1000BASE-T ports configured as Auto-MDIX (cross-over).

3C17702: 12 1000BASE-SX ports using MT-RJ connectors.

3C17710: Switch 4900 series expansion module supporting 4 1000BASE-SX ports using MT-RJ connectors

3C17711: Switch 4900 series expansion module supporting 4 x 1000BASE-T ports using RJ-45 connectors configured as Auto-MDIX

3C17712: Switch 4900 series expansion module supporting 4 x 1000BASE-LX ports using MT-RJ connectors

3C17714: Switch 4900 series expansion module supporting 4 x GBIC ports

Dimensions

Height: 6.6 cm (2.6 in)
Width: 44 cm (17.3 in)
Depth: 37 cm (14.5 in)
Weight: 6.5 kg (13 lb)

Performance

23 million packets per second

Reliability

MTBF @ 40°C: 326,000 hours

Environmental Requirements

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

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

Operating Humidity: 10% to 90% relative humidity non-condensing

Standards: EN60068 (IEC68)

Safety Agency Certifications

UL1950, EN60950, CSA22.2 No. 950, IEC 60950

Emissions

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: 50 W maximum (168 BTU/hr maximum)

Power Supply

AC Line Frequency 50/60 Hz
Input Voltage Options 90-240 VAC
Current Rating 4.5A maximum

Switching

Features/Functionality

802.1D
802.1Q VLAN Support
IGMP Snooping
Link Aggregation

SNMP Standards

SNMP Protocol (RFC 1157)
MIB-II (RFC 1213)

Bridge MIB (RFC 1493)
RMON MIB II (RFC2021)
Remote Monitoring MIB (RFC 1757)
Interface MIB (2233)
MAU MIB (RFC 2668)

Administration

UDP (RFC 768)
IP (RFC 791)
ICMP (RFC 792)
TCP (RFC 793)
ARP (RFC 826)
TFTP (RFC 783)
TELNET (RFC854)
BOOTP/DHCP (RFC1542)
HTTP (RFC2068)

Routing Protocols

RFC 1058 RIP
RFC 1519 CIDR
RFC 1723 RIP v2
RFC 2131 BootP/DHCP Relay
RFC 2328 OSPF Version 2*
RFC 1850 OSPF Version 2 MIB*

Warranty

3 Year hardware warranty. See www.3com.com/warranty for details.

90 day software warranty

Management

3Com Network Supervisor (trial copy provided on accompanying CD)

Web interface

Command line interface management
SNMP compatibility

* With purchase of optional Advanced Feature License

Ordering Information

3Com SuperStack 3 Switch 4900	3C17700
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3Com SuperStack 3 Switch 4900 SX	3C17702
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Optional Modules and Accessories

3Com XRN Interconnect Kit	3C17715
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3Com 5m XRN Interconnect Cable	3C17722
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3Com GMS v4.0 Advanced Feature License	3C1770V40
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3Com SuperStack 3 Switch 4900 1000BASE-SX Module	3C17710
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3Com SuperStack 3 Switch 4900 4-port 1000BASE-T Module	3C17711
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3Com SuperStack 3 Switch 4900 4-port 1000BASE-LX module	3C17712
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3Com SuperStack 3 Switch 4900 4-Port GBIC Module	3C17714
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Optional Modules and Accessories, continued

3Com 1000BASE-SX GBIC	3CGBIC91
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3Com 1000BASE-LX GBIC	3CGBIC92
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3Com 1000BASE-T GBIC	3CGBIC93A
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3Com 1000BASE-LH70 GBIC (up to 70km)	3CGBIC97
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3Com SuperStack Advanced Redundant Power System Chassis	3C16071B
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3Com SuperStack Advanced Redundant Power System Type 3 325W	3C16075
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Optional Network Management Packages

3Com Network Supervisor Advanced Package	3C15201
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3Com Integration Kit for HP OpenView	3C15300
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To learn more about 3Com solutions, visit www.3com.com. 3Com Corporation is publicly traded on NASDAQ under the symbol COMS.

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