

3COM® SWITCH 4800G GIGABIT FAMILY

Premium Gigabit switches with enhanced IPv4/IPv6 networking, and maximum security, convergence and intelligence



Shown above from top: 3Com Switch 4800G 24-Port, Switch 4800G 48-Port, Switch 4800G 24-Port SFP, Switch 4800G PWR 24-Port, Switch 4800G PWR 48-Port

OVERVIEW

The 3Com® Switch 4800G Gigabit Family delivers outstanding security, reliability and multi-service support capabilities for robust switching at the edge or aggregation layer of large enterprise networks and campus networks, or in the core layer of medium- and small-sized enterprise networks. The family is comprised of Layer 2/3/4 Gigabit Ethernet switches that can accommodate the most demanding applications, providing resilient and secure connectivity and the latest traffic-prioritization technologies to optimize applications on converged networks.

Designed for maximum flexibility, these switches are available with 24 or 48 Gigabit ports. Power over Ethernet (PoE) and non-PoE models are offered, with optional 10-Gigabit expansion capability and SFP mini-GBIC Gigabit combo ports for fiber flexibility. The all-SFP model with dual power supplies, for highest availability applications, allows for very flexible fiber with copper Gigabit connectivity.

Each of the five 3Com Switch 4800G models comes in a convenient, stackable 1U-high enclosure:

Switch 4800G 24-Port. 24 10/100/1000 Mbps ports with two dual-port 10-Gigabit slots; includes four SFP Gigabit combo ports

Switch 4800G 48-Port. 48 10/100/1000 Mbps ports with two dual-port 10-Gigabit slots; includes four SFP Gigabit combo ports

Switch 4800G PWR 24-Port. 24 10/100/1000 Mbps PoE ports with two dual-port 10-Gigabit slots; includes four SFP Gigabit combo ports

Switch 4800G PWR 48-Port. 48 10/100/1000 Mbps PoE ports with two dual-port 10-Gigabit slots; includes four SFP Gigabit combo ports

Switch 4800G 24-Port SFP. 24 SFP Gigabit ports with two dual-port 10-Gigabit slots and dual removable power supplies, with up to two power-cord inputs; includes eight 10/100/1000 Mbps combo ports



3COM

KEY BENEFITS

HIGH EXPANDABILITY FOR INVESTMENT PROTECTION

All models in the 3Com Switch 4800G Gigabit Family include auto-sensing 10-, 100- and 1000-Mbps connections, giving you the ability to gradually upgrade your edge connections to higher bandwidth while retaining full compatibility with slower desktops. Support for dual-speed SFPs facilitates connections to both 100 and 1000 MB fiber cabling, making network migration easier.

Two expansion slots, each supporting available 1- or 2-port 10-Gigabit extension modules, allow for the adoption of 10-Gigabit interfaces for high bandwidth unit-to-unit local connections and uplinks, helping you to protect your network investment.

Every Switch 4800G model has the ability to pass and route IPv4 and IPv6 data. As an IPv4/IPv6 dual-stack platform, the switches are IPv4- and IPv6-ready, supporting the major L3 routing protocols, multicast protocols and policy routing mechanisms and ensuring a seamless migration from IPv4 to IPv6.

PREMIUM SECURITY

Multiple layers of security are built into each Switch 4800G. Management access can be limited to known stations and unauthorized access can be prevented by encrypting management traffic with SSH for CLI access, SSL/HTTPS for web access and SNMPv3 for SNMP management access.

Advanced processor queuing mechanisms help prevent Denial of Service (DOS) attacks while DHCP servers preserve data integrity. Enhanced Access Control Lists (ACLs) restrict users to certain areas of your network. Unicast Reverse Path Finding (uRPF) technology verifies the authenticity of a route from the receiving interface to the source address, deleting the data packet if the route does not exist and preventing malicious network attacks that are based on source address spoofing.

Advanced network access control features, including IEEE 802.1X and MAC-based network login, help ensure that only authorized users get access to the network.

MULTILAYER RELIABILITY

3Com 4800G switches interoperate with a number of link reliability technologies including Rapid Ring Protection Protocol (RRPP), a fast ring protection mechanism created by 3Com. If a link or node on the Ethernet ring fails, RRPP rapidly moves traffic to a backup link, ensuring normal operations without impacting network convergence time. Other network resiliency

features include Spanning Tree, Rapid Spanning Tree and Multiple Spanning Tree protocol support.

Hardware resiliency, delivered with available redundant power system support, allows for the continued operation of the switch in the event of a power supply failure, and supplements power for full PoE operation across all ports. For high-availability fiber connections, the Switch 4800G 24-Port SFP comes with dual 1+1 redundant power supplies with dual power inputs. All switches in this family include fault detection and alarms, power supply and fan monitoring, and remote management.

CONVERGENCE-READY SUPPORT

Built-in PoE enables certain models of the Switch 4800G to power network-attached equipment, significantly reducing costs associated with terminal equipment cabling and management. Industry-standard IEEE 802.3af Power over Ethernet speeds deployment of VoIP, wireless access points and network-attached video surveillance camera systems.

The voice VLAN technology embedded in this family ensures the highest level of security and performance by placing voice traffic on a virtual voice network. By identifying voice streams at their ports and adding corresponding access ports to voice VLANs, the switches provide dedicated channels for voice traffic. Priority rules are then issued to ensure that voice streams are transmitted before data or video streams and conversation quality is optimal.

UNPARALLELED QUALITY OF SERVICE

The 3Com Switch 4800G offers L2-L4 packet filtering and delivers flow classification based on source IP and MAC addresses, destination IP and MAC addresses, ports, protocols or VLANs. The switches also offer flexible queue scheduling algorithms that support settings based on ports and queues and include three scheduling modes: Strict Priority (SP), Weighted Round Robin (WRR) and SP+WRR. Committed Access Rate (CAR) provides minimum granularity of 64 kbps. Outbound and inbound port mirroring monitors and duplicates data packets for network detection and troubleshooting.

POWERFUL, INTEGRATED MANAGEMENT CAPABILITIES

The Switch 4800G supports Simple Network Management Protocol (SNMP) versions 1/2c/3 and open network management platforms such as OpenView and the QuidView Network Management System (NMS).

The switches may also be managed via Command Line Interface (CLI), Web network management, TELNET and Huawei Group

Management Protocol (HGMP) cluster (stacking) management, making equipment management more convenient. Encryption modes such as SSH2.0, SNMPv3 and HTTPS are embedded in the Switch 4800G, ensuring that management traffic is highly secure.

MAC-based and protocol-based VLANs, combined with ACL policies in the global or VLAN mode, minimize hardware resources and simplify configuration. Inbound and outbound packets are randomly sampled and collected according to a set ratio with the sFlow function. LLDP and LLDP-MED are supported for standards-based neighbor discovery.

REDUNDANT POWER SYSTEM SUPPORT

Four 3Com Switch 4800G models support a redundant power system (RPS) connection.

RPS units provide these benefits:

- ▶ For PWR switches, an RPS can deliver more power budget for IEEE 802.3af Power over Ethernet than what the switches alone can provide. For example, the 48-port PWR switch has a PoE power budget of 370 Watts, which means that approximately half of the ports can provide the full 802.3af PoE power of 15.4 Watts. With an RPS providing power, all 48-ports can provide a full 15.4 Watts of PoE power.
- ▶ They deliver redundant power to switches so there is continued operation should the main switch unit power supply fail. This allows for continuous operation of advanced Enterprise networks, particularly important for converged networks running IP phones on the network.

3Com switches are compatible with Eaton Powerware and 3Com H3C™ RPS solutions.

EATON POWERWARE RPS

3Com collaborated with Eaton Powerware for the development of a premium enterprise RPS system for 3Com switches. Eaton, an industry leader in enterprise-capable power solutions,

designed an RPS line for 3Com with standard -48V DC connections, one that stands up to the rigors of an enterprise switch network with Power over Ethernet.

These units have a customizable design, can be built for highest N+1 redundancy, can provision a full stack up to eight-high of PoE switches, support integrated battery backup units, and can be remotely monitored.

3COM H3C RPS SYSTEMS

H3C Redundant Power Systems are enterprise-class power redundancy systems that work with many 3Com fixed-configuration switches, including the Switch 4800G family. 3Com Corporation manufactures networking equipment under the H3C brand for sale into many markets.

There are three H3C RPS models:

- ▶ The H3C RPS 1000 is 1U high and provides multiple power output connections to support multiple switch units at the same time. Two power rectifiers can be installed for 1+1 load sharing and power redundancy. It supports switches with -54V RPS connections, and delivers sufficient power to fully provision all PoE ports of a switch with full power redundancy.
- ▶ The RPS 800 provides selective DC outputs of +12V and -54V. This is a fixed-configuration 1U high unit with a single power rectifier and a single power connection. Sufficient redundant power is available for provisioning a single Switch 4800G 48- or 24-port non-PoE unit.
- ▶ The RPS 500 provides selective DC outputs of +12V and -54V. This is a fixed-configuration 1U high unit with a single power rectifier and a single power connection. Sufficient redundant power is available for provisioning a single Switch 4800G 24-port non-PoE unit.

The table below summarizes RPS support for the 3Com Switch 4800G.

SWITCH 4800G MODEL	RPS SUPPORT	EATON POWERWARE	H3C RPS 1000	H3C RPS 800	H3C RPS 500
PWR 24-Port	Yes [-48V]	Yes	Yes	No	No
PWR 48-Port	Yes [-48V]	Yes	Yes	No	No
24-Port	Yes [+12V]	No	Yes	Yes	Yes
48-Port	Yes [+12V]	No	Yes	Yes	No
24-Port SFP	No – use 2x PSU for power redundancy				

Table 1. RPS support for the 3Com Switch 4800G.

SPECIFICATIONS

CONNECTIVITY

Switch 4800G 24-Port

24 10/100/1000 Mbps with 4 SFP combo interfaces

Switch 4800G PWR 24-Port

24 10/100/1000 Mbps with 4 SFP combo interfaces

10/100/1000 ports with 15.4W per port maximum; 370W total PoE power budget without supplemental RPS power

Switch 4800G 48-Port

48 10/100/1000 Mbps with 4 SFP combo interfaces

Switch 4800G PWR 48-Port

48 10/100/1000 Mbps with 4 SFP combo interfaces

10/100/1000 ports with 15.4W per port maximum; 370W total PoE power budget without supplemental RPS power

Switch 4800G 24-Port SFP

24 100/1000 Mbps SFP with 8 10/100/1000 Mbps combo interfaces

All models

2 expansion slots each supporting up to 2 10-Gigabit interfaces
10BASE-T/100BASE-TX/1000BASE-T ports configured as auto-MDI/MDIX

PERFORMANCE

24-port models

128 Gbps full duplex switching capacity

95.2 Mpps forwarding rate

48-port models

176 Gbps full duplex switching capacity

130.9 Mpps forwarding rate

All models

Wirespeed performance across ports

Store-and-forward switching

Latency <10 μ

LAYER 2 SWITCHING

32K MAC addresses in address table

1K static configurable unicast MAC addresses (in addition to default addresses)

Jumbo frame support

4,094 port-based IEEE 802.1Q VLANs

IEEE 802.1 Q-in-Q double-tagged VLANs

IEEE 802.1v protocol-based VLANs

MAC-based VLANs using RADA auto-VLAN assignment

IEEE 802.3ad Link Aggregation Control Protocol (LACP); manual and static modes

Link aggregation trunk groups per switch:

- 24-port models: 14 groups; 48-port models: 26 groups
- 8 10/100/1000 ports or 4 10-Gigabit ports per group

Auto-negotiation and manual configuration of port speed and duplex

IEEE 802.3x full-duplex flow control and back pressure

Half-duplex back pressure flow control

Unidirectional Link Detection (UDLD)

Broadcast, Multicast and Unicast traffic suppression

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), 16 instances

Bridge Protocol Data Unit (BPDU) protection

Spanning Tree root guard

Internet Group Management Protocol (IGMP) v1, 2 and 3 snooping

Filtering for 1,024 L2/L3 multicast groups

IGMP querier

Dynamic Host Configuration Protocol Relay (DHCP) Option 82

LAYER 3 ROUTING

Hardware based IPv4 and IPv6 routing

256 static routes, in addition to default address

12K routing table entries

Address Resolution Protocol (ARP) entries: 8K dynamic, 1K static

128 virtual IP interfaces

Routing Information Protocol (RIP) v1 and v2: 2K routes

Open Shortest Path First (OSPF) v1 and v2: 12K routes

Protocol Independent Multicast-Dense Mode (PIM-DM)

Protocol Independent Multicast-Sparse Mode (PIM-SM)

IGMP v1, v2, v3

Border Gateway Protocol (BGPv4); 12K routes

IEEE 802.1Q GARP VLAN Registration Protocol (GVRP)

Equal Cost Multipath Protocol (ECMP); up to 3 ECMP instances

Multicast VLAN Registration (MVR)

Multicast Source Discovery Protocol (MSDP)

Multicast Listener Discovery (MLD) v1 and 2, and MLD Snooping v1, 2 and 3

Dynamic Host Configuration Protocol Relay (DHCP Relay)

Virtual Router Redundancy Protocol (VRRP)

Rapid Ring Protection Protocol (RRPP)

Policy-based routing

Routing Information Protocol next generation (RIPng) for IPv6; 2K routes

OSPF version 3 for IPv6; 6K routes

Border Gateway Protocol 4 (BGP4) for IPv6; 6K routes

MSDP for IPv6

Manual configuration of IPv6 over IPv4 tunnels

Compatible with 6to4 tunneling and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)

CONVERGENCE

8 hardware output queues at each port

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

Remarking of packet priority based on:

- Type of Service (ToS)
- IEEE 802.1p CoS
- IP precedence
- Physical port
- Source/destination MAC address (IPv4/IPv6)

SPECIFICATIONS (CONTINUED)

- VLAN information
 - Ethertype
 - Source/destination IP address
 - Source/destination TCP port
 - Source/destination UDP port
- Packet/traffic redirection
Inbound and outbound ACL policies
VLAN-based ACL policies
Time-based Access Control Lists (ACLs)
Auto-voice VLAN for automatic vendor-independent segregation and prioritization of VoIP traffic
Auto-prioritization of voice traffic determined by vendor OUI
Weighted Round Robin (WRR) Queuing
Strict Priority (SP) Queuing
Mixed mode WRR + SP Queuing
DiffServ Code Point (DSCP) priority/expedited remarking of packets
Forwarding (DSCP EF) remarking for prioritization of VoIP traffic
Application rate limiting, inbound and outbound; Committed Access Rate (CAR) with granularity of 64 kbit/sec.
Restricted packet sending and receiving rates with granularity of 64 kbits/sec.
Storm suppression based on port rate percentage and pps
Port-based traffic shaping on egress
Wake-on-LAN support
IEEE 802.3af Power over Ethernet standards-compliant (PWR models)

SECURITY

- IEEE 802.1X network login user authentication:
- Local, RADIUS, or TACACS+ server authentication
 - Port-based, MAC-based and trunk port authentication
 - PAP, CHAP, EAP over LAN (EAPoL), EAP-TLS/TTLS and PEAP
 - Automatic port assignment of VLANs, ACLs and QoS profile based on user
 - Multiple users per port
 - 1,024 max online users
 - Guest VLAN option
 - Multiple authentication server realm definitions
- Centralized MAC address authentication
AAA authentication
RADIUS/TACACS+ session accounting
RADIUS Authenticated Device Access (RADA): authenticate devices based on MAC address against RADIUS server or local database
Combined MAC and IEEE 802.1X authentication on same port
Black-hole MAC addresses
DHCP Tracker
DHCP snooping, including DHCP Trust
Wirespeed packet filtering in hardware
ACLs filter at Layers 2, 3 and 4:
- Source/destination MAC address
 - Ethernet type
 - Source/destination IP address

- Source/destination TCP port
 - Source/destination UDP port
- User-defined ACL filters
VLAN-based ACLs
Port-based MAC address Disconnect
Unknown Device (DUD)
ARP inspection and IP source guard
IEEE 802.1X or TACACS+ user authentication of switch management on TELNET and console sessions
MD5 cipher-text and clear-text authentication for OSPF v2 and RIP v2 packets and SNMP v3 traffic
Hierarchical management and password protection for management interface and encrypted traffic, with SNMP v3, SSL, and SSH v2
4 local user access privilege levels
Trusted management station IP and/or MAC address
Encoded Archival Description (EAD)
Denial of service protection

STACKING

Clustered stacking technology: single IP management for up to 32 devices from different 3Com switch families, including Switch 5500G, 5500, 4800G, 4500G, 4500, 4200G and 4210

MANAGEMENT

- Single console interface
Configuration via CLI (Command Line Interface), Console port, Simple Network Management Protocol (SNMP), embedded web interface
Remote configuration via TELNET
Embedded web management interface
System configuration with SNMP v1, 2c and 3
Comprehensive statistics, including ACL/QoS and IP interface
Syslog
IPv4 management including ping, traceroute, TELNET, and remote ping
IPv6 management including pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6 and ARPv6
IPv6 management interface IP address configuration
Remote Monitoring (RMON) groups statistics, history, alarm and events
DHCP server including options 60, 82 and 184
Supports multiple software images and bank swap, stored in non-volatile memory
1-to-1 port mirroring
Many-to-1 port mirroring
VLAN-to-1/flow-based port mirroring
Remote port mirroring (RSPAN)
Ability to apply ACL to mirror port and forward only certain traffic types
Detailed alarm and debug information
Front panel indicators for port and unit status information
Configuration file for backup and restore, stored in non-volatile memory; multiple configuration files available
Backup and restore of software images
Network Time Protocol (NTP)
DHCP Relay and UDP Helper

SPECIFICATIONS (CONTINUED)

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

Virtual Cable Test (VCT) function

Link Layer Discovery Protocol (LLDP)

sFlow

Power alarms; fan and temperature alarms

Debugging information output

Device Link Detection Protocol (DLDP)

Port loopback detection

Management applications:

- 3Com Network Supervisor (3NS)
- 3Com Network Director (3ND)
- 3Com Enterprise Management Suite (EMS)
- QuidView Network Management Systems (NMS)

DIMENSIONS

Height: 43.6 mm (1.7 in or 1 RU)

Width: 440.0 mm (17.4 in)

Depth:

24- and 48-port non-PWR: 300.0 mm (11.8 in)

24- and 48-port PWR: 420.0 mm (16.5 in)

24-port SFP: 360.0 mm (14.2 in)

Weight:

Switch 4800G 24-Port: 4.0 kg (8.8 lbs)

Switch 4800G 48-Port: 4.5 kg (9.9 lbs)

Switch 4800G PWR 24-Port: 6.0 kg (13.2 lbs)

Switch 4800G PWR 48-Port: 6.5 kg (14.3 lbs)

Switch 4800G 24-Port SFP: 6.3 kg (13.9 lbs)

POWER SUPPLY

AC

Rated voltage range: 100 V to 240, 50/60 Hz

DC-rated voltage range (for RPS)

Switch 4800G 24-Port: 10.8 to 13.2

Switch 4800G 48-Port: 10.8 to 13.2; -52 to -55

Switch 4800G PWR 24-Port: -52 to -55

Switch 4800G PWR 48-Port: -52 to -55; -48 to -60

Switch 4800G 24-Port SFP: -48 to -60

Power consumption (max)

Switch 4800G 24-Port: 110 W

Switch 4800G 48-Port: 155 W

Switch 4800G PWR 24-Port: 205 W, plus up to 370 W for PoE

Switch 4800G PWR 48-Port: 270 W, plus up to 370 W for PoE

Switch 4800G 24-Port SFP: 115 W

Optional RPS available to provision additional PoE power to ports (PWR models only)

ENVIRONMENTAL REQUIREMENTS

Operating temperature: 0° to 45°C (32° to 113°F)

Operating humidity: 10% to 90% non-condensing

Heat dissipation (max)

Switch 4800G 24-Port: 380 BTU/hour

Switch 4800G 48-Port: 530 BTU/hour

Switch 4800G PWR 24-Port: 700 BTU/hour; excludes heat from PoE

Switch 4800G PWR 48-Port: 925 BTU/hour; excludes heat from PoE

Switch 4800G 24-Port SFP: 395 BTU/hour

RELIABILITY

24-port: 42 years (374,000 hours)

48-port: 37 years (328,000 hours)

24-port PWR: 44 years (389,000 hours)

48-port PWR: 35 years (307,000 hours)

24-port SFP: 36 years (322,000 hours)

EMISSIONS/AGENCY APPROVALS

CISPR 22 Class A

FCC Part 15 Class A

EN 55022 1998 Class A

EN 61000-3-2 2000, 61000-3-3

ICES-003 Class A

VCCI Class A

IMMUNITY

EN 55024

SAFETY AGENCY CERTIFICATIONS

UL 60950

IEC 60950-1

EN 60950-1

CAN/CSA-C22.2 No. 60950-1-03

STANDARDS AND PROTOCOLS

IEEE standards

IEEE 802.1AB (LLDP)

IEEE 802.1D (STP)

IEEE 802.1p (CoS)

IEEE 802.1 PAE (PAE MIB)

IEEE 802.1Q GVRP (GVRP)

IEEE 802.1s (MSTP)

IEEE 802.1v (Protocol-based VLANs)

IEEE 802.1w (RSTP)

IEEE 802.1X (Network Login)

IEEE 802.3 LAG (LAG MIB)

IEEE 802.3ab (1000BASE-T)

IEEE 802.3ac (VLAN Tagging Extension)

IEEE 802.3ad (Link Aggregation)

IEEE 802.3ae (10 Gigabit Ethernet)

IEEE 802.3af (Power over Ethernet)

IEEE 802.3i (10BASE-T)

IEEE 802.3u (Fast Ethernet)

IEEE 802.3x (Flow Control)

IEEE 802.3z (Gigabit Ethernet)

SPECIFICATIONS (CONTINUED)

RFC standards

RFC 791 (IP)
 RFC 792 (ICMP)
 RFC 793 (TCP)
 RFC 854 and RFC 856 (TELNET)
 RFC 925 (Multi-LAN Address Resolution)
 RFC 950 (IP Datagram Forwarding)
 RFC 951 (BootP)
 RFC 1058 (RIP v1)
 RFC 1122 (IP Options)
 RFC 1141 (IP Datagram Forwarding)
 RFC 1157 (SNMPv1/v2)
 RFC 1212 (Concise MIB Definitions)
 RFC 1213 (SNMP MIB II)
 RFC 1215 (SNMP Traps)
 RFC 1253 (OSPFv2 MIB)
 RFC 1305 (NTPv3)
 RFC 1350 (TFTP)
 RFC 1389 (RIP MIB)
 RFC 1492 (HWTACACS)
 RFC 1519 (CIDR)
 RFC 1542 (BootP)
 RFC 1587 (OSPF NS SA)
 RFC 1657 (BGP-4 MIB)
 RFC 1723 (RIPv2)
 RFC 1724 (RIPv2 MIB Extension)
 RFC 1757 (RMON I MIB)
 RFC 1771 (BGP)
 RFC 1812 (IPv4 Router Compliance)
 RFC 1850 (OSPFv2 MIB)
 RFC 1881 (IPv6 Address Allocation Management)
 RFC 1886 (IPv6 DNS Extensions)
 RFC 1887 (IPv6 Unicast Address Allocation Architecture)
 RFC 1901 (SNMPv2)
 RFC 1907 (SNMPv2c, SMIv2 and Revised MIB-II)
 RFC 1918 (Private Internet Address Allocation)
 RFC 1981 (IPv6 Path MTU Discovery)
 RFC 2096 (IP Forwarding Table MIB)
 RFC 2012 (TCP SNMPv2 MIB)
 RFC 2080 (IPv6/RIPng)
 RFC 2131 (DHCP Client)
 RFC 2233 (MIB)
 RFC 2236 (IGMP Snooping)
 RFC 2284 (EAP over LAN)
 RFC 2328 (OSPFv2)
 RFC 2373 (IPv6 Addressing Architecture)
 RFC 2375 (IPv6 Multicast Address Assignments)
 RFC 2401 (IP Security Architecture)
 RFC 2402 (IP Authentication Header)
 RFC 2406 (IP Encapsulating Security Payload)
 RFC 2409 (IKE)
 RFC 2452 (TCP/IP)
 RFC 2454 (UDP6)
 RFC 2460 (IPv6 Specification)
 RFC 2461 (IPv6/ND)
 RFC 2462 (IPv6 Stateless Address Auto-configuration)
 RFC 2463 (ICMPv6)
 RFC 2464 (IPv6 Over Ethernet)
 RFC 2465 and 2466 (IPv6 MIB)
 RFC 2474 (DSCP Diffserv)
 RFC 2475 (IPv6 Diffserv Architecture)
 RFC 2526 (Reserved IPv6 Anycast Addresses)
 RFC 2571 (SNMP Framework)
 RFC 2572 - 2576 (SNMP)
 RFC 2578 (New Traps)
 RFC 2581 (TCP6)
 RFC 2597 (Assured Forwarding)
 RFC 2598 (Expedited Forwarding)
 RFC 2616 (HTTP Compatibility v1.1)
 RFC 2618 (RADIUS Authentication Client MIB)
 RFC 2620 (RADIUS Accounting Client MIB)
 RFC 2644 (Directed Broadcast Control)
 RFC 2710 (MLD IPv6/MLD Snooping)
 RFC 2740 (OSPFv3)
 RFC 2767 (Dual stacks IPv4 & IPv6)
 RFC 2819 (RMON I MIB)
 RFC 2858 (BGP-4 Multi-protocol Extensions)
 RFC 2865 (Remote Authentication Dial-In User RADIUS)
 RFC 2866 (RADIUS RFC 2138/ Accounting)
 RFC 2893 (IPv6 Host and Router Transition Mechanism)
 RFC 2925 (Ping MIB)
 RFC 3056 (6to4 Tunneling)
 RFC 3246 (Expedited PHB)
 RFC 3306 (Unicast Prefix-Based IPv6 Multicast Addresses)
 RFC 3307 (IPv6 Multicast Address Allocation)
 RFC 3410 (SNMP)
 RFC 3414 (SNMP User-Based SM MIB)
 RFC 3415 (SNMP View-based ACM MIB)
 RFC 3416 (SNMPv2)
 RFC 3417 (SNMP Transport)
 RFC 3484 (IPv6 Default Address Selection)
 RFC 3493 (IPv6 Basic Socket Interface)
 RFC 3513 (IPv6 Addressing Architecture)
 RFC 3542 (Advanced Sockets API for IPv6)
 RFC 3587 (IPv6 Global Unicast Address)
 RFC 3596 (IPv6/DNS6 Extensions)
 RFC 3623 (OSPF GR)
 RFC 3768 (VRRP)
 RFC 3810 (MLDv2)
 RFC 4113 (IPv6 MIB for UDP)
 RFC 4213 (IPv6 Host and Routers Transition Mechanisms)
 RFC 4443 (ICMPv6 for IPv6)

PRODUCT WARRANTY AND OTHER SERVICES

Warranty. Limited Lifetime Warranty. For as long as the original end user owns the product, or for five years after 3Com discontinues the sale of the product, whichever occurs first.

Hardware coverage. Covers the complete unit including power supplies and fan.

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. 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.

Telephone support*. Technical support via phone for 90 days.

*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.

ORDERING INFORMATION

PRODUCT DESCRIPTION	ORDER NUMBER
3Com Switch 4800G 24-Port	3CRS48G-24-91
3Com Switch 4800G 48-Port	3CRS48G-48-91
3Com Switch 4800G PWR 24-Port	3CRS48G-24P-91
3Com Switch 4800G PWR 48-Port	3CRS48G-48P-91
3Com Switch 4800G 24-Port SFP	3CRS48G-24S-91
Modules	
3Com 2-Port 10-Gigabit Module (XFP)	3C17766
3Com 2-Port 10-Gigabit Local Connection Module	3C17767
3Com 1-Port 10-Gigabit Module (XFP)	3C17768
Power Supplies	
3Com Switch 4800G 24-Port SFP AC Power Module*	0231A66A
Gigabit SFP Transceivers	
3Com 1000BASE-SX SFP	3CSFP91
3Com 1000BASE-LX SFP	3CSFP92
3Com 1000BASE-LH SFP	3CSFP97
Fast Ethernet SFP Transceivers	
3Com 100BASE-FX SFP (Dual-Mode)	3CSFP9-81
3Com 100BASE-LX SFP (Dual-Mode)	3CSFP9-82
10-Gigabit XFP Transceivers	
3Com 10GBASE-LR	3CXFP92
3Com 10GBASE-SR	3CXFP94
3Com 10GBASE-ER	3CXFP96

PRODUCT DESCRIPTION	ORDER NUMBER
Cables	
3Com CX4 Local Connection Cable – 50 cm	3C17775
3Com CX4 Local Connection Cable – 100 cm	3C17776
3Com CX4 Local Connection Cable – 300 cm	3C17777
3Com Global Services	
3Com Wireless LAN Site Survey	www.3com.com/services_quote
Network Health Check, Installation Services and Express SM Maintenance	
3Com University Courses	www.3com.com/3comu

*For the Switch 4800G 24-Port SFP only. The switch ships with one PSU and one empty redundant PSU slot. Order this for 1+1 PSU redundancy.

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401083-005 01/09



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