

# 3COM SWITCH 5500G GIGABIT FAMILY

Premium stackable Gigabit switches with maximum security, convergence features and intelligence required by the most demanding advanced enterprise networks

## OVERVIEW

The 3Com® Switch 5500G Gigabit Family delivers premium levels of performance, security and reliability for robust switching at the enterprise network edge. The family consists of Layer 2/3/4 Gigabit Ethernet and Power over Ethernet switches, with advanced features that can accommodate the most demanding applications, offering resilient and secure connectivity and the latest traffic-prioritization technologies to optimize applications on converged networks. Designed for maximum flexibility and scalability, 3Com Switch 5500G models come with 24 or 48 Gigabit ports, and offer optional modules for 10-Gigabit and SFP Gigabit uplink connections.

The switches can be stacked up to eight units high using patented 3Com XRN® (eXpandable Resilient Networking) technology. One XRN stack can provide up to 448 Gigabit Ethernet ports, with 96 Gbps resilient stacking bandwidth, all centrally managed, with high-end enterprise chassis-class availability.

Further expansion is possible via clustered stacking technology, allowing single IP management for up to 32 devices from different 3Com switch families, including the Switch 5500G, 5500, 4800G, 4500G, 4500, 4200G and 4210.

## KEY BENEFITS

### ENTERPRISE-LEVEL PERFORMANCE

3Com Switch 5500G 10/100/1000 devices provide switching capacity of up to 232 Gbps for 48-port models and 184 Gbps for 24-port models. Wirespeed line-rate performance is delivered on all ports within the stack. Advanced Layer 3 routing—including OSPF, PIM-SM, PIM-DM and RIP v1/v2—helps deliver optimal performance and system response.



from top: 3Com Switch 5500G-EI 24-Port, Switch 5500G-EI PWR 24-Port, Switch 5500G-EI 48-Port, Switch 5500G-EI PWR 48-Port, Switch 5500G-EI 24-Port SFP

### BUILT FOR FLEXIBILITY AND GROWTH

The Switch 5500G family consists of five models: choose 24 or 48 Gigabit ports, with or without PoE; a fifth SFP model offers 24 SFP Gigabit ports. Four ports on each of these models are dual-purpose or “dual-personality”, functioning as either 10/100/1000 or with fiber Gigabit SFPs; two of these four SFP ports also support Fast Ethernet fiber.

All models come with an applications module slot for adding ports or capabilities. Install an 8-port SFP Gigabit module, or a 1- or 2-port 10-Gigabit module. Use this in the future to add a 3Com Open Services Networking (OSN) module.

### HIGH AVAILABILITY FOR CRITICAL APPLICATIONS

XRN technology, a 3Com innovation, enables multiple inter-connected and stackable Layer 3 switches to be managed as a single entity. Stack and switching fabric setup is automated and provides a high level of resiliency and continuous availability without adding to network complexity. After configuration, all switches actively share routing intelligence and network loads—eliminating the wasted bandwidth and added expense of a passive standby unit. Ultra-fast failover recovery automatically redistributes traffic among the other active units in case a switch becomes disconnected or fails.

### MULTILAYER SECURITY

The Switch 5500G family provides integrated and distributed security enforcement that can be managed from a central location. Access control lists (ACLs) help protect network resources from unauthorized access and data corruption. User-based authentication



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## KEY BENEFITS (continued)

and DES 56/168-bit<sup>†</sup> encryption help secure Layer 3 protocols and management controls such as SSH v2 and SNMP. IEEE 802.1X RADIUS/TACACS+ network login and RADIUS Authenticated Device Access (RADA) enforce access control at the network edge.

### PRIORITY FOR CONVERGED BUSINESS TRAFFIC

Next-generation traffic prioritization features—including advanced policy-based Class of Service/Quality of Service (CoS/QoS), eight priority queues, committed access rates, bandwidth limiting and filtering and more—identify and optimize delay-sensitive traffic such as voice and video. To help assure this optimization, switches can be configured to automatically isolate voice traffic from 3Com and other IP telephony systems within a voice-dedicated VLAN.

### UNIQUE AC/DC POWERED OPERATION

3Com Switch 5500G products are the first stackable switches to support multiple power schemes right out of the box, with a choice of AC, AC and DC, or DC operation. Select models also support IEEE 802.3af PoE, enabling power to be injected out to the edge of the network without the need to install additional wires or upgrade existing power supplies. The customer-swappable power supply unit enables non-PoE models to be easily upgraded to PoE capability.

### REDUNDANT POWER SYSTEM SUPPORT

All 3Com Switch 5500G 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 Switch 5500G PWR 48-port switch has a PoE power budget of 300 Watts, which means that less than 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 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 H3C RPS Systems

3Com switches are compatible with 3Com H3C<sup>®</sup> RPS solutions. These are enterprise-class power redundancy systems that work with many 3Com fixed-configuration switches. 3Com Corporation manufactures networking equipment under the H3C brand for sale into many markets.

## FEATURE HIGHLIGHTS

Provides up to 56 Gigabit Layer 2/3/4 ports per switch and up to 448 Gigabit ports in a stack eight units high, managed as a single-IP entity

Equipped with four dual-purpose ports on each switch providing either 10/100/1000 or SFP Fast<sup>¥</sup>/Gigabit Ethernet connectivity

Offers optional 1- and 2-port 10-Gigabit and 8-port SFP Gigabit modules for links to the network core

Delivers wirespeed and line-rate performance on all ports

Offers OSPF and multicast routing, 3Com XRN stacking technology and IEEE 802.3af Power over Ethernet

Provides high resiliency and continuous availability with active load sharing and support for ultra-fast failover recovery

Implements multilayer distributed security including ACLs, DES 56/168-bit<sup>†</sup> encryption, IEEE 802.1X network login and RADA authentication

Prioritizes converged network traffic with advanced CoS/QoS and other features to ensure high levels of service for latency-sensitive applications

Supports advanced enterprise switching technology including Border Gateway Protocol (BGP), VLAN VPN (Q-in-Q) and others

Leverages existing power schemes in data centers and switching infrastructures with built-in support for both AC and DC power

Consolidates administrative control and enhances core-to-edge visibility with an operating system shared with 3Com modular switches and routers

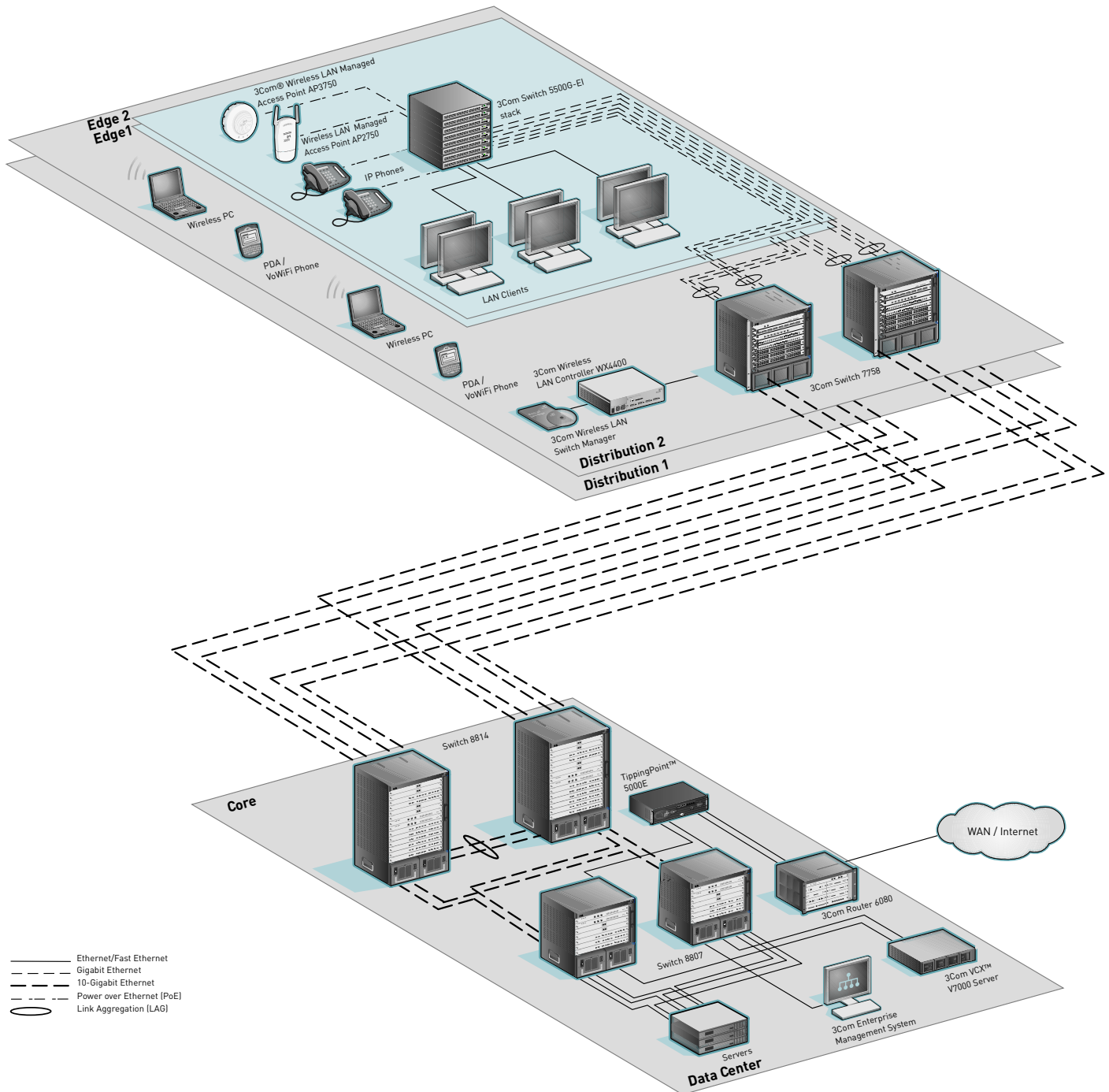
Offers an SFP-based model with 24 SFP Gigabit ports, four of which are dual-purpose

Backed by top-flight service, support and training from 3Com and 3Com authorized partners

<sup>¥</sup> Two of the four SFP ports are capable of supporting Fast Ethernet fiber, via 1000BASE-X compatible SFP transceivers 3CSFP9-81 and 3CSFP9-82.

<sup>†</sup> 168-bit encryption not available in all countries. Refer to [www.3com.com](http://www.3com.com) for details.

## SWITCH 5500G FAMILY IN ENTERPRISE CAMPUS NETWORK



In the above network, 3Com Switch 4500G and Switch 5500G-EI units are managed as a single cluster.

## KEY BENEFITS (continued)

These H3C RPS models are used with the Switch 5500G:

- › 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 5500G 48- or 24-port non-PoE unit.

## POWERFUL, UNIFIED MANAGEMENT

The 3Com Operating System employed in the Switch 5500G is the same powerful software used in other 3Com enterprise stackable switches as well as in 3Com modular switch and enterprise router families. This makes for an easy mix-and-match of networking technologies with consolidated administration over the entire network, as well as edge-to-core visibility and control when using 3Com management applications such as 3Com Enterprise Management Suite and Network Director.

## FUTURE-PROOF INVESTMENT

Standards-based switching and management features provide a networking solution that maximizes IT investment and supports emerging standards. Comprehensive IPv6 management features, as well as IPv6 traffic filtering and classification, prepares your network for this next generation IPv6 version while maintaining full compatibility with today's more common IPv4.

## WORLD-CLASS SERVICE, SUPPORT AND TRAINING

The 3Com Switch 5500G is backed by 3Com and its authorized partners. Professional customer service organizations offer assessment, installation, management and maintenance support for network infrastructures. Skilled personnel with experience in a variety of network environments can assist 3Com customers through all phases of network planning, implementation, troubleshooting and product training.

## PRODUCT WARRANTY AND OTHER SERVICES

Warranty	3Com Limited Lifetime Warranty. For as long as the original end user owns the product, or for five years after 3Com discontinues the of sale of the product, whichever occurs first.
Hardware coverage	Covers the complete unit including power supply 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. For the Switch 5500G, updates are all releases within the licensed 3Com OS software level.
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.

### Additional Service, Support and Training Offerings

#### 3Com Guardian<sup>SM</sup> Maintenance Service

This service provides comprehensive on-site support and includes advance hardware replacement, expedited 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 (including a four-hour option), expedited telephone technical support and software upgrades

#### 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 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 5500G Gigabit family, unless otherwise stated.

### CONNECTORS

#### 48-port models

48 auto-negotiating 10BASE-T/ 100BASE-TX/1000BASE-T ports, 4 of which are dual-personality 10/100/1000 or SFP Gigabit ports<sup>†</sup>  
IEEE 802.3af in-line power on all 10/100/1000 ports for PWR models

#### 24-port SFP model

24 Gigabit SFP ports, 4 of which are dual-personality 10BASE-T/ 100BASE-TX/1000BASE-T or SFP Gigabit ports<sup>†</sup>

#### 24-port, other models

24 auto-negotiating 10BASE-T/ 100BASE-TX/1000BASE-T, 4 of which are dual-personality 10/100/1000 or SFP Gigabit ports<sup>†</sup>  
IEEE 802.3af in-line power on all 10/100/1000 ports for PWR models

#### All models

Application module slot  
2 XRN Stacking ports (each 48Gbps full-duplex)  
Redundant power supply (-48 VDC) connector  
RJ-45 console port

### PERFORMANCE

#### 48-port

232.0 Gbps switching capacity, max. (with 2-port 10-Gigabit module)  
172.6 Mpps forwarding rate, max. (with 2-port 10-Gigabit module)  
142.3 Mpps forwarding rate, max. (with no optional modules)

#### 24-port

184.0 Gbps switching capacity, max. (with 2-port 10-Gigabit module)  
136.9 Mpps forwarding rate, max. (with 2-port 10-Gigabit module)  
107.1 Mpps forwarding rate, max. (with no optional modules)

#### All models

Wirespeed performance across all ports within stack or fabric  
Store-and-forward switching; latency <10 µs  
96 Gbps full-duplex resilient stacking bandwidth

### LAYER 2 SWITCHING

16K MAC addresses in address table

1K static MAC addresses, in addition to default address

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

Auto-voice VLAN for automatic vendor-independent segregation and prioritization of VoIP traffic

IEEE 802.3ad Link Aggregation Control Protocol (LACP); automated and manual aggregation

Link aggregation trunk groups, per switch:

- 32 groups
- 8 10/100/1000 ports or 4 10-Gigabit ports per group
- 32 Distributed Link Aggregation (DLA) groups

Auto-negotiation and manual configuration of port speed and duplex

IEEE 802.3x full-duplex flow control

Back pressure flow control for half-duplex

Unidirectional Link Detection (UDLD)

Broadcast, Multicast and Unicast traffic suppression

Wake-on-LAN support

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

Bridge Protocol Data Unit (BPDU) protection

Spanning Tree root guard

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

IGMP querier

Filtering for 256 multicast groups

Dynamic Host Configuration Protocol Relay (DHCP) Option 82

### LAYER 3 SWITCHING

## SPECIFICATIONS (continued)

### Hardware based routing

256 static routes, in addition to default address

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

128 IP interfaces

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

Open Shortest Path First (OSPF):

- 8 areas with 8 virtual interfaces per area
- 40 neighbors per virtual interface
- Eight virtual links

Protocol Independent Multicast-Dense Mode (PIM-DM)

Protocol Independent Multicast-Sparse Mode (PIM-SM)

IGMP v1 and v2

Border Gateway Protocol (BGPv4)

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

Multicast VLAN Registration (MVR)

Dynamic Host Configuration Protocol Relay (DHCP Relay): 8 K max.

3Com XRN® Technology:

- High-bandwidth 96 Gbps resilient stacking links
- Distributed Link Aggregation, hot-swappable switch units; high-speed fully resilient trunks up to 40 Gbps
- Distributed Resilient Routing: optimized Layer 3, one routing table per switch

Virtual Router Redundancy Protocol (VRRP)

### CONVERGENCE

8 hardware queues per port

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

Remarking of packets based on priority:

- Type of Service (ToS)
- IEEE 802.1p CoS
- IP precedence
- Physical port
- Source/destination MAC address
- VLAN information
- Ethertype
- Source/destination IP address
- Source/destination TCP port
- Source/destination UDP port

Traffic redirection

Time-based Access Control Lists (ACLs)

Auto-prioritization of voice traffic determined by vendor OUI

Weighted Round Robin (WRR), including WRR+SP

Strict Priority Queuing (SP)

DiffServ Code Point Expedited Forwarding (DSCP EF) remarking for prioritization of VoIP traffic

Application rate limiting and blocking on ingress

Port-based traffic shaping on egress

IEEE 802.3af Power over Ethernet standards-compliant (PWR models)

### POE (PWR MODELS ONLY)

IEEE 802.3af PoE injection into Cat5 or 5e LAN wiring (300 W total max.)

Supports all standard and most common pre-standard phones, access points and other PoE devices from selected vendors (Cisco, Nortel, Philips, Siemens, Avaya, NEC, Polycom, Pingtel, Proxim, et. al.)

Available standards-based supplemental power system enables full 15.4 W to all PoE ports in a switch or stack

### SECURITY

IEEE 802.1X Network login user authentication:

- Local, RADIUS, or TACACS+ server 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 users per fabric

- Guest VLAN option

- Multiple authentication server realm definitions

RADIUS/TACACS+ session accounting

RADIUS Authenticated Device Access (RADA): authenticate devices based on MAC address against RADIUS server or local database; assign VLAN ID and ACL through RADIUS

Combined MAC and IEEE 802.1X authentication on same port

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 and SSH v2

4 local user access privilege levels

Trusted management station IP and/or MAC address

SNMPv3 encryption

SSHv2 CLI encryption

SSL/HTTPS secure web access

### STACKING

Up to 448 Gigabit ports, of which 384 are 10/100/1000

Single IP address and management interfaces for stack-wide control

Hot-swappable, resilient stacking

High-bandwidth 96 Gbps resilient stacking links

Distributed Resilient Routing with router tables in all units; no master/ slave arrangement

Combine any Switch 5500G-EI models into a single stack, up to 8-high, when using XRN technology

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

### MANAGEMENT

CLI via console or Telnet

Embedded web management interface

System configuration with SNMP v1, 2c and 3

Comprehensive statistics, including ACL/QoS and IP interface

Syslog

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 port mirroring

Remote port mirroring

Ability to apply ACL to mirror port and forward only certain traffic types

Detailed alarm and debug information

## SPECIFICATIONS (continued)

Front panel indicators for port and unit status information

Supports ping, remote ping and traceroute

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

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

Link Layer Discovery Protocol (LLDP and LLDP-MED)

### 3Com management applications:

- 3Com Enterprise Management Suite for flexible, extensible management in advanced enterprise IT environments
- 3Com Network Director for comprehensive, turn-key network management for the enterprise
- 3Com Network Supervisor for basic, turn-key network management for mid-market businesses
- 3Com Network Access Manager for IEEE 802.1X and RADA integration with IAS/Active Directory
- 3Com Switch Manager for virtual clustering support across 3Com switch families

### DIMENSIONS

Height: 43.6 mm (1.7 in or 1U)

Width: 440 mm (17.3 in)

Depth: 450 mm (17.7 in)

Weight: varies, depending on PSU installed

### POWER SUPPLY

Mode support: AC-only, AC and DC, DC-only operation

Built-in DC power stage for direct connection to -48 V supply

Field-replaceable power supply

AC Line Frequency: 50/60 Hz

Input Voltage: 90-240 VAC

AC current rating: 3.0A max. (PWR models: 8.0A max.)

DC current rating: 5.5A max. (PWR 24-port: 12.0A; PWR 48-port: 19.5A; max.)

Non-PWR models are field-upgradeable to PoE support with installation of PoE-enabled power supply

Power consumption (max)

24-port non-PWR: 74 W

48-port non-PWR: 142 W

24-port PWR: 109 W, plus up to 300 W for PoE

48-port PWR: 181 W, plus up to 300 W for PoE

24-port SFP: 65 W

### ENVIRONMENTAL

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

Operating altitude: 0 to 4,572 meters (0 to 15,000 feet)

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

Humidity (operating and storage): 10% to 95% non-condensing

Standard: EN 60068 (IEC 68)

Sound pressure level (dBA):

- 48-port: 54.5 decibels
- 48-port PWR: 53.0 decibels
- 24-port: 52.6 decibels
- 24-port PWR: 54.1 decibels
- 24-port SFP: 57.4 decibels

### Heat dissipation (max.)

24-port non-PWR: 253 BTU/hour

48-port non-PWR: 483 BTU/hour

24-port PWR: 373 BTU/hour; excludes heat from PoE

48-port PWR: 618 BTU/hour; excludes heat from PoE

24-port SFP: 222 BTU/hour

### RELIABILITY

(MTBF @ 25°C)

48-port: 25 years (219,000 hours)

48-port PWR: 23 years (201,000 hours)

24-port: 34 years (298,000 hours)

24-port PWR: 31 years (272,000 hours)

24-port SFP: 29 years (256,000 hours)

### INDUSTRY STANDARDS SUPPORTED

#### Ethernet Protocols

IEEE 802.1D (STP)

IEEE 802.1p (CoS)

IEEE 802.1Q (VLANs)

IEEE 802.1s (MSTP)

IEEE 802.1v (Protocol VLANs)

IEEE 802.1w (RSTP)

IEEE 802.1X (Security)

IEEE 802.3 (Ethernet)

IEEE 802.3ab (1000BASE-T)

IEEE 802.3ad (Link Aggregation)

IEEE 802.3ae (10G Ethernet)

IEEE 802.3af (Power over Ethernet)

IEEE 802.3i (10BASE-T)

IEEE 802.3u (100BASE-TX/-FX)

IEEE 802.3x (Flow Control)

IEEE 802.3z (1000BASE-X)

#### Management, including MIBs Supported

RFC 768 (UDP)

RFC 783 (TFTP)

RFC 791 (IP)

RFC 792 (ICMP)

RFC 793 (TCP)

RFC 826 (ARP)

RFC 1058 (Routing Information Protocol)

RFC 1112 (IP Multicasting)

RFC 1157 (SNMP)

RFC 1213 (MIB II)

RFC 1253 (OSPF v2)

RFC 1583 (OSPF v2)

RFC 1587 (OSPF NSSA Option)

RFC 1724 (RIP v2 MIB Extension)

RFC 1757 (RMON)

RFC 1812 (Requirements for IPv4 Routers)

RFC 1850 (OSPF v2)

RFC 1901 (Community Based SNMP v2)

RFC 1902 (SMI for SNMP v2)

RFC 1903 (SNMP v2 Text Conventions)

RFC 1904 (SNMP v2 Conformance)

RFC 1905 (SNMP v2 Protocol Operations)

RFC 1906 (SNMP v2 Transport Mappings)

RFC 1907 (SNMP v2c)

RFC 1908 (SNMP v1/2 Coexistence)

RFC 2021 (RMON II Probe Config)

RFC 2154 (OSPF Digital Signatures)

RFC 2233 (Interfaces)

RFC 2236 (IGMP v2)

RFC 2328 (OSPF v2)

RFC 2338 (VRRP)

RFC 2362 (PIM-SM)

RFC 2570 (SNMP v3 Framework)

RFC 2571 (FrameWork)

RFC 2571-2575 (SNMP)

RFC 2576 (SNMP v1/2/3 Coexistence)

RFC 2578 (SMI v2 Structure)

## SPECIFICATIONS (continued)

RFC 2579 (SMI v2 Text Conventions)  
 RFC 2580 (SMI v2 Conformance)  
 RFC 2613 (Remote Network Monitoring MIB Extensions)  
 RFC 2618 (RADIUS Authentication Client)  
 RFC 2620 (RADIUS Accounting Client)  
 RFC 2644 (Restricted Directed Broadcast)  
 RFC 2665 (Pause Control)  
 RFC 2674 (VLAN MIB Extension)  
 RFC 2819 (RMON groups Alarm, Event, History and Statistics only)  
 RFC 2819 (RMON)  
 RFC 3410 (Management Framework)  
 RFC 3414 (SNMP v3 USM)  
 RFC 3415 (SNMP v3 VACM)  
 RFC 3416 (SNMP Protocol Operations v2)  
 RFC 3417 (SNMP Transport Mappings)  
 RFC 4188 (Bridge MIB)  
 SNMP v3 and RMON RFC support

### 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

### 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 SKU

3Com Switch 5500G-EI 24-Port	3CR17250-91
3Com Switch 5500G-EI 48-Port	3CR17251-91
3Com Switch 5500G-EI PWR 24-Port	3CR17252-91
3Com Switch 5500G-EI PWR 48-Port	3CR17253-91
3Com Switch 5500G-EI 24-Port SFP	3CR17258-91

### MODULES

3Com Switch 5500G-EI 8-Port 1000BASE-X (SFP)	3C17260
3Com Switch 5500G-EI 1-Port 10G (XENPAK)	3C17261
3Com Switch 5500G-EI 2-Port 10G (XFP)β	3C17268

### GIGABIT SFP TRANSCEIVERS

1000BASE-SX SFP	3CSFP91
1000BASE-LX SFP	3CSFP92
1000BASE-T SFP	3CSFP93
1000BASE-LH70 (70 km) SFP	3CSFP97

### FAST ETHERNET SFP TRANSCEIVERS

100BASE-FX SFP [Dual-Mode]ε	3CSFP9-81
100BASE-LX SFP [Dual-Mode]ε	3CSFP9-82

### 10-GIGABIT XENPAK TRANSCEIVERS

10GBASE-LX4 XENPAK	3CXENPAK91
10GBASE-LR XENPAK	3CXENPAK92
10GBASE-SR XENPAK	3CXENPAK94
10GBASE-CX4 XENPAK	3CXENPAK95
10GBASE-ER XENPAK	3CXENPAK96

### 10-GIGABIT XFP TRANSCEIVERS

10GBASE-LR XFP	0231A438
10GBASE-SR XFP	0231A494
10GBASE-CX4 XFPβ	3CXFP95
10GBASE-ER XFP	3CXFP96

### SPARE COMPONENTS

3Com Switch 5500G-EI PoE PSU 24	3C17264
3Com Switch 5500G-EI PoE PSU 48	3C17265
3Com Switch 5500G-EI PSU 24	3C17266
3Com Switch 5500G-EI PSU 48	3C17267

### CABLES

3Com Switch 5500G-EI Stacking Cable	3C17262
3Com Switch 5500G-EI 1.2m Stacking Cable	3C17263
3Com Switch 5500G-EI 5m Extended Stacking Cable	3C17269
CX4 Local Connection Cable – 50 cm	3C17775
CX4 Local Connection Cable – 100 cm	3C17776
CX4 Local Connection Cable – 300 cm	3C17777

### 3COM GLOBAL SERVICES

3Com Network Health Check, Installation Services,  
 and Express<sup>SM</sup> Maintenance [www.3com.com/services\\_quote](http://www.3com.com/services_quote)  
 3Com University Courses [www.3com.com/3comu](http://www.3com.com/3comu)

β Due to space constraints, the Switch 5500G 2-Port 10G (XFP) Module can accommodate only one 10GBASE-CX4 XFP.

ε Dual-mode 100BASE-X SFPs provide 100 Mbps fiber connectivity in the last two 1000BASE-X SFP ports of Switch 5500G models, and in all ports of the 8-Port 1000BASE-X SFP Module.

**Note:** Switch 5500G power supply units (PSUs) are changeable and upgradeable. Because of this flexibility, for unit identification purposes during registration and Service and Support, these non-orderable SKU references are used:

- 5500-G EI 24-port unit, irrespective of PSU 3CR17254-91
- 5500-G EI 48-port unit, irrespective of PSU 3CR17255-91
- 5500-G EI 24-port SFP unit, irrespective of PSU 3CR17259-91

Power supplies are identified using the SKUs under "Spare Components", above.

Visit [www.3com.com](http://www.3com.com) for more information about 3Com network solutions.

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400908-029 11/09

