3Com® Switch 8800 Family

DATA SHEET

A high-performance, multilayer modular switching platform for the most demanding Enterprise environments, driving secure, non-stop delivery of business applications

OVERVIEW

The 3Com® Switch 8800 Family of intelligent, multilayer modular LAN switches is ideal for enterprise environments where non-stop availability of critical applications and the highest performance, security and granular control are required.

These switches provide unparalleled investment protection for the enterprise with industry-leading scalability and flexible modular architecture, delivering high performance Gigabit and 10-Gigabit switching and routing.

The Switch 8800 Family enables end-to-end connectivity and network application control with three available chassis models—featuring 14, 10 and 7 slots—providing flexibility based on the switching capacity and interface port density required:

- Switch 8814: Highest capacity, 14-slot chassis, with two slots supporting dual load-sharing switch fabrics and 12 slots for any combination of switching I/O modules, supporting up to 48 10-Gigabit ports or 576 10/100/1000 ports.
- Switch 8810: 10-slot chassis, with two slots for load-sharing switch fabrics and eight slots for switching I/O modules, supporting up to 32 10-Gigabit ports or 384 10/100/1000 ports.
- Switch 8807: 7-slot chassis, with two slots for load-sharing switch fabrics and five slots for switching I/O modules, supporting up to 20 10-Gigabit ports or 240 10/100/1000 ports.

All chassis models share the same future-proof architecture, scalable up to 1.44 Terabits per second capacity, for maximum long term investment protection.

KEY BENEFITS

INTELLIGENT ENTERPRISE INFRASTRUCTURE

Enterprise network infrastructure is evolving dramatically, from the core to the edge of the network, with greater demands being placed on the entire network system to deliver:

- Highly intelligent, non-stop transport of data and access to information resources
- Guaranteed quality of service (QoS) for mission critical business applications, including Voice over IP (VoIP), storage and video
- Comprehensive security for network access control, encryption and protection of corporate resources
- Unprecedented levels of management visibility and granular control
- An open, standards-based architecture to enable seamless growth and future investment without proprietary lock-ins

The 3Com Switch 8800 has been designed to stand up to these challenges for the most demanding enterprise environments. The Switch 8800 delivers a comprehensive infrastructure solution that is highly resilient, intelligent, secure and scalable—one that is capable of adapting to the evolving needs of the enterprise.

RESILIENT ARCHITECTURE FOR BUSINESS CONTINUITY

With a highly resilient modular architecture, the Switch 8800 Family enhances business continuity by helping ensure availability of convergent enterprise applications including data, voice and video. All critical system components including power supplies, cooling fans and switch fabrics are redundant and hot-swappable, minimizing any impact to the enterprise in the event a single component should fail.

All Switch 8800 chassis models support the option for dual switch fabrics providing high resiliency and rapid failover—less than one second—to deliver the highest possible availability of network resources. With dual switch fabrics installed, both fabrics are active and load-sharing, ensuring resiliency as well as doubling effective system performance.

Changes in network topology due to device or link failures can lead to disruption of service for critical business applications. Rapid recovery from such topology changes is achieved with features such as Multiple Spanning Tree Protocol (MSTP), Rapid Spanning Tree Protocol (RSTP), Open Shortest Path First (OSPF) routing and Virtual Router Redundancy Protocol (VRRP).

APPLICATION CONVERGENCE: QOS AND POWER OVER ETHERNET

Real-time applications such as voice over IP (VoIP) demand high Quality of Service (QoS) and differentiated service levels to function properly. The 3Com Switch 8800 Family provides robust QoS and advanced traffic management features, allowing critical applications to be prioritized and serviced as the needs of the organization dictate.

Additionally, the Switch 8800 supports industry-standard IEEE 802.3af Power over Ethernet (PoE) to provide both electrical power and network connectivity to PoE-capable devices, such as IP telephones and wireless access points, making the switches ideal for large-scale enterprise edge deployment. PoE simplifies network deployment by eliminating the need for separate data and power infrastructures, significantly reducing installation and maintenance costs. PoE also provides greater flexibility for moves, adds and changes on the network, as powered network devices can be deployed or relocated anywhere an Ethernet connection is available without requiring a dedicated power outlet.

KEY BENEFITS
(CONTINUED)

ENTERPRISE-WIDE SECURITY

Security is paramount in today's enterprise and as dependency on information technology continues to rise, so does the need for highly secure IT systems and infrastructure. The 3Com Switch 8800 Family features advanced security capabilities, including user and device authentication, policy-based access controls, encrypted system management access and quarantine enforcement for containment of vulnerabilities and deliberate attacks.

The Switch 8800 provides secure network access using standard IEEE 802.1X along with with user- and device-based access control capabilities. RADIUS support enables user authentication, while the switch is also able to authenticate attached devices (printers, for example) via their MAC address for an additional level of endpoint security. Port- and VLAN-based Access Control Lists (ACLs) and dynamic traffic filtering capabilities can be deployed to further control access to network resources.

Additional security measures are enforced on access to switch management utilities via Secure Shell version 2 (SSH v2) and SNMP v3 with authentication and encryption of network management traffic.

The Switch 8800 family functions as an integral part of the 3Com Quarantine Protection solution to automate containment of security threats on the enterprise network. 3Com Quarantine integrates the industry-leading TippingPoint™ Intrusion Prevention System with switch-based endpoint enforcement at the network edge.

SCALABLE PERFORMANCE

With its 1.44 Terabits-per-second-capable backplane and wire-speed switching capacity, the Switch 8800 provides exceptional scalability for core, data center, distribution and edge environments within the enterprise. System performance and connectivity options can be tailored to each environment with a wide selection of switching modules, scaling up to 48 10-Gigabit ports or 576 Gigabit ports in a single chassis.

The flexible design of the Switch 8800 allows for any combination of switching modules to be used in a single system, allowing easy expansion of network capacity, accommodating a range of port densities and media types for 10-Gigabit and Gigabit Ethernet.

Installation of the optional second switch fabric increases performance from 360 Gbps to 720 Gbps, as the fabrics are load-sharing. Each switching I/O module provides on-board local multilayer switching, maximizing system performance and application response times; adding modules increases the aggregate system performance, to a maximum Layer 2/3 switching capacity of 428 Mpps. In addition, the backplane is designed to accommodate higher-performing switch fabrics.

Standards-based link aggregation (via IEEE 802.3ad) allows scalable, high-bandwidth interconnectivity between network devices, with the ability to aggregate multiple Gigabit or 10-Gigabit links together as a single "trunk". Link aggregation of ports is supported across modules within the Switch 8800 for virtually non-stop network availability.

KEY BENEFITS
(CONTINUED)

PRIORITIZATION AND TRAFFIC MANAGEMENT

Eight priority queues per port enable standard IEEE 802.1p Class of Service / Quality of Service (CoS/QoS). Protocol filtering and bandwidth rate limiting capabilities allow the Switch 8800 to enforce port-based controls for efficient use of network resources and prioritization of business-critical or time-sensitive applications, including Voice over IP (VoIP).

For example, protocols associated with key business applications can receive prioritized, high-bandwidth service, while protocols associated with non-critical (or even undesirable) applications can receive lower priority and bandwidth resources, or be blocked completely.

STANDARDS BASED INTEROPERABILITY AND INVESTMENT PROTECTION

Enterprises today rely on open standards-based technology solutions to enable interoperability among new and existing systems and to ensure that today's investments will continue to provide value well into the future without being locked-in to a particular vendor's products or technology.

3Com has designed the Switch 8800 with an open architecture, facilitating seamless growth and migration based on widely accepted international standards, free from costly lock-ins and the restrictions of proprietary approaches.

3Com's standards-based design philosophy—inherent in the Switch 8800 and all other 3Com products—provides investment protection as well as the flexibility to deploy "best-in-class" technology solutions which leverage industry standards.

ENTERPRISE CLASS MANAGEMENT AND CONTROL

The Switch 8800 system features independent channels for data and management control. A dedicated data channel provides high-speed data switching and packet forwarding, while a separate management channel provides control, monitoring, route learning and distribution. A comprehensive set of management features allows the Switch 8800 to provide enterprise-wide visibility and control to IT staff for configuration, network monitoring and advanced troubleshooting capabilities.

Management features are accessible via an intuitive command line interface (CLI), as well as by SNMP, with hierarchical access controls and password protection for secure management access. Additional management security is provided through user authentication and data encryption capabilities of SNMP v3 and SSH v2, further reducing the likelihood of unauthorized access or snooping of management traffic.

KEY BENEFITS (CONTINUED)

ETHERNET METRO AREA NETWORK

Ethernet Metro Area Networks (MANs) offer enterprises a compelling solution for linking diverse sites together over metropolitan area distances into a seamless Ethernet switched network. The simplicity and affordability of Ethernet, in comparison to legacy technologies used for metro area networks, have driven significant new Ethernet-based MAN deployments that will continue to accelerate.

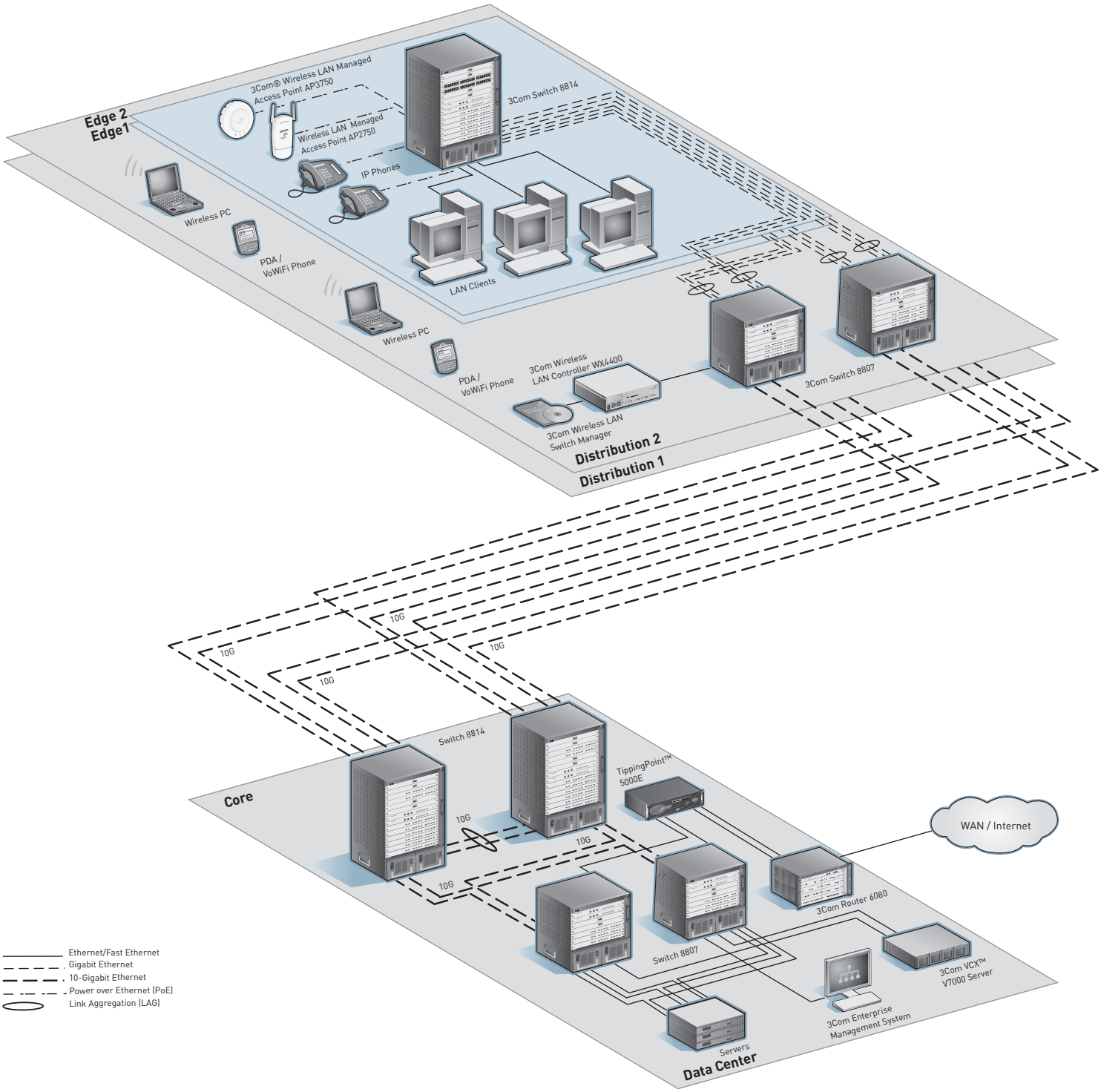
The Switch 8800 supports long range optical lasers on its Gigabit and 10-Gigabit Ethernet Modules for linking Switch 8800s across the metro area, as well as technologies like "Q-in-Q" encapsulation (VLAN VPN) and MPLS for creating IP-VPNs.

FEATURES

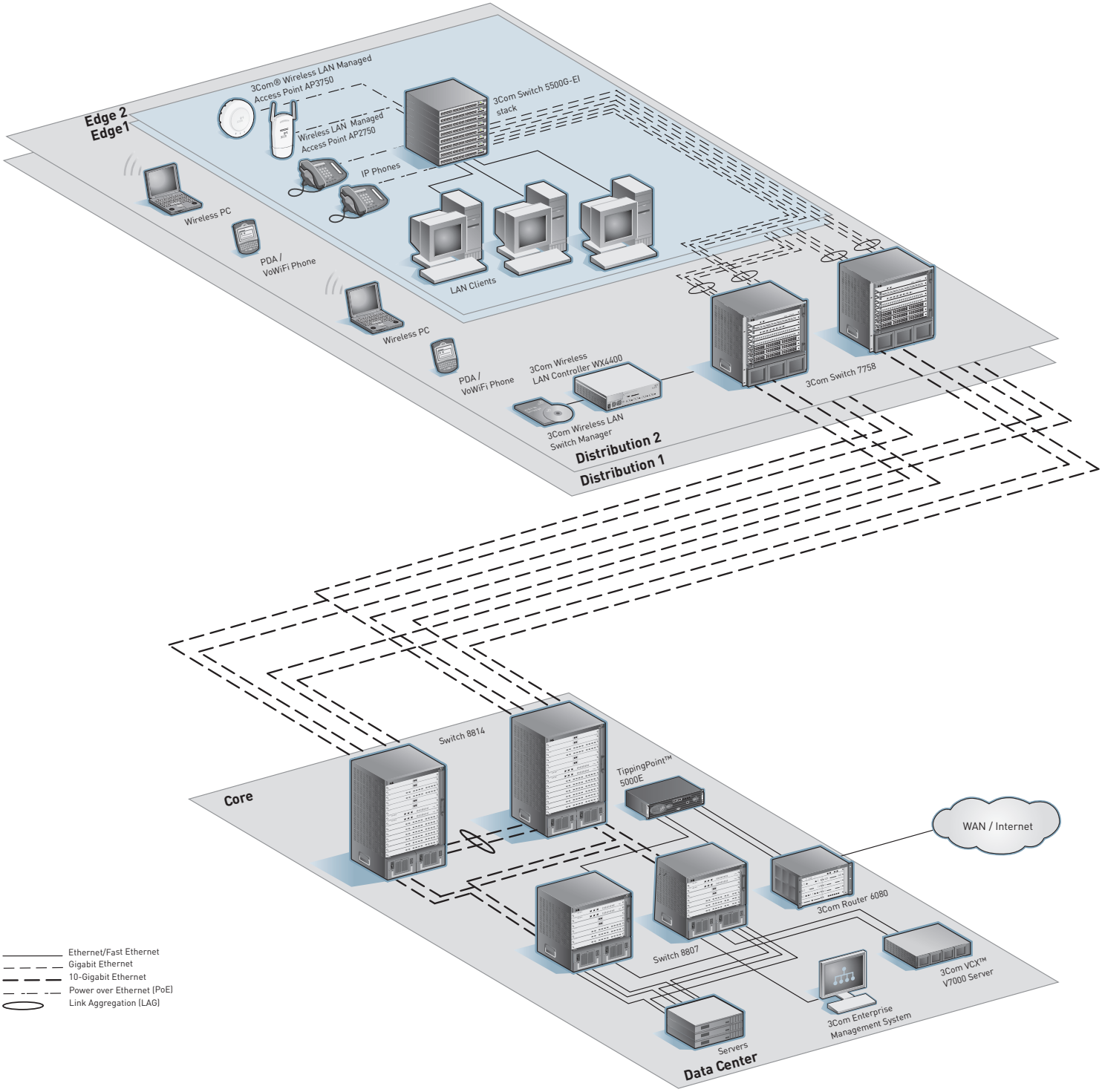
- Highly flexible, resilient architecture for end-to-end enterprise deployment in the core, data center, distribution layer and network edge.
- High-density multilayer switching for Gigabit and 10-Gigabit Ethernet.
- Up to 576 Gigabit or 48 10-Gigabit Ethernet ports.
- 720 Gbps system bandwidth; up to 428 Mpps switching capacity.
- Advanced traffic prioritization and routing of multicast traffic in hardware for convergent applications including voice over IP, streaming audio and video.
- Virtually non-stop operation with redundant power supplies, fans and switch fabrics, as well as hot-swappable switching I/O modules.
- Robust network access control and enterprise-wide security via standards-based IEEE 802.1X, RADIUS and MAC-based authentication and advanced Access Control Lists, as well as authentication and encryption of management traffic.
- Industry-standard Power over Ethernet to power IP phones, wireless access points and other devices; reduces implementation and maintenance costs.
- Unifies management and administration with a common operating system and centralized control available via 3Com Enterprise Management Suite.
- Granular QoS and traffic management for enhanced availability and performance of critical business applications.
- Extensive L2/3/4 switching and routing capability, including advanced features* like IS-IS, BGP-4 and MPLS, applicable in very large enterprises.

* Available in the 3Com Advanced Feature Software, at additional cost

SAMPLE CONFIGURATION A:
CORE-TO-EDGE DEPLOYMENT OF SWITCH 8800 FAMILY IN ENTERPRISE CAMPUS NETWORK



SAMPLE CONFIGURATION B:
CORE / DATA CENTER DEPLOYMENT OF SWITCH 8800 FAMILY IN ENTERPRISE CAMPUS NETWORK



SPECIFICATIONS

All information in this section is relevant to all members of the 3Com Switch 8800 Family, unless stated otherwise.

CAPACITIES AND PERFORMANCE

Switch 8814:
Two slots for switch fabrics; twelve payload slots

Backplane: 1.44 Tbps, max.

Bandwidth:

- 720 Gbps, max. (dual fabrics)
- 360 Gbps, max. (single fabric)

Throughput, aggregate: 428 Mpps, max.

Switch 8810:
Two slots for switch fabrics; eight payload slots

Backplane: 960 Gbps, max.

Bandwidth:

- 480 Gbps, max. (dual fabrics)
- 240 Gbps, max. (single fabric)

Throughput, aggregate: 286 Mpps, max.

Switch 8807:
Two slots for switch fabrics; five payload slots

Backplane: 600 Gbps, max.

Bandwidth:

- 300 Gbps, max. (dual fabrics)
- 150 Gbps, max. (single fabric)

Throughput, aggregate: 179 Mpps, max.

LAYER 2 SWITCHING

14K MAC addresses per I/O module, 168K MAC addresses per chassis max. (depending on VLAN configuration and number of I/O modules in chassis)

1K static MAC addresses

Modules forwarding (delay <10µs)

4096 VLANs (IEEE 802.1Q)

Port-based (IEEE 802.1Q) and protocol-based (IEEE 802.1v) VLANS

Dynamic VLAN assignment capability based on user/device authentication

GVRP (GARP VLAN Registration Protocol)

IEEE 802.3ad Link Aggregation, with support for aggregation groups across modules

Max. 31 link aggregation groups of 8 ports each; Advanced modules (or hybrid mix) provides max. 7 groups of 8 ports each

Auto-negotiation of port speed and duplex

IEEE 802.3x full-duplex flow control

Back-pressure flow control for half-duplex

Broadcast storm suppression per VLAN

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1S Multiple Spanning Tree Protocol instances (MSTP)

Single STP instance

BPDU (Bridge Protocol Data Unit) protection

Jumbo frames (up to 10K bytes)

Protocol-based VLANS

Super VLAN aggregation (RFC 3069)

Q-in-Q Tagging (VLAN VPN)

LAYER 3 SWITCHING

Hardware-based routing

128K routes; 256K routes on Advanced modules‡†

4K dynamic/static ARP (Address Resolution Protocol) max. entries per chassis (3K for user ports and 1K allocated for link aggregation); Advanced modules allow for 8K entries per I/O module (7K for user ports and 1K allocated for link aggregation), with 64K max. per chassis‡

1K IP interfaces

RIP (Routing Information Protocol), v1 and v2, 2K routes; supports Split Horizons

OSPF (Open Shortest Path First), v1 and v2, 80K entries; 80K routes on Advanced modules

ECMP (Equal Cost Multi-Path) for OSPF

BGP4 (Border Gateway Protocol 4)*

IS-IS (Intra-Domain Intermediate System to Intermediate System)*

Hardware-based multicast routing for wirespeed performance

4K multicast routes; 256 groups

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

IGMP v1 and v2

PIM-DM (Protocol Independent Multicast-Dense Mode)

PIM-SM (Protocol Independent Multicast-Sparse Mode)

Multicast BGP*

MSDP (Multicast Source Discovery Protocol)

Multiple multicast static addresses to support Microsoft ISA and other firewalls

DHCP Relay (Dynamic Host Configuration Protocol Relay)

TCP/IP protocol stack

IP v6 ready

MPLS (Multiprotocol Label Switching), with Layer 3 VPN, LDP (Label Distribution Protocol) and MBGP (Multiprotocol BGP) on Advanced modules*

VRRP (Virtual Router Redundancy Protocol): 256 virtual routers per switch; each virtual router supports 16 IP addresses

CONVERGENCE

Eight hardware queues per port

Flow-based QoS profiles

Ingress and egress

Remarking of packets based on priority:

- Selectable prioritization
- DSCP (Diffserv Code Point)
- Type of Service (ToS)
- IEEE 802.1p Class of Service (CoS)
- IP precedence
- Local precedence: physical port, source/destination MAC address, VLAN information, Ethernet type, Layer 3 protocol, source/destination IP address, DSCP, datagram type, IP Layer 4 protocol, IP Layer 4 ports

Flow-based bandwidth management

Flows identified through ACLs (Access Control Lists)

Configurable bandwidth granularity

RED (Random Early Detect/Discard)

Queuing algorithms

Strict Priority Queuing

WRR (Weighted Round Robin) provided through bandwidth management

IEEE 802.3af Power over Ethernet (PoE) support on 10/100/1000 ports

SECURITY

Network login with IEEE 802.1X user authentication

Local authentication and RADIUS authentication

TACACS+ (Terminal Access Controller Access Control System Plus) authentication*

Automatic assignment of VLAN based on user/device authentication

Wirespeed packet filtering in hardware

Supports a maximum of 12K ACL rules per system; 1K ACL rules per module

ACLs filter at Layers 2, 3 and 4:

- physical port
- source/destination MAC address
- VLAN information
- Ethernet type
- Layer 3 protocol
- source/destination IP address
- DSCP
- datagram type
- IP Layer 4 protocol
- IP Layer 4 ports

MD5 cipher-text authentication and clear-text authentication for OSPF v2 and RIP v2 packets and SNMP v3 traffic

Protection against DoS (Denial of Service) attacks which exploit protocols including IP, ARP and IEEE 802.1X/EAP

IEEE 802.1X user authentication on switch Telnet sessions

Hierarchical management and password protection for management interface

Encrypted management traffic using SSH v2* and SNMP v3*

‡ Chassis must be configured only with Advanced routing modules

† Support for 256K routes requires optional 1Gb memory upgrade kit (3C17518)

* Available in the 3Com Advanced Feature Software, at additional cost

SPECIFICATIONS (CONTINUED)

MANAGEMENT
CLI (Command Line Interface) configuration mode
Configuration via the console (control console) port
Local/remote configuration via Telnet
Remote configuration via modem dial-up
System configuration with SNMP v1, 2 and 3*
Comprehensive statistics
Port mirroring (one-to-one and many-to-one), supported across modules
RMON (Remote Monitoring) groups: statistics, history, alarm and events
ACL/QoS and IP interface statistics
System log
Syslog
Detailed alarm/debug information
Hierarchical alarms
Alarm generation and filtering
Statistics
Ping and Traceroute
Network Time Protocol (NTP)
Configuration file for backup and restore
System file transfer mechanisms: Xmodem, FTP, TFTP

GRAPHICAL MANAGEMENT
3Com Enterprise Management Suite: flexible, extensible management in advanced enterprise IT environments
3Com Network Director: comprehensive, turnkey network management; includes 3Com Switch Manager application for GUI-based management of Switch 8800 systems

CONNECTIVITY
Mix and match technologies and media types in available payload slots:
1-port 10GBASE-X (XENPAK) module
1-port, 2-port and 4-port 10GBASE-X (XFP) modules
12-port and 24-port 1000BASE-X (SFP) modules
24-port and 48-port 10/100/1000BASE-T (RJ-45) modules

DIMENSIONS
Switch 8814:
Height: 75.3 cm (29.6 in)
Width: 43.6 cm (17.2 in)
Depth: 48.0 cm (18.9 in)
Weight (fully loaded chassis): <120 kg (265 lbs)

Switch 8810:
Height: 61.9 cm (24.4 in)
Width: 43.6 cm (17.2 in)
Depth: 48.0 cm (18.9 in)
Weight (fully loaded chassis): <80 kg (176 lbs)

Switch 8807:
Height: 48.6 cm (19.1 in)
Width: 43.6 cm (17.2 in)
Depth: 48.0 cm (18.9 in)
Weight (fully loaded chassis): <65 kg (143 lbs)

POWER SUPPLY
1,200 W AC Power Supply:
Input voltage: 100-240 VAC auto-ranging
Operating frequency: 47-63 Hz
Max. current: 13.6 A at 110 VAC; 6.8 A at 200 VAC
Max. output power: 1,200 Watts
Max. input power: 1,500 Watts

2,000 W AC Power Supply:
Input voltage: 100-140 or 200-240 VAC auto-ranging
Operating frequency: 47-63 Hz
Max. current: 11.4 A at 110 VAC; 11.4 A at 200 VAC
Max. output power: 1,000 Watts at 110 V; 2,000 Watts at 220 V
Max. input power: 1,250 Watts at 110 V; 2,500 Watts at 220 V

Maximum power consumption:
Switch 8814: 1,620 Watts
Switch 8810: 1,130 Watts
Switch 8807: 760 Watts

ENVIRONMENTAL REQUIREMENTS
Operating temperature:
0° to 40°C (32° to 104°F)
Storage temperature:
-10° to 70°C (14° to 158°F)
Humidity (operating and storage):
10% to 90% non-condensing

Heat dissipation:
Switch 8814: 5,529 BTU/hr
Switch 8810: 3,857 BTU/hr
Switch 8807: 2,594 BTU/hr

MTBF
Switch 8807 / 8814 Fan Assembly (3C17503): 16 years (140,000 hours)
Switch 8810 Fan Assembly (3C17504): 13 years (114,000 hours)
Switch 8800 1,200W AC Power Supply (3C17506A): 17 years (150,000 hours)
Switch 8800 2,000W AC Power Supply (3C17507A): 17 years (150,000 hours)
Switch 8800 360 Gbps Fabric (3C17508): 28 years (241,000 hours)
Switch 8800 1-Port 10GBASE-X Module (3C17511): 20 years (175,000 hours)
Switch 8800 2-Port 10GBASE-X Module (3C17512): 34 years (295,000 hours)
Switch 8800 12-Port 1000BASE-X Module (3C17513): 58 years (504,000 hours)
Switch 8800 24-Port 1000BASE-X Module (3C17514): 43 years (380,000 hours)
Switch 8800 24-Port 10/100/1000BASE-T Module (3C17516): 35 years (304,000 hours)
Switch 8800 1-Port 10GBASE-X (XENPAK) Advanced Module (3C17525): 33 years (289,000 hours)
Switch 8800 4-Port 10GBASE-X (XFP) Module (3C17526): 26 years (228,000 hours)
Switch 8800 2-Port 10GBASE-X (XFP) Advanced Module (3C17527): 40 years (350,000 hours)
Switch 8800 48-Port 10/100/1000BASE-T Module (3C17528): 34 years (295,000 hours)
Switch 8800 24-Port 1000BASE-X (SFP) Advanced Module (3C17530): 35 years (305,000 hours)
Switch 8800 24-Port 10/100/1000BASE-T Advanced Module (3C17531): 35 years (305,000 hours)
Switch 8800 48-Port 10/100/1000BASE-T Access Module (3C17532): 36 years (315,000 hours)

IEEE STANDARDS SUPPORTED
IEEE 802.1D (STP)
IEEE 802.1p (CoS)
IEEE 802.1Q (VLANs)
IEEE 802.1S (MSTP)
IEEE 802.1v (VLANs)
IEEE 802.1w (RSTP)
IEEE 802.1X (Security)
IEEE 802.3ad (Link Aggregation)
IEEE 802.3ab (1000BASE-T)
IEEE 802.3ae (10G 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)

IETF STANDARDS
RFC 768 (UDP)
RFC 783/1350 (TFTP)
RFC 791/1349 (IP)
RFC 792/950 (ICMP)
RFC 793 (TCP)
RFC 826 (ARP)
RFC 919/ 922 (Broadcasting Internet Datagrams)
RFC 950 (Internet Standard Subnetting Procedure)
RFC 951 (BOOTP)
RFC 958 (SNTP)
RFC 959/ 2228/ 2640 (FTP)
RFC 1058 (RIP v1)
RFC 1112 (IGMP v1)
RFC 1142 (OSI IS-IS Intra-domain Routing Protocol)*
RFC 1155 (Structure and Identification of Management Information for TCP/IP-based Internets)
RFC 1195 and ISO10589-1992 (IS-IS)*
RFC 1256 (ICMP Router Discovery Messages)
RFC 1518/ 1519 (CIDR)
RFC 1542/ 2132/ 3442 (DHCP)
RFC 1587/ 3101 (OSPF NSSA option)
RFC 1723/ 2453/ (RIP v2)
RFC 1765 (OSPF Database Overflow)
RFC 1771 (BGP-4)*
RFC 1772 (BGP-4 Applicability)*
RFC 1812/ 2644 (IP v4)
RFC 1965/ 3065 (BGP AS Confederations)*
RFC 1997/ 1998 (BGP Communities Attributes)*
RFC 2131/3396 (DHCP)
RFC 2138/ 2865/ 2868/ 3575 (RADIUS Authentication)
RFC 2139/ 2866/ 2867 (RADIUS Accounting)

* Available in the 3Com Advanced Feature Software, at additional cost

SPECIFICATIONS (CONTINUED)

IETF STANDARDS, *CONTINUED*
RFC 2236 (IGMP v2)
RFC 2267/ 2827/ 3704 (Network Ingress Filtering)
RFC 2328 (OSPF v2)
RFC 2338/ 3768 (VRRP)
RFC 2362 (PIM-SM)
RFC 2370/ 3630 (OSPF Opaque LSA Option)
RFC 2385 (BGP – MD5)*
RFC 2439 (BGP Route Flap Damping)*
RFC 2474/ 3168 (Diffserv)
RFC 2475 (Architecture for Differentiated Service)
RFC 2547, 3031, 3036 (MPLS)*
RFC 2622 (Routing policy)
RFC 2644 (Change Default: Router Directed Broadcasts)
RFC 2715 (Interoperability: Multicast Routing Protocols)
RFC 2796 (BGP Route Reflection)*
RFC 2918 (Route Refresh for BGP-4)*
RFC 3069 (VLAN Aggregation)
RFC 3168 (Explicit Congestion Notification (ECN))

Management, including MIBs Supported
RFC 1155 (Structure and Mgmt Information (SMI v1))
RFC 1157 (SNMP v1/v2c)
RFC 1213/ 2011-2013 (MIB II)
RFC 1213, 1573 / 2233/ 2863 (MIB II)
RFC 1253/ 1850 (OSPF Version 2 MIB)
RFC 1493 (Bridge MIB)
RFC 1573/ 2233/ 2863 (Private IF MIB)
RFC 1657 (draft) (BGP4)*
RFC 1724 (RIP Version 2 MIB Extension)
RFC 1850 (OSPF Version 2 MIB Extension)
RFC 1901-1907/ 2578-2580/ 3416-3418 (SNMP v2c, SMI v2 and Revised MIB-II)
RFC 2233/ 3376 (Interfaces MIB)
RFC 2271/ 2571 (FrameWork)
RFC 2571-2575/ 3411-3415 (SNMP v3)*
RFC 2578-2580 (SMI v2)
RFC 2613 (Remote Network Monitoring MIB Extensions)
RFC 2618 (RADIUS Authentication Client MIB)
RFC 2620 (RADIUS Accounting Client MIB)
RFC 2665/ 3635 (Pause control)
RFC 2668/ 3636 (IEEE 802.3 MAU MIB)
RFC 2674 (VLAN MIB Extension)
RFC 2787 (VRRP MIB)
RFC 2819 (RMON MIB)

EMISSIONS / AGENCY APPROVALS
CISPR 22 Class A
FCC Part 15 Class A
EN 55022 Class A
ICES-003 Class A
AS/NZS 3548 Class A
EN 61000-3-2
EN 61000-3-3

IMMUNITY
Product conforms to:
EN 55024: 1998
EN 61000-4-2 to 61000-4-6, EN 61000-4-11

SAFETY AGENCY CERTIFICATIONS
UL 60950
IEC 60950-1:2001; all national deviations
EN 60950-1: 2001; all deviations
CAN/CSA-C22.2 No. 60950-1-03
NOM-019 SCFI, Mexico; AS/NZ TS-001 and 60950: 2000, Australia

FEATURES OF ADVANCED FEATURE SOFTWARE
SNMP v3 and SSH v2 encryption, with support for DES56 encryption; BGP4; IS-IS; TACACS+ authentication; MPLS

WARRANTY AND OTHER SERVICES
Limited Hardware Warranty for one year. Limited Software Warranty for 90 days. 90 days free telephone technical support.
Refer to www.3com.com/warranty for details.

* Available in the 3Com Advanced Feature Software, at additional cost

AGGREGATE SYSTEM CAPACITIES

	Switch 8814	Switch 8810	Switch 8807
Chassis slots			
Available slots (switch fabric and I/O)	14	10	7
Performance			
Switching capacity	428 Mpps	286 Mpps	179 Mpps
Fabric bandwidth:			
Single switch fabric	360 Gbps	240 Gbps	150 Gbps
Dual switch fabrics	720 Gbps	480 Gbps	300 Gbps
Total port capacity			
10-Gigabit Ethernet (XENPAK)	12	8	5
10-Gigabit Ethernet (XFP)	48	32	20
10-Gigabit Ethernet Advanced~ (XENPAK)	12	8	5
10-Gigabit Ethernet Advanced~ (XFP)	24	16	10
Gigabit Ethernet (10/100/1000)	576	384	240
Gigabit Ethernet PoE§ (10/100/1000)	576	384	240
Gigabit Ethernet (SFP)	288	192	120
Gigabit Ethernet Advanced~ (10/100/1000)	288	192	120
Gigabit Ethernet Advanced~ (SFP)	288	192	120

~ Advanced routing modules have capacity for 256K routes and MPLS support (with optional 3Com Advanced Feature Software)
§ Power over Ethernet (PoE) using 48-port 10/100/1000 Ethernet module; requires optional PoE components to be installed

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, local 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 remain strong and competitive.

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 engineer(s) 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℠ Maintenance Service	This service provides comprehensive on-site support and includes advance hardware replacement, telephone technical support and software upgrades
3Com Express℠ 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

For additional information, please visit www.3com.com/services

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
Chassis Kits	
3Com Switch 8814 Chassis Kit *(chassis, one power supply, two fan assemblies; fabric ordered separately)*	3C17540§
3Com Switch 8810 Chassis Kit *(chassis, one power supply, fan assembly; fabric ordered separately)*	3C17541§
3Com Switch 8807 Chassis Kit *(chassis, one power supply, fan assembly; fabric ordered separately)*	3C17543§
Switch Fabric	
3Com Switch 8800 360 Gbps Fabric	3C17508
Modules	
3Com Switch 8800 1-Port 10GBASE-X (XENPAK)	3C17511
3Com Switch 8800 1-Port 10GBASE-X (XENPAK) Advanced	3C17525
3Com Switch 8800 2-Port 10GBASE-X (XFP)	3C17512
3Com Switch 8800 2-Port 10GBASE-X (XFP) Advanced	3C17527
3Com Switch 8800 4-Port 10GBASE-X (XFP)	3C17526
3Com Switch 8800 12-Port 1000BASE-X (SFP)	3C17513
3Com Switch 8800 24-Port 1000BASE-X (SFP)	3C17514
3Com Switch 8800 24-Port 1000BASE-X (SFP) Advanced	3C17530
3Com Switch 8800 24-Port 10/100/1000BASE-T Advanced	3C17531
3Com Switch 8800 24-Port 10/100/1000BASE-T	3C17516
3Com Switch 8800 48-Port 10/100/1000BASE-T	3C17528
3Com Switch 8800 48-Port 10/100/1000BASE-T Access	3C17532
Software	
3Com Switch 8800 Advanced Feature Software	3CR1752193 V2
Transceivers	
3Com 1000BASE-SX SFP	3CSFP91
3Com 1000BASE-LX SFP	3CSFP92
3Com 1000BASE-T SFP	3CSFP93
3Com 1000BASE-LH70 (70km) SFP	3CSFP97
3Com 10GBASE-LR XENPAK	3CXENPAK92
3Com 10GBASE-ER XENPAK	3CXENPAK96
3Com 10GBASE-LR XFP	3CXFP92
3Com 10GBASE-SR XFP	3CXFP94
3Com 10GBASE-ER XFP	3CXFP96
Power over Ethernet (PoE) Components	
3Com Switch 8800 External PoE Power Rack	3C17509
3Com Switch 7750/8800 PoE Power Supply Unit	3C16884
3Com Switch 8800 PoE Option (PoE DIMM Module)	3C17529
3Com Switch 8800 PoE Entry Module	3C17510
Spare Components	
3Com Switch 8807 / 8814 Fan Assembly	3C17503
3Com Switch 8810 Fan Assembly	3C17504
3Com Switch 8800 1,200W AC Power Supply	3C17506A§
3Com Switch 8800 2,000W AC Power Supply	3C17507A§
3Com Switch 8800 1Gb Memory Upgrade	3C17518
3Com Global Services	
3Com Network Health Check, Installation Services, and Express Maintenance	www.3com.com/services_quote
3Com University Courses	www.3com.com/3comu

§ Country-specific code must be used when ordering.

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400884-012 10/06