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.
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.
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 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 (SSHv2) and SNMPv3 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 SNMPv3 and SSHv2, further reducing the likelihood of unauthorized access or snooping of management traffic.
Ethernet Metropolitan 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.

**KEY BENEFITS**

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

Diagram with various network components and connections.
**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

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

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**

- 12K MAC addresses per I/O module; 64 K MAC addresses per system
- 5K 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
- Maximum 31 link aggregation groups of eight ports each
- Auto-negotiation of port speed and duplex
- IEEE 803.3x 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 (VLAN Aggregation, RFC 3069)
- Q-in-Q Tagging (VLAN VPN)

**LAYER 3 SWITCHING**

- Hardware based routing
- 128K routes; 256k routes on Advanced Routing Modules
- 5K static routes
- 4K dynamic / static ARP (Address Resolution Protocol) entries
- 1K IP interfaces
- RIP (Routing Information Protocol), v1 and v2, 2K routes; supports Split Horizons
- OSPF (Open Shortest Path First), v1 and v2, 8K entries; 128k routes on Advanced Routing Modules
- ECMP (Equal Cost Multi-Path) for OSPF
- BGP4 (Border Gateway Protocol)*, 128k routes; 256k routes on Advanced Routing Modules
- IS-IS (Intra-Domain Intermediate System to Intermediate System), 13K routes
- 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
- GMRP (GARP Multicast Registration Protocol)
- PIM-DM (Protocol Independent Multicast-Dense Mode)
- PIM-SM (Protocol Independent Multicast-Sparse Mode)
- 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
- ARP
- IPv6 ready
- MPLS (Multiprotocol Label Routing), with Layer 3 VPN, Layer Distribution Protocol (LDP), and Multiprotocol BGP (MBGP) on Advanced Routing 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 (Differentiated Service 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 protocol
  - Layer 4 protocol, IP Layer 4 ports
- Flow-based bandwidth management
- Flows identified through Access Control Lists (ACLs)
- Configurable bandwidth granularity
- Random Early Detect/Discard (RED)
- 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
- Wire-speed 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 RIPv2 packets and SNMP v3 traffic
- Protection against denial of service (DoS) attacks which exploit protocols including IP, ARP, and 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"
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, v2, and v3
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

POWER SUPPLY
1,200 W AC Power Supply:
Input voltage: 100-240 VAC auto-ranging
Operating frequency: 47-63 Hz
Maximum current: 13.6 A at 110 VAC; 6.8 A at 200 VAC
Maximum output power: 1,200 Watts
Maximum 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
Maximum current: 11.4 A at 110 VAC; 11.4 A at 200 VAC
Maximum output power: 1,000 Watts at 110 V; 2,000 Watts at 220 V
Maximum 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-Port 10GBASE-X (XENPAK) module (3C17516): 43 years (380,000 hours)
Switch 8800 24-Port 10GBASE-X Module (3C17512): 34 years (295,000 hours)
Switch 8800 12-Port 1000BASE-X Module (3C17511): 20 years (175,000 hours)
Switch 8800 2-Port 10GBASE-X Module (3C17514): 43 years (380,000 hours)
Switch 8800 24-Port 1000BASE-X Module (3C17514): 43 years (380,000 hours)
Switch 8800 2-Port 10GBASE-X Module (3C17525): 33 years (289,000 hours)
Switch 8800 4-Port 10GBASE-X Module (3C17526): 26 years (228,000 hours)
Switch 8800 2-Port 1GBASE-X Module (3C17523): 40 years (350,000 hours)
Switch 8800 2-Port 10GBASE-X Module (3C17528): 34 years (295,000 hours)
Switch 8800 24-Port 100BASE-X (SFP) Advanced Module (3C17530): 35 years (305,000 hours)
Switch 8800 24-Port 100BASE-T Advanced Module (3C17531): 35 years (305,000 hours)
Switch 8800 48-Port 100BASE-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 (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 766 (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 930 (Internet Standard Subnetting Procedure)
RFC 951 (BOOTP)
RFC 952 (SNTP)
RFC 959/2288/2640 (FTP)
RFC 1058 (RIP v1)
RFC 1112 (IGMP v1)
RFC 1142 (OSI IS-IS Intra-domain Routing Protocol)*
RFC 1153 (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 (RIP 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 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 1901-1907/2378-2580/3416-3418 (SNMP v2c, SMI v2 and Revised MIB-II)
- RFC 2231/3376 (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
- EN 61000-4-2 to 61000-4-6, EN 61000-4-11
- IEC 60950-1:2001; all national deviations
- CAN/CSA-C22.2 No. 60950-1-03
- NOM-019 SCTFI, 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

**IMMUNITY**
- Limited Hardware Warranty for one year. Limited Software Warranty for ninety (90) days. See www.3com.com/warranty for details.

**AGGREGATE SYSTEM CAPACITIES**

<table>
<thead>
<tr>
<th></th>
<th>Switch 8814</th>
<th>Switch 8810</th>
<th>Switch 8807</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chassis slots</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available slots</td>
<td>14</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>(switch fabric and I/O)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switching capacity</td>
<td>428 Mpps</td>
<td>286 Mpps</td>
<td>179 Mpps</td>
</tr>
<tr>
<td>Fabric bandwidth:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single switch</td>
<td>360 Gbps</td>
<td>240 Gbps</td>
<td>150 Gbps</td>
</tr>
<tr>
<td>fabric</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual switch fabrics</td>
<td>720 Gbps</td>
<td>480 Gbps</td>
<td>300 Gbps</td>
</tr>
<tr>
<td><strong>Total port capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-Gigabit Ethernet</td>
<td>576</td>
<td>384</td>
<td>240</td>
</tr>
<tr>
<td>(XENPAK)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-Gigabit Ethernet</td>
<td>288</td>
<td>192</td>
<td>120</td>
</tr>
<tr>
<td>Advanced‡ (XENPAK)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-Gigabit Ethernet</td>
<td>288</td>
<td>192</td>
<td>120</td>
</tr>
<tr>
<td>Advanced‡ (XFP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gigabit Ethernet</td>
<td>288</td>
<td>192</td>
<td>120</td>
</tr>
<tr>
<td>PoE (10/100/1000)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gigabit Ethernet (SFP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gigabit Ethernet</td>
<td>288</td>
<td>192</td>
<td>120</td>
</tr>
<tr>
<td>Advanced‡ (10/100/1000)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gigabit Ethernet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced‡ (SFP)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

‡ 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
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 GuardianSM Maintenance Service**  
This service provides comprehensive on-site support, and includes advance hardware replacement, telephone technical support, and software upgrades

**3Com ExpressSM 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](http://www.3com.com/services)
<table>
<thead>
<tr>
<th>Product Description</th>
<th>3Com SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Starters Kits</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8814 Starter Kit (consisting of chassis, one power supply, two fan assemblies, and switch fabric)</td>
<td>3C17500A-xx</td>
</tr>
<tr>
<td>3Com Switch 8810 Starter Kit (consisting of chassis, one power supply, fan assembly, and switch fabric)</td>
<td>3C17501A-xx</td>
</tr>
<tr>
<td>3Com Switch 8807 Starter Kit (consisting of chassis, one power supply, fan assembly, and switch fabric)</td>
<td>3C17502A-xx</td>
</tr>
<tr>
<td><strong>Modules</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8800 1-Port 10GBase-X (XENPAK)</td>
<td>3C17511</td>
</tr>
<tr>
<td>3Com Switch 8800 1-Port 10GBase-X (XENPAK) Advanced</td>
<td>3C17525</td>
</tr>
<tr>
<td>3Com Switch 8800 2-Port 10GBase-X (XFP)</td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8800 2-Port 10GBase-X (XFP) Advanced</td>
<td>3C17527</td>
</tr>
<tr>
<td>3Com Switch 8800 4-Port 10GBase-X (XFP)</td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8800 12-Port 1000Base-X (SFP)</td>
<td>3C17513</td>
</tr>
<tr>
<td>3Com Switch 8800 24-Port 1000Base-X (SFP)</td>
<td>3C17514</td>
</tr>
<tr>
<td>3Com Switch 8800 24-Port 1000Base-X (SFP) Advanced</td>
<td>3C17530</td>
</tr>
<tr>
<td>3Com Switch 8800 24-Port 10/100/1000Base-T Advanced</td>
<td>3C17531</td>
</tr>
<tr>
<td>3Com Switch 8800 48-Port 10/100/1000Base-T Advanced</td>
<td>3C17532</td>
</tr>
<tr>
<td>3Com Switch 8800 48-Port 10/100/1000Base-T Access</td>
<td>3C17532</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8800 Advanced Feature Software (v2)</td>
<td>3CR1752193</td>
</tr>
<tr>
<td><strong>Transceivers</strong></td>
<td></td>
</tr>
<tr>
<td>3Com 1000Base-SX SFP</td>
<td>3C5FP91</td>
</tr>
<tr>
<td>3Com 1000Base-LX SFP</td>
<td>3C5FP92</td>
</tr>
<tr>
<td>3Com 1000Base-T SFP</td>
<td>3C5FP93</td>
</tr>
<tr>
<td>3Com 1000Base-LH70 (70km) SFP</td>
<td>3C5FP97</td>
</tr>
<tr>
<td>3Com 10GBase-LR XENPAK</td>
<td>3CXENPAK92</td>
</tr>
<tr>
<td>3Com 10GBase-ER XENPAK</td>
<td>3CXENPAK96</td>
</tr>
<tr>
<td>3Com 10GBase-LR XFP</td>
<td>3CXFP92</td>
</tr>
<tr>
<td>3Com 10GBase-SR XFP</td>
<td>3CXFP94</td>
</tr>
<tr>
<td>3Com 10GBase-ER XFP</td>
<td>3CXFP95</td>
</tr>
<tr>
<td><strong>Power over Ethernet (PoE) Components</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8800 External PoE Power Rack</td>
<td>3C17509</td>
</tr>
<tr>
<td>3Com Switch 7750/8800 PoE Power Supply Unit</td>
<td>3C14884</td>
</tr>
<tr>
<td>3Com Switch 8800 PoE Option (PoE DIMM Module)</td>
<td>3C17529</td>
</tr>
<tr>
<td>3Com Switch 8800 PoE Entry Module</td>
<td>3C17510</td>
</tr>
<tr>
<td><strong>Spare Components</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Switch 8807 / 8814 Fan Assembly</td>
<td>3C17503</td>
</tr>
<tr>
<td>3Com Switch 8810 Fan Assembly</td>
<td>3C17504</td>
</tr>
<tr>
<td>3Com Switch 8800 1,200W AC Power Supply</td>
<td>3C17506A-xx</td>
</tr>
<tr>
<td>3Com Switch 8800 2,000W AC Power Supply</td>
<td>3C17507A-xx</td>
</tr>
<tr>
<td>3Com Switch 8800 360 Gbps Fabric</td>
<td>3C17508</td>
</tr>
<tr>
<td>3Com Switch 8800 1Gb Memory Upgrade</td>
<td>3C17518</td>
</tr>
<tr>
<td><strong>3Com Global Services</strong></td>
<td></td>
</tr>
<tr>
<td>3Com Network Health Check, Installation Services, and Express Maintenance</td>
<td><a href="http://www.3com.com/services_quote">www.3com.com/services_quote</a></td>
</tr>
<tr>
<td>3Com University Courses</td>
<td><a href="http://www.3com.com/3comu">www.3com.com/3comu</a></td>
</tr>
</tbody>
</table>

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