



## DATA SHEET

# 3Com® Switch 7700

## Key Benefits

### Scalability

Scales to 288 Fast Ethernet and 48 Gigabit Ethernet ports, with support for future 10 Gigabit. Helps scale XRN™ technology solutions to larger networks through its interoperability with XRN Distributed Fabrics. Provides future-proofed switching for your enterprise.

### Performance

Provides up to 96 Gbps switching performance with local switching on each blade. Helps reduce congestion in the core of the network, improving application response times when accessing data across the network.

### Prioritize Converged and other Business-Critical Traffic

Advanced policy-based Class of Service/Quality of Service (CoS/QoS), eight priority queues, committed access rates, and bandwidth limiting and filtering enables identification and prioritization of business-critical traffic, such as voice, for optimal network performance. Routing of multicast traffic in hardware on the Switch 7700 helps enable maximum performance for streamed voice and video data.

### Network Level Availability

Helps minimize network down-time, providing a robust platform capable of supporting VoIP traffic. Enable rapid disaster recovery with resilient links, link aggregation, Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Open Shortest Path First (OSPF), and Virtual Router Redundancy Protocol (VRRP).

Redundant chassis architecture supports power supplies, fans and hot-swappable switching modules for virtually non-stop operation.

### Security

Radius Network Login and Access Control Lists provide secure network access control at the core of the network. Layer 3 protocols and management can be authenticated, preventing unauthorized configuration of the network.

### Network Control

Layer 2 switching functionality supports hardware-based packet filters, virtual LANs (VLANs), and RMON support for greater network control.

### Advanced Layer 3 Support

Provides multiprotocol routing support of IP and multicast traffic control through IGMP and PIM SM/DM routing, for logical network segmentation and secure communication.

### Flexibility

Modular design of the Switch 7700 enables additional modules to be inserted as, and when, the network grows. Provides a range of port densities and media types for connections of 10 to 1000 Mbps, with fiber or copper cabling requirements.

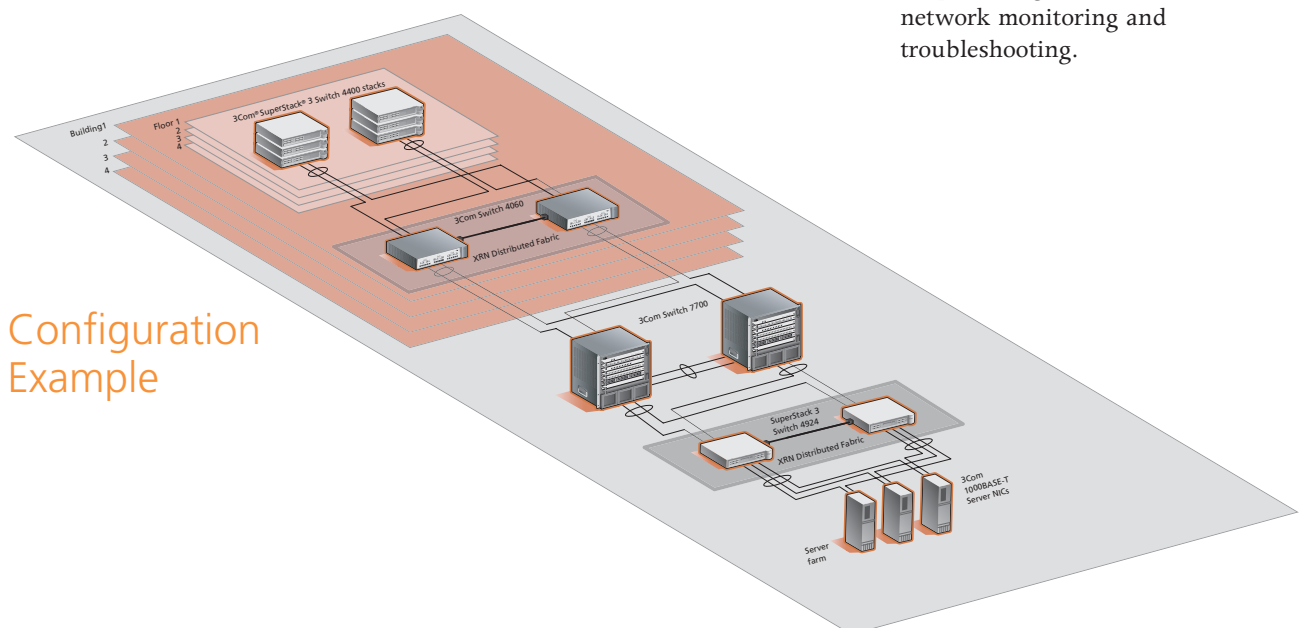
The 3Com® Switch 7700 modular LAN switch delivers high-performance, multi-layer, Gigabit and Fast Ethernet switching and routing in a scalable, flexible, modular chassis. The integrated platform makes it the ideal aggregator for any network, but especially 3Com XRN™ networks, where it enables no-single-point-of-failure designs to be scaled to many thousands of users. The resilient systems architecture helps provide business network continuity for data and voice convergence applications—required in demanding core and campus environments.

The Switch 7700 supports IP (RIP, OSPF) and IGMP PIM (DM and SM) multicast routing for logical network segmentation and traffic control. Advanced QoS Features provide differentiated network services based on traffic classification, DiffServ Code Points, IEEE 802.1p tags, traffic bandwidth limitation, and bandwidth guarantee. Layer 2 features such as VLANs (port-based and standards-based IEEE 802.1Q) and IEEE 802.1p traffic prioritization are supported for advanced control of network traffic.

These features can provide optimal priority queuing of network data, helping ensure minimal congestion of important traffic, while also routing, in the hardware for optimal performance, the specific multicast traffic used for voice and video streaming.

Fault-tolerant aggregation features in the Switch 7700 include Virtual Router Redundancy Protocol (VRRP), Rapid Spanning Tree Protocol (RSTP), Spanning Tree Protocol (STP), and link aggregation for virtually non-stop network availability. The architecture of the Switch 7700 supports a passive backplane and optional redundant power supplies for seamless network operation.

The Switch 7700 provides backbone aggregation scaling up to 288 Fast Ethernet ports or up to 48 Gigabit ports, with support for future 10 Gigabit. The network can be secured from unauthorized access through 802.1X RADIUS Network Login, Access Control Lists and management authentication. The chassis supports most cabling requirements and offers comprehensive management for simple configuration and advanced network monitoring and troubleshooting.



Configuration Example

## Specifications

### Performance

Backplane: 96 Gbps  
 Bandwidth: 64 Gbps, max  
 Throughput: 48Mpps, max  
 Layer 3: 64 interfaces, IP routing  
 at 48 Mpps, 64k IP routing  
 entries

### Dimensions

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):  
 <60 kg (133 lbs)

### Power Supply

550 W AC Power Supply  
 Input voltage: 100-240 VAC  
 autoranging  
 Operating frequency: 47-63 Hz  
 Maximum current: 15A at 110  
 VAC; 7A at 200 VAC

### Environmental Requirements:

Operating temperature:  
 0° to 40°C (32° to 104°F)  
 Operating humidity:  
 10% to 90% noncondensing  
 Storage temperature:  
 -10° to 70°C (14° to 158°F)  
 Storage humidity:  
 10% to 90% noncondensing

### Security:

RADIUS IEEE 802.1X  
 Access Control Lists (ACL)  
 Packet filtering

### Industry Standards Supported

Administration Protocols  
 UDP (RFC 768)  
 IP (RFC 791)  
 ICMP (RFC 792)  
 TCP (RFC 793)  
 ARP (RFC 826)  
 VRRP  
 OSPF  
 RIP v1 and v2

### Ethernet Protocols

IEEE 802.1D  
 IEEE 802.1p  
 IEEE 802.1Q  
 IEEE 802.1w  
 IEEE 802.1X  
 IEEE 802.3ae  
 IEEE 802.3i  
 IEEE 802.3u  
 IEEE 802.3x  
 IEEE 802.3z

### MIBs Supported

MIB II (RFC 1213)  
 SNMP MIB (RFC 1157)  
 Bridge MIB (RFC 1493)  
 Entity MIB (RFC 2037)  
 Ethernet MIB (RFC 1398)  
 VRRP MIB  
 RMON MIB (RFC 1757)  
 RMON-1 (up to 4 groups)  
 OSPF MIB  
 IGMP MIB  
 Router MIB  
 LEC MIB  
 Interface MIB (RFC 1573)

### Emissions / Agency Approvals

FCC Part 15 Subpart B Class A  
 EN 55022 Class A  
 EN 50082-1  
 ICES 003 Class A  
 VCCI Class A  
 AS/NZS 3548 Class A  
 EN 61000-3-2  
 EN 61000-3-3

### Safety Agency Certifications

EN/IEC/UL 60950  
 CSA 22.2 No. 950  
 NOM-019 SCFI, Mexico; AS/NZS  
 60950:2000, Australia; Russian  
 GOST safety approval

### Management

SNMP and Telnet support  
 Multiple agents with single  
 management entry point  
 RMON-1, SMON  
 Statistics gathering and  
 reporting  
 Interfaces: 10BASE-T (RJ-45)  
 Ethernet, RS-232 control port

### Warranty

Limited Hardware Warranty for  
 one year. Limited Software  
 Warranty for ninety (90) days.  
 See [www.3com.com/warranty](http://www.3com.com/warranty)  
 for details.

## Ordering Information

### Starter Kit

3Com Switch 7700 7-slot Gigabit Starter Kit	3C16850
<i>(consisting of chassis, power supply, fan assembly, and switching fabric)</i>	

### Modules

3Com Switch 7700 8-port 1000BASE-X (GBIC modules sold separately)	3C16858
3Com Switch 7700 8-port 10/100/1000BASE-T (RJ-45 connectors)	3C16859
3Com Switch 7700 48-port 10/100BASE-TX (RJ-45 connectors)	3C16860
3Com Switch 7700 24-port 100BASE-FX (MT-RJ connectors)	3C16861

### GBICs

3Com SX GBIC	3CGBIC91
3Com LX GBIC	3CGBIC92
3Com 1000BASE-T GBIC	3CGBIC93
3Com LH70 (70km) GBIC	3CGBIC97

### Spare Components

3Com Switch 7700 AC Power Supply	3C16854
3Com Switch 7700 7-slot Fan Assembly	3C16856
3Com Switch 7700 Gigabit Ethernet Switching Fabric	3C16857



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To learn more about 3Com solutions, visit [www.3com.com](http://www.3com.com). 3Com Corporation is publicly traded on NASDAQ under the symbol COMS.

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