

3Com® OfficeConnect Managed Switch 9 Family

DATA SHEET



- Advanced, enterprise-class, managed compact Switch with wirespeed performance and flexible uplink options
- Full SNMP management, advanced security and Power over Ethernet support make it ideal for enterprise branch office or small workgroup applications
- Small compact and fanless design makes it suitable for small offices or confined spaces
- Choose from two Gigabit uplink models for copper or fiber (with support for legacy or Gigabit fiber)

Key Benefits

Performance

Enterprise-class, wirespeed, branch office or small workgroup managed Layer 2 10/100 switching with 8 10/100 ports and flexible Gigabit uplink capabilities. Two models are available: both have 8 10/100 copper ports. In addition, the OfficeConnect Managed Switch 9 has a built-in 10/100/1000 Copper Gigabit Uplink while the OfficeConnect Managed Switch 9 FX offers a choice of a built-in 100Base-FX port and an SFP slot that can accommodate 1000BASE-LX and SX transceiver modules.

Security and convergence

Advanced security for network data and the management traffic controlling a network. User network login with IEEE 802.1x and RADIUS authentication, provide secure network access control at the edge of the network. Further

enhancing security, authenticated users can be automatically placed into a specific VLAN, restricting access only to the data they need. Secure Shell (SSH) encryption of login passwords, management VLANs, and management station "trusted IP address" lists help protect the network from rogue management threats.

Furthermore, the switches support Power over Ethernet on port 1, 2, 5 and 6. This allows seamless integration of Wireless Access Points and VoIP phones.

Network Control

Network management is available through an embedded web and command line interface (CLI), or via an SNMP management station. Supported by the range of 3Com management offerings including 3Com Network Supervisor.

Overview

3Com OC Managed switches provide wirespeed 10/100 Fast Ethernet switching specifically designed for small Enterprise workgroup and branch office environments. This award-winning switch family boasts advanced Quality of Service features that can reduce the latency of packets through the network, with specific traffic prioritization improving the delivery of converged data such as voice and high quality video over IP.

The switch family has great deployment flexibility, with two choices for Gigabit uplinks. The most economical choice (OfficeConnect Managed Switch 9) provides a fixed 10/100/1000 Gigabit copper uplink while customers who require support for greater distances or legacy fiber support can deploy the OfficeConnect

Switch Managed Switch 9 FX which offers the choice of a built-in 100Base-FX port and an SFP slot that can accommodate 1000BASE-LX or SX transceiver modules.

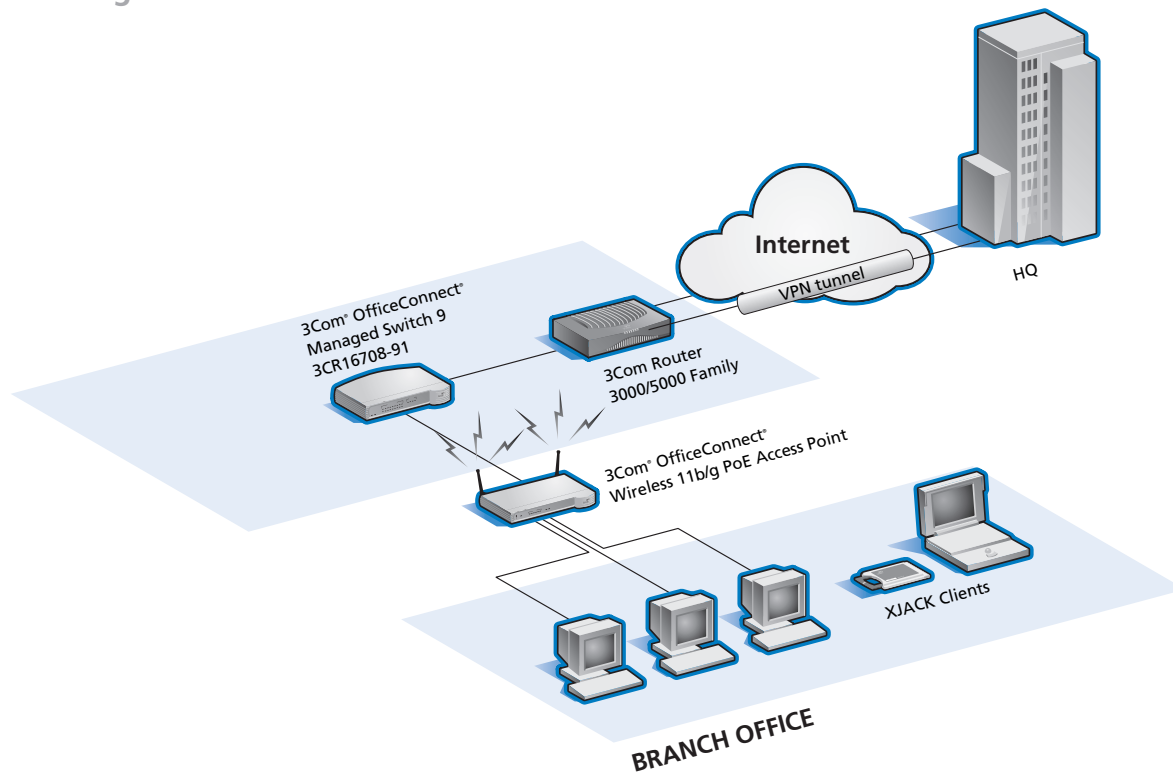
Security is of the utmost importance for a network, and the OfficeConnect Managed Switch 9 family is a strong contributor to this for workgroups and branch offices. IEEE 802.1x network login ensures all users are authorized before being granted access to any network resource. User authentication is carried out using any standards-based RADIUS server, avoiding any proprietary authentication mechanisms.

3Com backs these products with a 3-year hardware warranty and an Advanced Hardware Replacement policy.

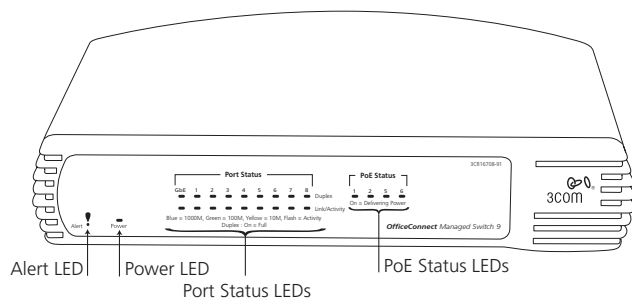
Features and Benefits

PERFORMANCE	
	3.6 Gbps switching capacity 2.69 Mpps forwarding rate
LAYER 2 SWITCHING	
MAC Address	8K MAC addresses
VLAN	60 VLANs (IEEE 802.1Q)
Auto-negotiation	Auto-negotiation of port speed, duplex, and connection (MDI/MDIX)
Traffic control	IEEE 802.3x full-duplex flow control Back pressure flow control for half-duplex Broadcast Storm Suppression (3,000 pps default threshold)
Spanning Tree	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) • Fast-start mode • Spanning tree enable/disable per port
Multicast Snooping	IGMP v1, v2 IGMP Querier Filtering for 128 multicast groups
CONVERGENCE	
Priority Queues	Four hardware queues per port Weighted Round Robin queuing
Traffic Prioritization	CoS Marking / Remarking IEEE 802.1p to DSCP mapping Auto classification of 3Com NBX® telephony traffic Priority based on: • IEEE 802.1p CoS • DSCP (DiffServ Code Point) • TCP/UDP source or destination port number • Default port priority • IP Address / Protocol
Traffic Shaping	Egress rate limiting, port-based: • 1 Mbps increments (10/100 ports) • 8 Mbps increments (Gigabit ports) Application and protocol blocking
Power over Ethernet	Port 1, 2, 5 and 6 supports IEEE 802.af
SECURITY	
Network Login	IEEE 802.1X with RADIUS authentication
Management	Web interface (HTTP and HTTPS) Command line interface (Serial, Telnet and SSH) SNMP
MANAGEMENT	
Remote Management	SNMP v1, v2 and v3 User-selectable management VLAN
Software	Backup and restore TFTP configuration: download TFTP agent: download
Configuration	Command line Serial RJ45 TELNET Web-based SNMP
Mirror port / RAP (Roving Analysis Port)	One-to-one
RMON (Remote Monitoring)	Statistics, history, alarm, events, filter and capture
IP address allocation	DHCP, Manual
Network Time Protocol (NTP) with peer-to-peer authentication	Provides an accurate and consistent timestamp to all switches within the intranet. This feature is important in multiple branch office deployment

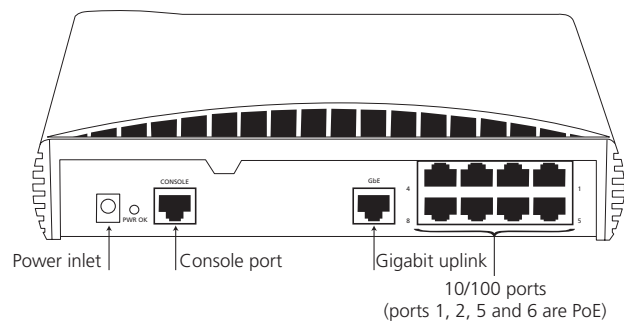
Network Diagram



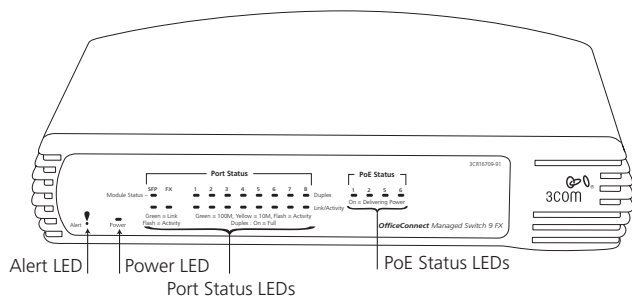
3Com OfficeConnect Managed Switch 9 Front and Rear



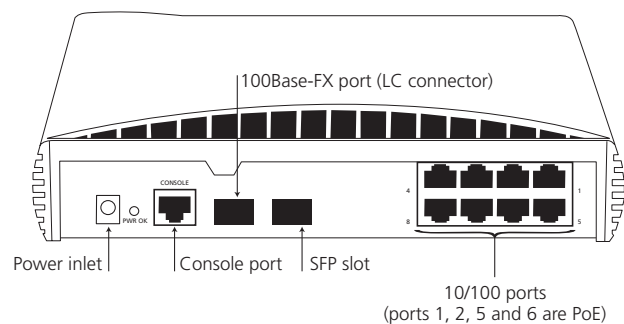
Front panel LEDs



3Com OfficeConnect Managed Switch 9 FX Front and Rear



Front panel LEDs



Specifications

Connectors

8 auto-negotiating 10BASE-T/100BASE-TX ports configured as Auto MDI/MDIX

OfficeConnect Managed Switch 9: 1 auto-sensing 1010BASE-T/100BASE-TX/1000BASE-T configured as Auto MDI/MDIX

OfficeConnect Managed Switch 9 FX: 1 100BASE-FX (LC connector) and 1 SFP module slots (see supporting transceiver modules)

RS232 console port

Security

Radius (RFC 2865, RFC 2869) Session accounting (RFC 2866)

SSHv2 (SSH Secure Shell, 'PuTTY', OpenSSH)
IEEE 802.1x network login

Performance

3.6 Gbps switching capacity

2.69 Mpps forwarding rate

8,000 MAC addresses

Reliability

TBD (MTBF @ 40°C)

Dimensions

Height: 57.9 mm (2.3 in.)

Width: 229 mm (9.0 in.)

Depth: 185.4 mm (7.3 in.)

Weight: 1.0 kg (approx)

Operating temperature:

0° to 40°C (32° to 122°F)

Storage Temperature:

-40° to +70°C (-40° to +158°F)

Operating Humidity:

10% to 90% relative humidity noncondensing

Standards: EN60068 (IEC68)

Safety Agency Certifications

UL60950-1, EN60950-1, CSA 22.2 No. 60950-1, IEC 60950-1

Emissions

CISPR 22 Class A, EN55022 Class A,
FCC Part 15 Subpart B Class A,
ICES-003 Class A, AS/NZS 3548 Class A,
EN61000-3-2, EN61000-3-3

Immunity

EN 55024

Heat Dissipation:

15 Watts maximum (51 BTU/hour maximum)

Power Supply

Power Inlet 12V DC $\pm$ 5%

provided by in-line adapter

AC Line Frequency 50/60 Hz

Input Voltage Options 100–240 VAC

Current Rating 3.5 A (amps) (maximum)

SNMP Standards

SNMP protocol (RFC 1157)

MIB-II (RFC 1213)

Bridge MIB (RFC 1493)

RMON MIB (RFC 2819, Groups 1, 2, 3, 7, 8, 9)

RMON MIB II (RFC 2021)

Remote Monitoring MIB (RFC 1757)

MAU MIB (RFC 2239)

Protocols Used for Administration

UDP (RFC 768)

IP (RFC 791)

ICMP (RFC 792)

TCP (RFC 793)

ARP (RFC 826)

TFTP (RFC 783)

DHCP (RFC 2131, RFC 2132, RFC 1534)

Management

Web interface Command line interface

SNMP compatibility

Management through 3Com management applications

- 3Com Network Supervisor

- 3Com Network Director

Warranty

3 years Hardware Warranty. Limited Software Warranty for ninety (90) days. Advanced Hardware Replacement

See www.3com.com/warranty for details.

Ordering Information

PRODUCT DESCRIPTION	SKU
3Com OfficeConnect Managed Switch 9	3CR16708-91
3Com OfficeConnect Managed Switch 9 FX	3CR16709-91
<i>Supported modules:</i>	
3Com 1000BASE-SX SFP Transceiver	3CSFP91
3Com 1000BASE-LX SFP Transceiver	3CSFP92



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To learn more about 3Com solutions, visit www.3com.com. 3Com is publicly traded on NASDAQ under the symbol COMS.

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