



DATA SHEET

3Com® SuperStack® 3 Switch 3824

Key Benefits

Fixed configuration
10/100/1000
switches offering
unbeatable
performance and
value

Affordability

Entry-level Layer 2 10/100/1000 LAN switching solution delivers versatile wirespeed Gigabit performance in an affordable, flexible package.

Flexibility

24 built-in copper Gigabit ports, including four dual-purpose ports supporting copper links or SFP mini-GBIC adapters for easy, flexible connection to fiber-based Gigabit media.

Resiliency

Supports Rapid Spanning Tree Protocol for fast network recovery, and link aggregation of up to eight Gigabit ports for high capacity uplink connections.

Performance

Forwarding rates up to 35.7 million pps and switching capacity of 48 Gbps.

The new generation SuperStack 3 Switch 3824 offers a fixed configuration 10/100/1000 LAN switch for networks requiring industry-leading switching performance. It combines this high performance with comprehensive functionality and plug-and-play installation—all at a reasonable price.

The SuperStack 3 Switch 3824 delivers standard Layer 2 10/100/1000 features as well as wirespeed performance. These switches operate straight out of the box, allowing users to be easily added to the network in minutes.

Easy Management

3Com® Network Supervisor configures, maps, and monitors the system and provides custom alerts and reports.

Plug-and-Play Configuration

Tri-speed operation at 10-, 100-, and 1000 Mbps permits easy migration of your network to Gigabit speeds; automatic IP assignment and cable detection as well as auto-negotiation gets the SuperStack 3 Switch 3824 up and running quickly for easy out-of-the-box operation.

Limited Lifetime Hardware Warranty

Includes fan and power supply; ensures peace of mind. See www.3com.com/warranty for details.

This 24-port switch includes four dual-purpose ports that can be operated as copper Gigabit 10/100/1000 ports or used with built-in SFP mini-GBIC ports, supporting other Gigabit media types. The device supports advanced resiliency features such as IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.3ad Link Aggregation (LACP).

Specifications

Connectors

24 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX

Four of the above ports can be configured as SFP (mini-GBIC) ports accommodating 1000BASE-SX or 1000BASE-LX SFPs

RS232 console port

Layer 2 Features

Spanning Tree Protocol

IEEE 802.1w Rapid Spanning Tree Protocol

Port security (MAC address learning)

IEEE 802.1Q: 255 VLANs

IEEE 802.3ad (LACP) link aggregation (maximum six trunks, eight ports per trunk)

IGMP v1 and v2 support

Port Mirroring

Performance

Switching capacity: 48 Gbps

Forwarding rate: 35.7 Mpps

Wirespeed performance

16,000 MAC addresses supported

Reliability

MTBF @ 25°C: 60,000 hours

MTBF @ 40°C: 40,000 hours

Traffic Management

Eight priority queues per port

IEEE 802.1p CoS

DSCP Field Classification

Dimensions

Height: 43.6 mm (1.7 in or 1U)

Width: 440 mm (17.3 in)

Depth: 325 mm (12.7 in)

Weight: 4 kg (8.8 lb)

Environmental Requirements

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

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

Operating Humidity: 10% to 95% relative humidity noncondensing

Standards: EN60068 (IEC68)

Safety Agency Certifications

UL 60950-1

EN60950-1

IEC 60950-1

CSA2.2 No. 60950-00,

NOM-019 SCFI

AS/NZS 60950

Emissions

ICES-003 Class A

FCC Part 15 Class A

EN55022:1998 + A1: 2000 Class A

VCCI Class A

CISPR 22:1995 Class A

EN61000-3-2: 2000

EN61000-3-3: 1995 + A1: 2001

CNS 13438 Class A

Korean EMI Class A

Immunity: EN55024

Heat Dissipation:

60 W maximum
(205 BTU/hr maximum)

Power Supply

AC Line Frequency 50/60 Hz

Input Voltage 90-240 VAC

Current Rating:
2.3A maximum

Management

SNMP compatibility

3Com Network Supervisor (trial copy provided on accompanying CD)

Four RMON groups (statistics, history, event, alert)

DHCP IP address assignment

TFTP and Serial Interface Software upgrade supporting dual images

Backup/Restore via TFTP

Statistics

Web interface management

Command line interface management optimized for quick setup and recovery

Industry Standards Supported

Administration Protocols
UDP (RFC 768)

IP (RFC 791)

ICMP (RFC 792)

TCP (RFC 793)

ARP (RFC 826)

Ethernet Protocols

IEEE 802.1D

IEEE 802.1p

IEEE 802.1Q

IEEE 802.1w

IEEE 802.3

IEEE 802.3a

IEEE 802.3ab

IEEE 802.3ad

IEEE 802.3z

MIBs Supported

MIB II (RFC 1213)

Bridge MIB (RFC 1493)

RMON MIB (RFC 1757)

Hardware Warranty

Limited Lifetime Warranty.

Includes fan and power supply.

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

Ordering Information

3Com SuperStack 3 Switch 3824 24-port 10/100/1000 with four SFP (mini-GBIC) ports (SFPs sold separately)	3C17400
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SFPs (mini-GBICs)	
3Com 1000BASE-SX SFP Transceiver	3CSFP91
3Com 1000BASE-LX SFP Transceiver	3CSFP92

Optional Accessories

3Com Network Supervisor Advanced Package	3C15201A
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