3Com® SuperStack® 3 Switch 4400 Family

Key Benefits

Shared Features

Technology Leading
Feature rich workgroup switching with stacking and flexible Gigabit uplink options.

Performance
Tolly-tested high-performance forwarding rates of up to 6.6 million pps (24-port), or 10.1 million pps (48-port).

Scalable
Stacking architecture supports up to 192 10/100 ports managed as a single entity, with high-speed trunks between workgroups and network resources.

Flexibility
Optional modules provide stacking or additional high-bandwidth ports.

IEEE 802.3ad Link Aggregation
Intelligently detects duplicity and uses it to trunk up to 4Gb of bandwidth across a stack, along with removing any single point of failure from the networks edge infrastructure.

Resilient and Fault Tolerant
Resilient and hot-swappable stacking and resilient network connections improve non-stop network operation.

Practical Management Software
Supported by 3Com Network Supervisor application, enabling easy network administration and reporting.

Limited Lifetime Warranty
Limited Lifetime hardware warranty includes fan and power supply. See www.3com.com/warranty for details.

Enhanced Features (Model Dependent)

Advanced Class of Service Support
Multilayer packet classification capabilities allow prioritization of critical traffic, while freeing bandwidth by eliminating unwanted protocols and applications from the network.

Backup & Restore
Switch settings can be captured at a 'snapshot' in time, and reapplied across a network or individually to a single switch at a push of a button.

Security & Accounting
IEEE 802.1X RADIUS network login security coupled with DUD provides secure network access control at the perimeter of the network; the accounting server records network usage on a per-user basis.

Power Forwarding Model
The SuperStack® 3 Switch 4400 PWR provides Power over Ethernet (IEEE 802.3af) to power remote phones, wireless access points, and 3Com IntelliJack™ Switches and Network Jacks over standard Ethernet wiring, saving money and installation time.

Fiber Connectivity Model
The Switch 4400 FX offers 24 100BASE-FX ports in the same highly compact 1U form factor. Distances of up to 2Km can be reached over standard multimode fiber optic cable, which provides excellent physical layer security as no electromagnetic fields are produced around the cables, making data impervious to attempts to eavesdrop.
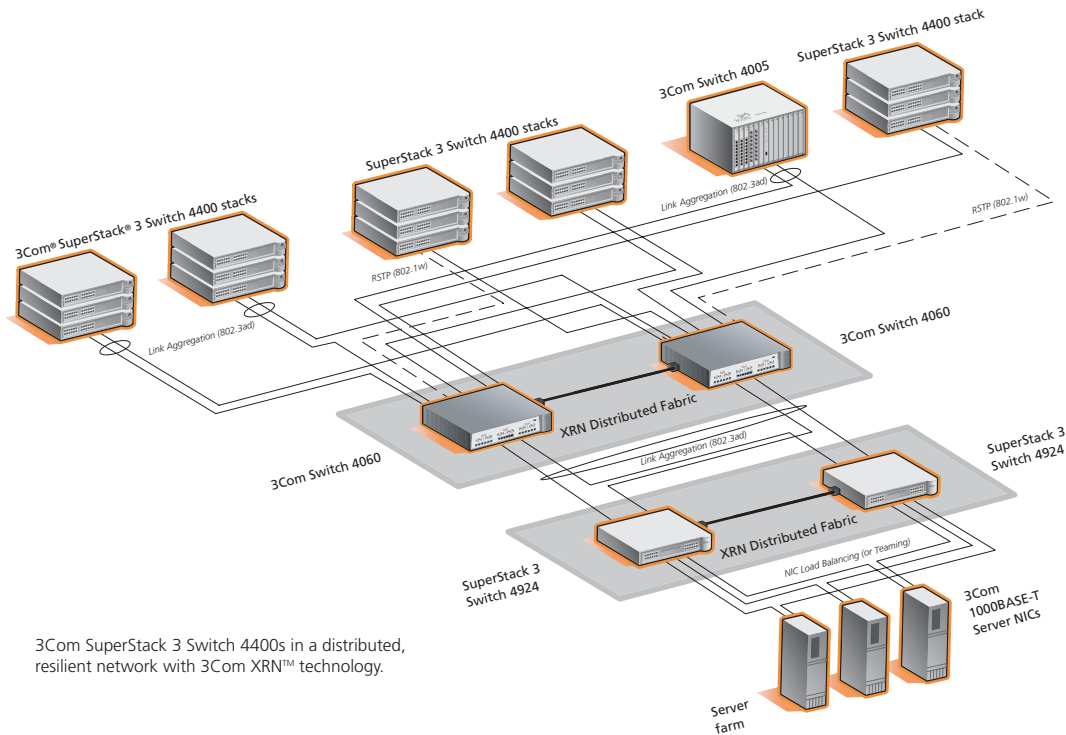
Advanced, affordable 10/100 networking solutions

The 3Com SuperStack 3 Switch 4400 family delivers high-performance 10/100 Ethernet switching on an easy to use, value-adding platform. Five models address a variety of advanced, enterprise-level switching requirements.

The models SuperStack 3 Switch 4400 24-port and Switch 4400 48-port come with shared and enhanced features ready for today's most demanding 10/100 Ethernet switching applications. Its traffic prioritization features, specially enhanced to automatically recognize NBX voice telephony traffic, make them ideal for running Voice over IP traffic. A fiber version of the 24-port model, the Switch 4400 FX, is also available.
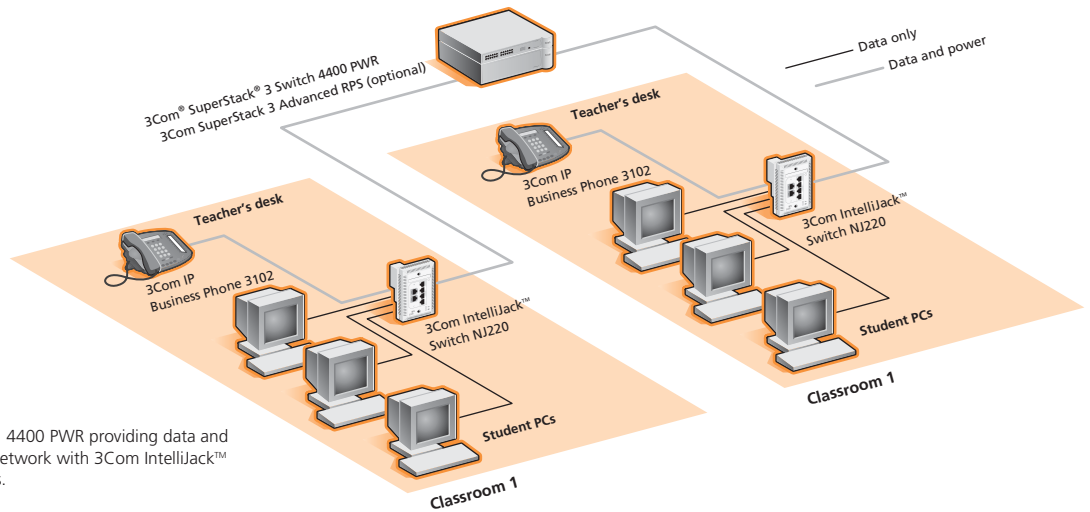
The SuperStack 3 Switch 4400 PWR 24-port delivers compliant Power over Ethernet for downstream devices such as wireless access points, IP telephones and the unique 3Com IntelliJack Switch and Network Jack, an "in the wall" switch.

The SuperStack 3 Switch 4400 SE has a low entry-point cost, for Layer 2 only features, but can be easily upgraded to enhanced features such as traffic prioritization and network login security. This is ideal for accounts looking to save in deployment cost but wish to preserve the flexibility to upgrade to enhanced features at a later date.

3Com SuperStack 3 Switch 4400s in a distributed, resilient network with 3Com XRN™ technology.

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3Com SuperStack 3 Switch 4400 PWR providing data and Power over Ethernet to a network with 3Com IntelliJack™ Switches and IP telephones.

Feature Matrix

Features	3Com SuperStack 3 Switch 4400 24-Port	3Com SuperStack 3 Switch 4400 48-Port	3Com SuperStack 3 Switch 4400 PWR	3Com SuperStack 3 Switch 4400 FX	3Com SuperStack 3 Switch 4400 SE
10/00 Ports	24	48	24 (with PoE)	24 (fiber)	24
Uplink Options	100BASE-FX 1000BASE-SX 1000BASE-LX 1000BASE-T	100BASE-FX 1000BASE-SX 1000BASE-LX 1000BASE-T	100BASE-FX 1000BASE-SX 1000BASE-LX 1000BASE-T	100BASE-FX 1000BASE-SX 1000BASE-LX 1000BASE-T	100BASE-FX 1000BASE-SX 1000BASE-LX 1000BASE-T
Resilient Stacking (with stacking module)	Yes	Yes	Yes	Yes	Yes
Stacking Compatibility (10/100)	Up to 192 total ports of 4400-24, 4400-48, 4400 PWR, and 4400 FX	Up to 192 total ports of 4400-24, 4400-48, 4400 PWR, and 4400 FX	Up to 192 total ports of 4400-24, 4400-48, 4400 PWR, and 4400 FX	Up to 192 total ports of 4400-24, 4400-48, 4400 PWR, and 4400 FX	Up to 192 total ports of 4400-SE
Stack-Wide Trunking	Yes	Yes	Yes	Yes	Yes
Multilayer Traffic Classification / Prioritization	Yes	Yes	Yes	Yes	Upgradeable
IEEE 802.1X Network Login Security	Yes	Yes	Yes	Yes	Upgradeable
IEEE 802.3af Power over Ethernet	N/A	N/A	Yes	N/A	N/A
Configuration Backup / Restore	Yes	Yes	Yes	Yes	Upgradeable

Tolly Verified for Switch Interoperability.
For details, see http://www.tolly.com/TVDetail.aspx?ProductID=93

Tolly Certified: Layer 2/4 Fast Ethernet Switch Performance Evaluation and Layer 2 Interoperability.
For details, see http://www.3com.com/other/pdfs/products/en_US/ss4400_tolly.pdf and
http://www.3com.com/other/pdfs/products/en_US/tolly_test_4400.pdf, respectively.

Specifications

Connectors

24[1] or 48 auto-negotiating 10BASE-T/100BASE-TX ports configured as Auto MDI/MDIX

24 auto-negotiating In-Line Power 10BASE-T /100BASE-TX ports configured as Auto MDI/MDIX (24-port PWR only)

24 100BASE-FX ports (24-port FX only)

2 module slots accommodating media modules or stacking modules

All fiber connectors are MT-RJ

Advanced Redundant Power System Type 2A connector

Advanced Redundant Power System Type 3 connector (24-port PWR only)

RS232 console port

Security

Radius (RFC 2865, RFC 2869)

Session accounting (RFC 2866)

DUD – Device Unauthorized Disconnect

IEEE 802.1X network login

Stacking

Up to 192 10/100 front panel ports

Mix and match Switch 4400 24-port (3C17203), 4400 48-port (3C17204), 4400 PWR (3C17205), and 4400 FX (3C17210)

Stack Switch 4400 SE (3C17206) only with other like units

Traffic Management

Four priority queues per port

IEEE 802.1p CoS

DiffServ[2]

Application/protocol blocking[2]

Performance

24-port

8.8 Gbps forwarding bandwidth

6.6 million packets per second

8,000 MAC addresses supported

48-port

13.6 Gbps forwarding bandwidth

10.1 million packets per second

8,000 MAC addresses supported

Reliability

(MTBF @ 40˚C)

24-port: 254,024 hours

24-port PWR: 233,451 hours

24-port FX: 227,969 hours

48-port: 180,700 hours

Dimensions

Height: 43.6 mm (1.7 in or 1U)

Width: 440 mm (17.3 in)

Depth:
24-port PWR: 304 mm (12.0 in)
24-port FX: 270 mm (10.6 in)
all others: 274 mm (10.8 in)

Weight:
24-port: 2.8 kg (6.2 lb)
24-port PWR: 4.6 kg (10.1 lb)
24-port FX: 2.7 kg (6.0 lb)
48-port: 3.2 kg (7.1 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 90% relative humidity noncondensing

Standards: EN60068 (IEC68)

Safety Agency Certifications

24-port: UL1950, EN60950, CSA22.2 No. 950, IEC 60950

24-port PWR, 24-port FX, and 48-port: UL60950, EN60950, CSA2.2 No. 60950, IEC 60950

Emissions

EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, AS/NZS 3548 Class A, CNS 13438 Class A

CISPR 22 CLASS A, EN61000-3-2,

EN61000-3-3 (24-port PWR only)

Immunity: EN55024

Heat Dissipation:
24-port: 100 W maximum (341 BTU/hr maximum)
24-port PWR: 275 W maximum (938 BTU/hr maximum)
24-port FX: 105 W maximum (358 BTU/hr maximum)
48-port: 120 W maximum (410 BTU/hr maximum)

Power Supply

AC Line Frequency 50/60 Hz

Input Voltage 90-240 VAC

Current Rating:
24-port: 2.3A maximum
48-port: 2.8A maximum

SNMP Standards

SNMP Protocol (RFC 1157)

MIB-II (RFC 1213)

Bridge MIB (RFC 1493)

RMON MIB II (RFC 2021)

Remote Monitoring MIB (RFC 1757)

Interface MIB (2233)

MAU MIB (RFC 2668)

PoE MIB (3FC 484) (24-port PWR only)

Management

Trial copy of 3Com Network Supervisor provided on accompanying CD

Web interface management

Command line interface management

SNMP compatibility

[1] 24-port specifications refer to Switch 4400 24-Port (3C17203), Switch 4400 24-Port PWR (3C17205), Switch 4400 24-Port FX (3C17210), and Switch 4400 SE 24-Port (3C17206), unless otherwise noted.

[2] Switch 4400 SE requires Enhanced Software Upgrade, 3C17207, to perform these functions.

Ordering Information

3Com SuperStack 3 Switch 4400 24-port	3C17203
3Com SuperStack 3 Switch 4400 48-port	3C17204
3Com SuperStack 3 Switch 4400 PWR	3C17205
3Com SuperStack 3 Switch 4400 SE 24-port	3C17206
3Com SuperStack 3 Switch 4400 FX	3C17210

Optional Modules and Accessories

3Com SuperStack 3 Switch 4400 Enhanced Software Upgrade	3C17207
3Com SuperStack 3 Switch 4400 1000BASE-T Module	3C17220
3Com SuperStack 3 Switch 4400 1000BASE-SX Module	3C17221
3Com SuperStack 3 Switch 4400 100BASE-FX Module	3C17222
3Com SuperStack 3 Switch 4400 1000BASE-LX Module	3C17223

3Com SuperStack 3 Switch 4400 Stacking Kit	3C17227

(Two stacking modules and cable to stack two Switch 4400s—see stacking specifications above for restrictions)

3Com SuperStack 3 Switch 4400 Stack Extender Kit	3C17228

(One stacking module, one cascade module and one cable for adding more Switch 4400s to an existing Switch 4400 stack—see stacking specifications above for restrictions)

3Com SuperStack 3 Advanced Redundant Power System	3C16071B
3Com SuperStack 3 Advanced RPS Type 2A module	3C16074A
3Com SuperStack 3 Advanced RPS Type 3 module	3C16075

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