



SuperStack II Hub 100

Stackable Fast Ethernet Hub

A flexible, easy-to-configure 100BASE-T hub for economical, high-speed connections in departmental LANs

SuperStack II Hub 100 combines the economy and convenience of a stackable hub with 100 Mbps Fast Ethernet performance. You can use SuperStack II Hub 100 hubs along with other 3Com SuperStack or SuperStack II devices to provide a variety of connectivity options in departmental and remote site LANs. The Hub 100 is available for 100BASE-TX or 100BASE-T4.

SuperStack® II Hub 100 hubs combine the performance advantages of 100 Mbps Fast Ethernet technology with the manageability, flexibility, and economy of a stackable hub platform.

SuperStack II Hub 100 is stackable, allowing you to keep your initial Fast Ethernet investment low while enabling you to increase port

density, enhance system reliability, and add SNMP management. Because they are part of 3Com's SuperStack system architecture, SuperStack II Hub 100 hubs can be integrated with a full range of other network devices, technologies, and services in one managed stack. All types of Fast Ethernet (TX, T4, FX) can be supported in one stackable system.

Key Benefits:

- **Enhanced performance.** Full 100 Mbps connectivity significantly boosts network performance. Stackability provides high port density at low cost.
- **SNMP-based RMON management.** The optional SuperStack II Hub 100 Management Unit delivers full SNMP management using Remote Monitoring (RMON) to reduce network traffic and enhance network analysis. 3Com's Transcend® application lets you administer hub ports and network interface cards (NICs) together as one system.
- **End-to-end Fast Ethernet.** 3Com offers a full line of Fast Ethernet network devices—hubs, switches, NICs, and routers—for building flexible, cost-effective high-speed networks.
- **Flexible backbone connections.** A 100BASE-TX transceiver module with an RJ-45 connector for Category 5 UTP wiring, or a 100BASE-FX transceiver module with a 62.5/125µ SC fiber connector permits a wider range of backbone/downlink connections.
- **SuperStack systems.** 3Com's SuperStack systems let you combine hubs, switches, routers, and a redundant power system in one robust, easily managed stack.
- **Support for TX or T4.** Hub 100 TX and T4 hubs can be stacked together to easily support any category of UTP cable.
- **Support for Class II.** Hub 100 TX hubs support extended network distances, greater port density per segment, and more flexible connectivity options for Fast Ethernet hubs.





Simple, Economical Fast Ethernet Connections

SuperStack II Hub 100 hubs make it easy to improve the performance of Ethernet LANs to 100 Mbps throughput without a high initial upgrade cost.

SuperStack II Hub 100 hubs are available in two versions: the Hub 100 TX (Class II) and the Hub 100 T4 (Class I). You can stack up to eight Hub 100 TX hubs and Hub 100 T4 hubs, yielding up to 104 unmanaged ports per stack. You also can connect two Hub 100 TX (Class II) hub stacks, yielding 206 unmanaged ports.

SuperStack II Hub 100 hubs can operate seamlessly with existing 10BASE-T Ethernet LANs using 3Com's SuperStack II products, including the Switch 1000 Ethernet/Fast Ethernet switch or Switch 3000 Fast Ethernet switch.

Comprehensive Management

The optional SuperStack II Hub 100 Management Unit lets you manage up to seven stacked Hub 100 TX or Hub 100 T4 hubs, extending SNMP control across 91 ports. Two managed Hub 100 TX (Class II) stacks can be connected to yield 180 managed ports.

A combination of SmartAgent® intelligent agents and smart ASICs in each device take on much of the burden of managing and polling. This decreases the computational load at the management console and reduces management traffic on the backbone and WAN.

Among the management options offered with 3Com hubs are Transcend WorkGroup Manager and Transcend Enterprise Manager for Windows or

UNIX. Transcend features include a full set of software tools for configuring, monitoring, and troubleshooting network devices. Using a unified graphical interface, these Transcend applications allow you to oversee and control the entire LAN—from the NICs in each PC and server to the hubs and interconnecting devices residing in SuperStack II systems.

RMON Functionality

The Hub 100 Management Unit supports four groups of RMON (history, statistics, alarms, events) enabling industry standard tracking, storing, and analysis of network traffic, as well as powerful diagnostic capabilities. The RMON agent reduces the SNMP traffic over LAN and WAN connections, improves management console response time and reduces troubleshooting costs. SmartAgent software enhances RMON by adding auto-calibration of thresholds and action-on-event.

Security Features

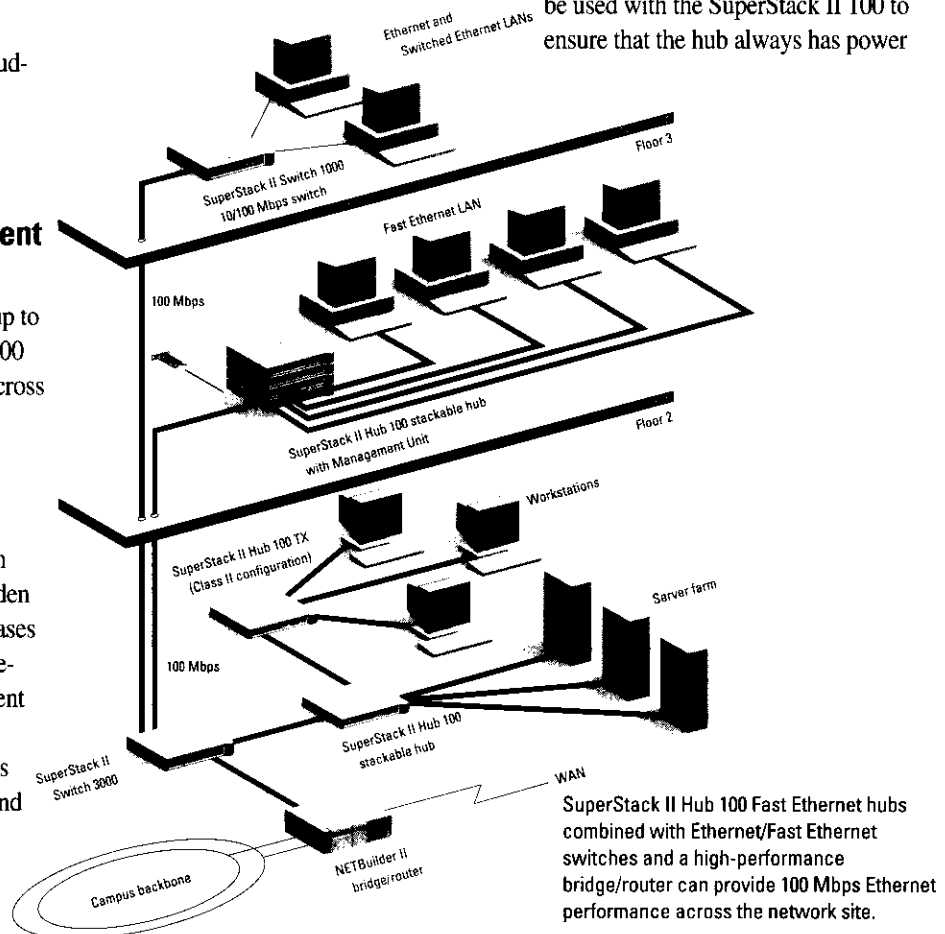
The SuperStack II Hub 100 is equipped with a number of simple-to-use features that help safeguard against security breaches.

- Disable unknown device prevent unauthorized user from tapping into the network
- Audit Log—tracks management configuration changes
- Multiple user levels and passwords ensure that only authorized users have access to critical management function

High Availability Features

The SuperStack II Hub 100 offers several features to maximize hub and network availability:

- Resilient links is a management feature that allows you to configure standby links and to protect against cable failures
- SuperStack II RPS and UPS are optional SuperStack II products that can be used with the SuperStack II 100 to ensure that the hub always has power



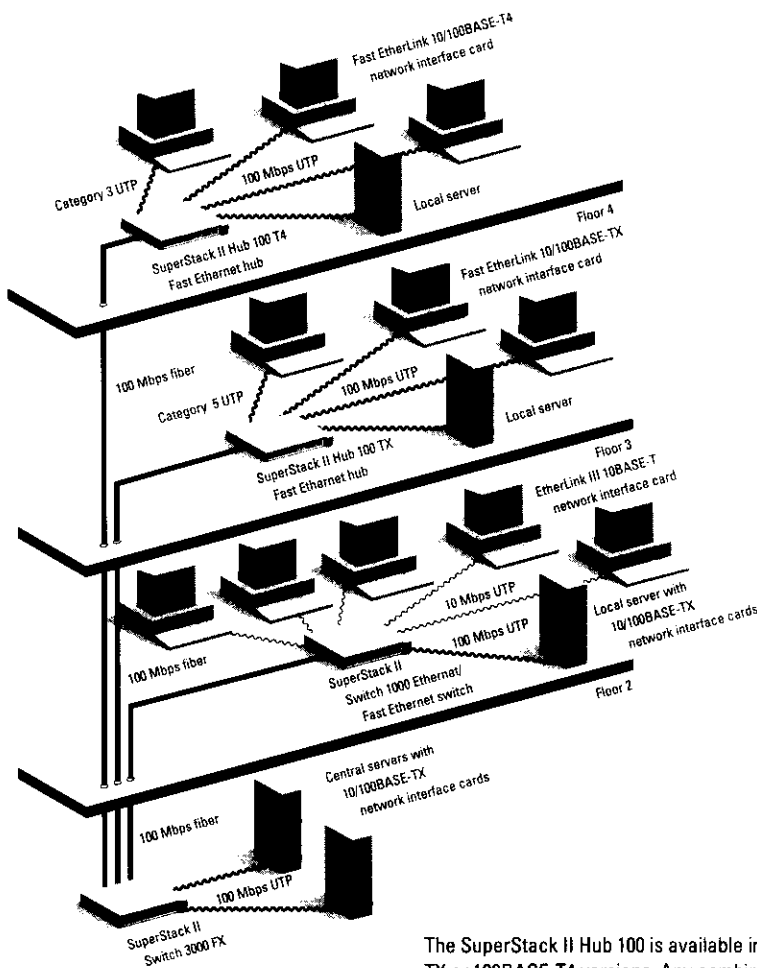
Complete Fast Ethernet Solution

3Com provides a full complement of Fast Ethernet products, giving you end-to-end 100BASE-T capabilities. In addition to the SuperStack II Hub 100 hub, 3Com offers the SuperStack II Switch 1000 Ethernet/Fast Ethernet workgroup switch, SuperStack II Switch 3000 Fast Ethernet Switch, Fast EtherLink® 10/100 NICs, and a Fast Ethernet module for the NETBuilder II® bridge/router.

Modular Backbone/Downlink Connections

SuperStack II Hub 100 hubs offer two options for server backbone and downlink connections using downlink transceiver modules:

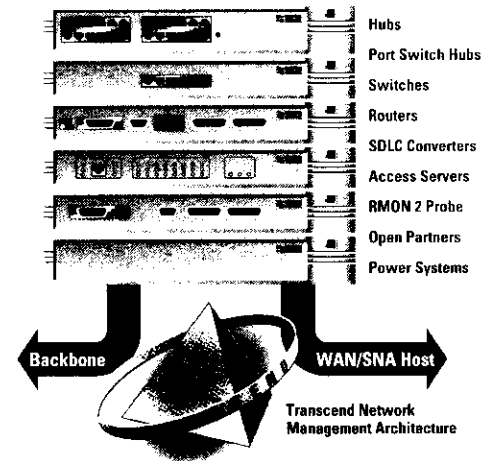
- The SuperStack II Hub 100 100BASE-TX Transceiver Module provides an RJ-45 connector for Category 5 unshielded twisted-pair (UTP) wiring conforming to the 100BASE-TX Fast Ethernet standard
- The SuperStack II Hub 100 100BASE-FX Transceiver Module is equipped with a 62.5/125µ SC fiber connector for 100BASE-FX backbone connections



The SuperStack II Hub 100 is available in 100BASE-TX or 100BASE-T4 versions. Any combination of TX and T4 hubs can be stacked and managed together to simply support any type of UTP cable. 100BASE-TX supports Category 5 UTP cable while 100BASE-T4 uniquely supports 100 Mbps on Category 3 or 4 UTP. The 100BASE-FX transceiver module can be used with either hub to provide fiber backbone connections.



SuperStack II System



3Com's SuperStack II system gives you a flexible, cost-effective connectivity solution for local, wide area, and SNA networks. You can combine diverse technologies and network services in one stacked system, strengthen it with uninterrupted and redundant power systems, and manage it all with Transcend management software.

As an important part of 3Com's Transcend Networking framework, SuperStack II system will meet your evolving network needs—future-proofing your network investment.

A single SuperStack II system provides connections for a range of network environments and protocols: Ethernet, 100BASE-T Fast Ethernet, Token Ring, FDDI, ISDN, X.25, Frame Relay, and ATM. Depending on your needs, you can build SuperStack II systems for virtually any network environment. Capabilities include:

- Shared and port switched hubs for flexible workgroup connectivity with SNMP management
- Industry-leading physical layer support for Token Ring networks
- Full RMON support for Ethernet, Fast Ethernet, and Token Ring networks, as well as a dedicated RMON 2 Probe
- Full range of switches to improve performance in high-speed client/server LANs
- Full, multiprotocol network access for telecommuters or users at other off-site locations
- Routing between central site and branch offices using innovative Boundary Routing® architecture or conventional routing software for multiple WAN choices, including ISDN
- SNA-to-LAN conversion linking local and remote offices to an SNA host system
- Choice of power systems to ensure uninterrupted network operation

For smaller offices of less than 20 users, our OfficeConnect™ products can be used to complement SuperStack II systems.



Specifications

SuperStack II Hub 100 Stackable Fast Ethernet Hub

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Dimensions and Weight

Width: 17.32 in/44 cm

Depth: 12 in/30.5 cm

Height: 1.72 in/4.36 cm

SuperStack II Hub 100 Weight:

12 lb/5.4 kg

SuperStack II Hub 100

Management Unit Weight:

11 lb/5.0 kg

Connectors and Cables

SuperStack II Hub 100 TX

12 RJ-45 ports supporting
100BASE-TX transmission over
2 pair Category 5 UTP cable

SuperStack II Hub 100 T4

12 RJ-45 ports supporting
100BASE-T4 transmission over 4
pairs of Category 3, 4, or 5 UTP cable

Transceiver Interface Modules

1 transceiver interface module slot
supported by 2 optional transceiver
modules:

- 100BASE-TX module with 1 RJ-45 connector supporting 100BASE-TX transmission over 2 pair category 5 UTP cable
- 100BASE-FX module with 1 SC connector supporting 100BASE-FX transmission over multimode duplex 62.5/125µ fiber

SuperStack II Hub 100 Management Unit

1 DB-9 RS-232 interface port
1 IEC320 power cord included
1 Expansion cable

Power Requirements

Power Supply: 100 to 240 VAC,
47 to 63 Hz

Power Consumption: 40 W

Power Inlet: IEC320

Fuse Protection: 2A

Heat Dissipation/Hour: 137 BTU

1 IEC320 power cord is included

Environmental Ranges

Operating Temperature: 32° to 122° F
(0° to 45° C)

Operating Humidity: 10% to 90%
noncondensing

Storage Temperature: -22° to 140° F
(-30° to 60° C)

Storage Humidity: 10% to 95%
noncondensing

Indicators

Per Unit LEDs: power status,
collision, overtemp

Per Port LEDs: packet reception,
partition, link status

LCD unit ID indicator

Standards Compliance

SuperStack II Hub 100 TX

IEEE 802.3u. 100BASE-T compliant
100 Mbps baseband CSMA/CD stan-
dard (complies with IEEE standard
Class II repeater); ISO 8802/3

SuperStack II Hub 100 T4

IEEE 802.3u. 100BASE-T
compatible
100 Mbps baseband CSMA/CD stan-
dard (complies with IEEE standard
Class I repeater); ISO 8802/3

Electromagnetic Compatibility

FCC Part 15B Level A;
IEC 801-2.3.4; EN55022

Safety

UL; CSA; 94 V-0;
IEC 950/EN 60950 (TUV)

Mounting

Includes hardware for mounting in a
standard 19-inch rack

Ordering Information

Hub

SuperStack II Hub 100
100BASE-TX Hub 3C250B-TX

SuperStack II Hub 100
100BASE-TX
48-Port System 3C250B-TX-4PK

SuperStack II Hub 100
Fast Ethernet TX
Workgroup Pack 3C270B-TX

SuperStack II Hub 100
100BASE-T4 Hub 3C250-T4

SuperStack II Hub 100
100BASE-T4
48-Port System 3C250-T4-4PK

SuperStack II Hub 100
Fast Ethernet T4
Workgroup Pack 3C270A-T4

SuperStack II Hub 100
Management Unit 3C215A

Downlink Transceiver Modules

SuperStack II Hub 100
100BASE-TX
Transceiver Module
(Category 5 UTP) 3C252-TX
SuperStack II Hub 100
100BASE-FX
Transceiver Module
(62.5/125µ fiber) 3C262-FX

Accessories

SuperStack II Hub 100
Expansion Cable 3C219
SuperStack II Hub 100
Crossover Cable 3C221

Complimentary Products

SuperStack II Power Systems
(see *3Com Buyer's Guide* for
specifications)

Five-Year Warranty

Each SuperStack II Hub 100 or man-
agement unit is covered by a five-
year limited warranty. Power
supplies and fans are warranted for
one year. To qualify for the war-
ranty, you must submit a registration
card. Advance hardware exchange
is available during the first year;
thereafter, return the hub to 3Com
for repair. The warranty is not
offered where restricted or prohibited
by law.

To learn more about 3Com products, visit our World Wide Web site at <http://www.3com.com>.

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