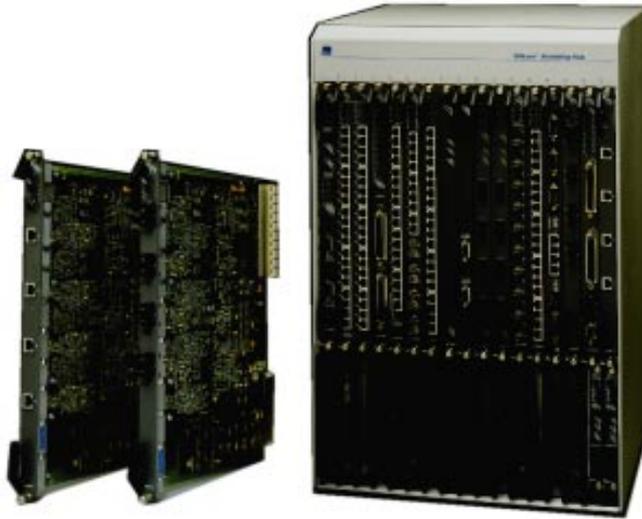




ONcore SwitchModule Series – Fast Ethernet Solutions

*High-Function Switching Solutions for the
ONcore Integrated System*



SwitchModule family

The 3Com® Fast Ethernet SwitchModules extend the ONcore Integrated System SwitchModule family by delivering scalable, switched Fast Ethernet. Utilizing the 3Com Multiprotocol Integrated Switch Controller (ISC) 4000 ASIC each Fast Ethernet SwitchModule supports half- and full-duplex for

100BASE-TX and 100BASE-FX. With an ISC4000 on each SwitchModule, scalability, performance and fault-tolerance are assured. Altogether, the Fast Ethernet SwitchModules bring the High-Function features required for building switched Fast Ethernet backbones and server farms.

Key Benefits:

■ **Scalable Bandwidth** — Supports the ever growing requirements for today's bandwidth intensive applications. Each SwitchModule delivers 650,000 packets per second of throughput, allowing smooth and incremental increases in aggregate network bandwidth to support new applications with the simple addition of SwitchModules.

■ **High-Function Backbone Features** — Supports the high-function demands of Backbone LAN switching applications. The SwitchModule series provides capabilities that include hardware-based frame and protocol filtering, support for 32,000 MAC addresses, and the ability to prioritize traffic through the switch.

■ **Virtual Networking Support** — Simplifies the configuration and management of the network. The SwitchModule series supports ASIC-based Virtual Networking, to ensure maximum flexibil-

ity and performance while reducing network operating costs.

■ **Complete Fault Tolerance** — Provides non-stop operation for mission critical high-performance networks. With no single point of failure, the ONcore Integrated System, with the SwitchModule series, provides industry-leading reliability for maximum network availability.

■ **Comprehensive System Management** — Provides a single point of network control and management. Along with Transcend® graphical management, the SwitchModule series provides Roving Analysis Port, integrated RMON, and more for proactive, distributed management of switched network infrastructures. Additionally, each SwitchModule supports the advanced architecture of the ONcore Integrated System for power, inventory, and distributed management.





Specifications

ONcore SwitchModule Series — Fast Ethernet Solutions

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General

All ONcore SwitchModules

Switching Architecture

– Store and Forward

Memory Architecture

– System Software Storage: FLASH
EEPROM - 2 MB, user-upgradeable to
4 MB

– Packet Memory: 3 MB dynamically
shared by ports on each SwitchModule

– Data memory for RMON: 2 MB, user
upgradeable to 18 MB

Virtual LAN Support

– 256 Virtual Switches

MAC Addresses per ONcore

SwitchModule

– 32,000

Protocols Supported

IEEE 802.3; IEEE 802.1d; IEEE 802.1h;
FDDI; IP Fragmentation — RFC 1349;
SNMP — RFC 1157; TELNET (via
DMM) — RFC 854; TFTP —
RFC 1350; ARP — RFC 826;
SLIP (via DMM) — RFC 1055

MIBs Supported

MIB II — RFC 1213; RMON MIB —
RFC 1757; Bridge MIB — RFC 1493;
Ethernet-like MIB — RFC 1643; FDDI
SMT 7.3 MIB — RFC 1512; Interfaces
MIB — RFC 1573; 3Com MIB

Management Access (via DMM)

In-band

SNMP, TELNET (command line
interface)

Out-of-band

SLIP (SNMP, TELNET) and Direct
Asynchronous Terminals

Front Panel Indicators

PacketChannel Status; Module Status;
Per port bicolor Activity/Status LED
Full duplex LED

User-defined Filters

MAC Addresses; Protocol - 64 per
SwitchModule

Environmental

Operating Temperature: 0° to 50°C

Operating Humidity: 10 to 95% relative
humidity (noncondensing)

Storage Temperature: -40° to 66°C

Storage Humidity: 10 to 95% relative
humidity

Agency Approvals

EMI Certifications

FCC Part 15, Class A; ICES003;
EN55022 (CISPR22), Class A;
EMC Directive 89/336/EEC;
VCCI Level 1

Safety Certifications

UL 1950; CSA22.2 No. 950;
EN 60950; IEC950

Cabling Requirements

100BASE-TX Ports: 100 Ohm

Category 5 UTP - up to 100 m,
100 Ohm STP - up to 100 m

100BASE-FX Ports: 50/125, 62.5/125,
multimode fiber up to 2 km (Full duplex)

Ordering Information

Single-slot, 4-Port 100BASE-TX
SwitchModule 3C96604M-TX

Single-slot, 4-Port 100BASE-FX
SwitchModule 3C96604M-FX-SC

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

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