MATRIX 6H258-17 AND 6H259-17 FAST ETHERNET MODULES   Data Sheet

- **High-performance, scalable switching**
    - Module throughput of 2 million pps; aggregate system throughput of 10 million pps
    - Module bandwidth of 3.3 Gbps and system bandwidth of 16.5 Gbps
    - Modular VHSIM/HSIM slot for optional high-speed access to backbone technologies such as Gigabit Ethernet, ATM, WAN and more

- **Standards based for system interoperability**
    - Complies with industry standards, including 802.1Q, 802.3x and 802.1p

- **Fully fault tolerant for maximum uptime**
    - Distributed switching architecture increases throughput and switching capacity
    - Full duplex operation for higher throughput and increased distances
    - Complete system redundancy for management, switching, power supplies and environmental control

- **Total enterprise management**
    - GUI-based NetSight offers device and VLAN management
    - Full SNMP and 9 groups of RMON
    - Port mirroring and port trunking support

Fast Ethernet-Over-Fiber for the Matrix E6 and E7

Benefit from high-capacity modules with modular uplink slots for connectivity to a high-speed backbone.

Increased Capacity for High-Bandwidth Traffic

The Matrix 6H258-17 and 6H259-17 are high-performance, high-capacity Fast Ethernet-over-fiber (100Base-FX) modules for the Matrix E6 (formerly SmartSwitch 6000) and Matrix E7 chassis. These switching modules provide high port densities with 16 100Base-FX ports each (MMF or SMF) as well as a flexible uplink slot for connectivity to high-speed LAN or WAN backbones.

The MT-RJ connector type/standard, designed to make fiber optics easier and more affordable to deploy throughout the enterprise, is fully supported, making this the industry's most cost-effective 100Base-FX switching solution. With the Matrix 6H258-17 and 6H259-17, the ability to deliver fiber-to-the-desktop is a viable option, increasing the capacity for multimedia and other high-bandwidth traffic. Enterasys' fiber solutions also allow customers to ensure data security, achieve greater cabling distances and provide a seamless migration path to future networking technologies.

Designed to meet the connectivity needs of small, medium and large enterprises, the Matrix product family—including the industry-leading Matrix E6 and E7—provides high-density, scalable, multilayer switching to enable all the critical applications an organization needs to thrive in the Internet economy. This includes everything from e-commerce and enterprise resource planning to industry-specific applications such as telemedicine, distance learning, and secured financial transactions—even the day-to-day applications a company requires to do business. With the features customers are looking for—guaranteed QoS, enhanced security, multiple technology support, industry-standard management, and more—Enterasys switching solutions are building the next-generation IT infrastructure to support growing enterprises.

ENTERASYS
NETWORKS™

PHYSICAL SPECIFICATIONS

Dimensions
46.43 cm (18.28") H x 6.05 cm (2.38") W x 29.51 cm (11.62") D

Weight
2.25 kg (5 lbs)

MTBF
> 200,000 hr (predicted)

Technology
Fast Ethernet

Port Count
16

Media Type
MMF/SMF

Connector Type
MT-RJ

User Configurable Ports
1 VHSIM slot that accepts HSIMs and VHSIMs

Management Processor
Intel i960 HD RISC processor

Switching Engine
Custom ASIC

Main Memory
20 MB expandable to 32 MB

Buffer Memory
4 MB

Flash Memory
8 MB

Performance Throughput Capacity
2,000,000 pps (measured in 64 byte packets)

Switching Bandwidth Capacity
3.3 Gbps

In-Band Management
Supported

Out-of-Band Management
Via RS-232 COM Port, Telnet

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature
+5° to +40°C (41° to 104°F)

Non-Operating Temperature
-30° to 90°C (-22° to 194°F)

Operating Humidity
5% to 90% (non-condensing)

Power Consumption
Voltage Range: 100 to 125 VAC or 200 to 250 VAC
Frequency Range: 50 to 60 Hz

ORDERING INFORMATION

6H258-17
16-port 100Base-FX switch module; 16 MMF ports via MT-RJ connectors and one VHSIM slot

6H259-17
16-port 100Base-FX switch module; 16 SMF ports via MT-RJ connectors and one VHSIM slot

VHSIM-G6
Gigabit Ethernet VHSIM, connectivity provided via hot swappable GPIMs

HSIM-FE6
Fast Ethernet high-speed interface module with two FEPIM slots (purchase FEPIMs separately)

VHSIM2-A6DP
45Mbps - 622Mbps ATM VHSIM

HSIM-F6
FDDI high-speed interface module; supports two FPIMs, both purchased separately.

HSIM-W84
4-port WAN high-speed interface module; supports four T1 interfaces via four RJ48C interfaces and supports IP/IPX routing

GPIM-01
Gigabit Ethernet port interface module, 1000BaseSX

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