



- **Flexible, high-performance connectivity**
  - Standalone module with two high-speed interface module (HSIM) slots and two Fast Ethernet port interface module (FEPIM) slots
  - ASIC-based design delivers over 400,000 packets per second (pps) of throughput
  - Port trunking and port mirroring services
- **Total network flexibility**
  - Supports optional integrated connectivity for various technologies including ATM, Gigabit Ethernet, FDDI, WAN, Fast Ethernet and Fast Ethernet over SONET
- **Standards based for complete interoperability**
  - Supports IEEE 802.1Q VLAN and 802.1p Priority Queuing/Multicast Filtering
- **Integrated manageability**
  - Intelligent broadcast control suppresses broadcast packets according to a user-defined threshold, governing the flow of traffic to avoid storms
  - Full RMON support
- **Fault tolerant for maximum uptime**
  - Available with internal, redundant AC power supplies

## Multiple Technology Options for the Enterprise

*The 2M46-04R provides the ability to configure ATM, FDDI, WAN, Gigabit Ethernet, Fast Ethernet and Fast Ethernet-over-SONET from a single switch.*

## High-Performance, Flexible Switching for the Enterprise

An economical, one-box solution, the 2M46-04R can be configured to provide ATM, FDDI, WAN and Gigabit Ethernet connectivity through its two HSIM slots, and Fast Ethernet and Fast Ethernet-over-SONET connectivity through its two FEPIM slots. This makes the 2M46-04R ideally suited to high-speed LAN-to-LAN or LAN-to-WAN translational switching services.

Simple and extremely cost effective, the 2M46-04R's flexibility in media and technology enables the customization of individual configurations allowing the integration of new technologies into an existing network infrastructure while preserving initial investments. Dual load-sharing power supplies are included.

## TECHNICAL SPECIFICATIONS

**Processor**  
Intel i960 HT RISC processor

**Switching Engine**  
Custom ASIC

**Main Memory**  
20 MB

**Buffer Memory**  
4 MB

**Flash Memory**  
4 MB expandable to 8 MB

**Address Table Size**  
8,192 entries

**Performance Throughput Capacity**  
400,000 pps (64 byte packets)

**Switching Bandwidth Capacity**  
640 Mbps

## PHYSICAL SPECIFICATIONS

**2M46-04R Interfaces**  
Two high-speed interface module (HSIM) slots, and two Fast Ethernet port interface module (FEPIM) slots

**2M46-04RDC Interfaces**  
Two high-speed interface module (HSIM) slots, and two Fast Ethernet port interface module (FEPIM) slots

**Dimensions**  
7.11 cm (2.8") H x 43.18 cm (17") W x 47 cm (18.5") D

**Weight**  
4.28 kg (9.5 lb)

**MTBF (predicted)**  
>200,000 hours

## MANAGEMENT

**In-Band Management**  
Via SNMP using NetSight™ Element Manager

**Out-of-Band Management**  
RS-232 COM port

## ENVIRONMENTAL SPECIFICATIONS

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

**Non-Operating Temperature**  
-30° to +73° C (-22° to 164° F)

**Operating Humidity**  
15% to 90% (non-condensing)

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

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## SAFETY SPECIFICATIONS

Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 72/73/EEC

**Electromagnetic Compatibility (EMC)**  
Compliant with the requirements of FCC Part 15, CSA C108.8, EN555022, VCCI V-3/93.01, EN50082-1 and 89/336/EEC

**RFCs**  
IETF MIB II (RFC 1213)  
IETF Bridge MIB (RFC 1286)  
IETF RMON MIB (RFC 1757)  
FIB MIB (RFC 1354)

## ORDERING INFORMATION

**2M46-04R**  
LAN/WAN/ATM uplink switch with two HSIM slots, two FEPIM slots, and second power supply for redundancy (purchase FEPIMs and HSIMs separately)

**HSIM-F6**  
FDDI high-speed interface module, supports two FPIMs (purchase FEPIMs separately)

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

**HSIM-G0I**  
Gigabit Ethernet HSIM for any HSIM host system with single port support via P802.3z 1000Base-SX (Short-wave) MMF SC

**HSIM-G09**  
Gigabit Ethernet HSIM for any HSIM host system with single port support via P802.3z 1000Base-LX (Long-wave) MMF/SMF SC

**HSIM-SSR-600**  
HSIM-SSR-600 with dual SWPIM slots, 10/100 Ethernet, CRS

**GPIM-0I**  
Gigabit Ethernet Port Interface Module (GPIM), 1000Base-SX

**FE-100FX**  
Fast Ethernet port interface module, multimode fiber, SC connectors

**FE-100TX**  
Fast Ethernet port interface module, cat 5 UTP 100Base-TX via RJ45 port