

SPECIFICATIONS

• APPLICABLE STANDARDS

IEEE 802.3u 100BaseFX
IEEE 802.3z 1000BaseSX
IEEE 802.3z 1000BaseLX
IEEE 802.1p Priority (QoS)
IEEE 802.1D Spanning Tree
IEEE 802.1Q Tagged VLAN
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation

• PORTS

Model 065-7732AFSC:

24 – Fixed 100FX ports, SC MM connectors (IEEE 802.3u 100FX).
Maximum distance: 2,000 meters with 62.5/125 micron or 50/125 micron MM fiber.

2 – Fixed 1000SX ports, SC MM connectors (IEEE 802.3z 1000SX).
Maximum distance: 220 meters with 62.5/125 micron MM fiber or 55.0 meters with 50/125 micron MM fiber.

1 – RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

Model 065-7732AFSM:

24 – Fixed 100FX ports, SC SM connectors (IEEE 802.3u 100FX).
Maximum distance: 75 kilometers with 9/125 micron SM fiber.

2 – Fixed 1000BaseLX Gigabit Ethernet ports, SC SM connectors (IEEE 802.3z 100LX).

Maximum distance: 20 kilometers with 9/125 micron SM fiber.

1 – RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

• LED STATUS INDICATORS

Per Unit: Power status

Per Port: LNK/ACT, FDX (2 LEDs) for each 100BaseFX port

• FIBER INTERFACES:

100BaseFX multimode (Model 065-7732AFSC):

Type: LED
Wavelength: 1300 nm nominal
(1270 nm maximum, 1380 nm minimum)
Maximum Output Power: - 14.0 dBm
Minimum Output Power: - 20.0 dBm
Sensitivity: -33.0 dBm
Maximum Input Power: - 8.0 dBm
Link Power Budget: 13.0 dB

1000BaseSX multimode (Model 065-7732AFSC):

Type: Laser Diode
Wavelength: 850 nm nominal.
Maximum Output: - 4.0 dBm
Minimum Output Power: - 9.5 dBm
Sensitivity: -13.5 dBm
Maximum Input Power: - 13.5 dBm
Link Power Budget: 4.0 dB

100BaseFX singlemode (Model 065-7732AFSM):

Type: MQW Laser
Wavelength: 1300 nm nominal
(1260 nm maximum, 1360 nm minimum)
Maximum Output Power: - 7.0 dBm
Minimum Output Power: - 15.0 dBm
Sensitivity: -34.0 dBm
Maximum Input Power: - 7.0 dBm
Link Power Budget: 19.0 dB

1000BaseLX singlemode (Model 065-7732AFSM):

Type: MQW Laser
Wavelength: 1300 nm nominal
(1260 nm maximum, 1360 nm minimum)
Maximum Output Power: - 7.0 dBm
Minimum Output Power: - 15.0 dBm
Sensitivity: -34.0 dBm
Maximum Input Power: - 7.0 dBm
Link Power Budget: 19.0 dB

• PERFORMANCE

Latency: <4.5 μ s (LIFO).

Throughput: 1.48810 million pps (64-byte packets)

Switch Fabric Speed: 12.0 Gbps

Packet Buffer Size: 4 MB shared packet buffers.

MAC Address Capacity: 12 K MAC addresses

Port Mirroring: Through dedicated ports, port 1 & port 13

RAM/ROM Capacity: 2 MB

Processor Type & Speed: Motorola 850 @50 MHz

Flash Capacity: 8 MB

• INTERNETWORKING PROTOCOLS SUPPORTED

Bridging:

802.1D Spanning Tree
802.1p/Q - GARP/GVRP

• INTERNETWORKING PROTOCOLS SUPPORTED

Routing:

RIP
RIP-2
DHCP-Relay
ICMP Router Discovery Message

IP Multicast:

IGMP Snooping
IP Multicast Packet Filtering
Maximum 128 VLANs and IP multicast sessions

• VLAN CAPABILITIES

Port-based VLAN, up to 64 groups

IEEE 802.1Q Tag-based VLAN: up to 128 active VLANs possible

• QoS CAPABILITIES

Supports 802.1p QoS with four level priority queue and 4 queues per output port

Packet transmission scheduled using Weighted Round Robin (WRR) protocol with user-defined weights.

Classification of packet priority based on either a VLAN tag on the packet or a user-definable port priority

• LINK AGGREGATION

MAC-based Port Trunking with up to 4 trunking groups

Maximum 4 aggregated ports per trunking group

Load sharing based on source and destination MAC addresses

• PORT SECURITY

Limited number of MAC addresses learned per port

Static MAC addresses stay in the filtering table

MAC address filtration to either deny or allow only given MAC addresses.

• MANAGEMENT

Console port access via RS-232 cable

Telnet remote access

SNMP agent:

MIB-2 (RFC1213)
Bridge MIB (RFC1493)
RMON MIB (RFC1757) - statistics, history, alarm and events
VLAN MIB (802.1Q/RFC2674)
Private MIB

Java applet-based MIB browser

Web browser support based on HTTP server and CGI parser

Kermit/TFTP software-upgrade capability

• PHYSICAL CHARACTERISTICS

Dim: 17.4"Wx 16.4"Dx 1.8"H (440mm x 415mm x 45 mm)

standard 19-in rack mounting (hardware included).

Weight: 7.5 lbs. (3.4 kg)

• ELECTRICAL CHARACTERISTICS

Heat Dissipation/Hour: 85 BTU/hr

Maximum Wattage: 52 W.

Current: 2.0 A maximum

AC Input: 100 ~ 260 V AC, 47 ~ 63Hz internal universal power supply

Specification applies to each of two included redundant, load-sharing, hot-swappable power supplies.

• ENVIRONMENT

Operating:

Temperature: 32°F to 104°F (0°C to 40°C)

Relative Humidity: 10 to 90%, non-condensing

Non-Operating/Storage:

Temperature: -13°F to 158°F (-25°C to 70°C)

Relative Humidity: 10 to 90%, non-condensing

Altitude: 3,048 meters (10,000 feet)

Shock & Vibration: HP759, HP760 (similar to EN60068 IEC 68)

• SAFETY

FCC Part 15 Class A & CE Mark Approval, VCCI Class A

UL 1950

• IMMUNITY

Generic: EN 50082-1

ESD: IEC/EN 61000-4-2; 4 kV CD, 8 kV AD

Radiated: IEC/EN 61000-4-3; 3 V/m

EFT/Burst: IEC/EN 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

• WARRANTY

Five years, including power supply