

**JME-2400M**

Features

- High Performance Network Switching Technology**
 - ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE802.3z, IEEE802.3ab, IEEE802.3x, IEEE802.3ad, IEEE802.1w, IEEE802.1d, IEEE802.1p, IEEE802.1q, IEEE802.1x, IEEE 802.1ab
 - ✓ Modules selectable:
 - 8 x 10/100TX RJ45, 8 x 100FX Fiber, 8 x 100Mbps SFP
 - ✓ Provides broadcast storm protection
 - ✓ IGMP snooping for multicast traffic
 - ✓ QoS / ToS to increase network packet determinism
 - ✓ VLAN for easy network planning
 - ✓ Port trunking with flexible load distribution control and fail-over function
 - ✓ Supports IP security
 - ✓ Supports Web/ SNMP / Telnet / CLI management
 - ✓ Supports LLDP
- Robust Industrial Design**
 - ✓ Metal case complying to IP-20 housing standard
 - ✓ Rack mount or desktop installation
- Reliable Power Design**
 - ✓ Supports 2 Fans with failure detection power detection technology
 - ✓ Supports AC 100~240V 50/60Hz, optional redundant Power: DC (12V~48V)



Overview

The JME-2400M is a new generation Modular Managed Enterprise Switch with an optimized platform which offers a flexible, cost-effective LAN solution with high quality and reliability in 10/100 scalable solutions that integrate easily into any network over twisted pair and fiber optic cable. Jaguar JME-2400M comes with a hot swappable three slot modular design for low cost of ownership. It allows different optional modules like 8-port 10/100TX module with RJ-45 connector, 8 port 100Mbps multi mode fiber module with SC connector, 8 port 100Mbps single mode fiber module with SC connector and 8 port 100Mbps module with SFP connector. JME-2400M is configurable through WEB, Telnet and Console and SNMP network and IGMP to limit the flow of IP multicast traffic. JME-2400M supports VLAN up to 2048 groups and provides port security for improved network security. The modularized design is suitable to meet mission critical applications for backbone use.

Hardware Specifications

Interface

Ports:

RS-232 console: Female DB-9
 8-port 10/100TX module: RJ-45
 8-port 100FX(Multi /Single Mode) module: SC
 8-port 100SFP MINI GBIC module
 2 Gigabit Copper + 2 MINI GBIC Combo: 2 x RJ-45 + 2 x 3.3v MINI GBIC

LEDs:

System Power(Green)
 8 10/100TX module: Link/Activity (Green), Full duplex/collision(Amber)
 8 100Base-FX module: Link (Green)/Activity (Green Blinking)
 8 100Base-TX module: Link (Green)/Activity (Green Blinking)
 Gigabit Copper: Link/Activity (Green), 1000Mbps (Green), 100Mbps (Green), Full duplex/collision (Amber)
 MINI GBIC: Link/Activity(Green), 1000Mbps (Green)

Power Input: AC 100~240 VAC , 50 /60Hz

Power Consumption: 50 watts

Dimensions: IP-20 standard, 440 mm (W) x 44 mm (H) x 280 mm (D)

Ventilation: 2 FAN with failure detection, Power detection

Installation: Rack mount or desktop

Environmental

Operating Temp: Regular: 0 to 60°C

Storage Temp: -40 to 85°C (-40 to 185°F)

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

Technical Specifications

Standard:

IEEE 802.3 10BASE-T
 IEEE 802.3u 100BASE-TX
 IEEE 802.3z Gigabit fiber
 IEEE 802.3ab 1000Base-T
 IEEE 802.3x Flow control and Back pressure
 IEEE 802.3ad Port trunk with LACP
 IEEE 802.1d Spanning tree protocol
 IEEE 802.1w Rapid spanning tree
 IEEE 802.1p Class of service
 IEEE 802.1q VLAN Tagging
 IEEE 802.1x User authentication
 IEEE 802.1ab LLDP

Protocol Technology: CSMA/CD

Switching Architecture: Store and Forward

Performance

Data Transfer Rate:

14,880 pps for Ethernet port
148,800 pps for Fast Ethernet port

Jumbo Frame: 9022bytes (only for Gigabit ports)

MAC Address: 8K

Packet Buffer: 4Mbytes

System Memory: 16Mbytes

Back-plane: 8.8 Gbps

Regulatory Approvals

EMI: FCC Class A

EMI:

EN61000-4-2, EN61000-4-3, EN-61000-4-4, EN61000-4-5
EN61000-4-6, EN61000-4-8, EN61000-4-11

Safety: CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Environmental: WEEE, RoHS

MTBF: 350,000 hrs based on Mil-Hdbk-217F, GB

Warranty: 3 years

Management Specifications

Management Protocols:

SNMP v1 v2c, v3/ Web/Telnet/CLI/RMON1 Management

MIB:

RFC 3418 SNMP MIB
RFC 1213 MIBII
RFC 2011 MIB SNMP v2
RFC 1493 Bridge MIB
RFC 2674 VLAN
RFC 1215 Trap MIB
RFC 1643 Ethernet like
RFC 1757 RMON1
RSTP MIB
LLDP MIB
Private MIB

SNMP Trap:

Cold start/Warm start trap, Link down/Link up trap, Authentication fail trap,
Fan fail trap, Power event trap

Configuration Download and Upload:

System quick installation and backup by TFTP

Port Trunk:

Support IEEE802.3ad with LACP function.

Up to 13 trunk groups, trunk member up to 4 ports and include 2 uplink ports

Spanning Tree:

IEEE802.1d spanning Tree
IEEE802.1w Rapid Spanning tree protocol

VLAN:

Port-based VLAN, up to 24 groups, IEEE802.1Q Tag VLAN
Static VLAN groups up to 256,
Dynamic VLAN group up to 2048, VLAN ID from 1 to 4094
GVRP up to 256 groups
Support Q in Q double tag

Quality of Service:

Port based, Tag based, IPv4 Type of service, IPv4 Different service

Class of Service:

IEEE802.1p class of service, per port provides 4 priority queues

IGMP Snooping:

IGMP snooping v1,v2
IGMP Snooping for Multi-Media application
IGMP group supports 256 groups and IGMP query

Port Security:

50 entries of MAC address for static MAC and another 50 for MAC filter

Port Mirror:

3 mirroring types: "RX, TX and Both packet"

Bandwidth Control:

Per port supports ingress rate limiting and egress rate shaping control
The rate limiting and rate shaping can be set from 0~100Mbps

IP Security: IP address security to prevent unauthorized intruder

802.1x Authentication:

Supports IEEE802.1x User-Authentication, and can report to RADIUS server
Reject
Accept
Authorize
Disable

Access Control List:

Supports up to 256 policy control lists

DHCP: DHCP client and DHCP Server

DNS:

Provides DNS client feature and supports Primary and Secondary DNS server

System Log:

Provides remote storage ability and also can view the log by
Web/Telnet/SNMP interface
Maximum entry 1000 records

SNTP: Supports SNTP to synchronize system clock in Internet

SMTP:

System supports 6 mail accounts and 1 Mail server

LLDP: Supports IEEE 802.1ab Link Layer Discovery Protocol

Firmware Upgrade: TFTP and Console firmware upgradeable