

FMX-24VX 24Ports 10M/100M Intelligent Switch



▶ Feature

■ Supports clustering Web management

Clustering Web management refers to a function that logically stacks switches. The switch uses this function to automatically search for the same switch type in its broadcast domain. Switches found via the function can be configured in a single configuration screen through Telnet, a serial connection console or Web browser. This way, multiple units of FMX-24VX on a network can be managed remotely and efficiently.

■ Intelligent management features

The product supports SNMP, RMON as well as a protocol for controlling multicast packets. When combined with other intelligent switch products, the switch allows the construction of networks supporting advanced management functions. Network settings can be configured via Telnet, WWW browser as well as the product's console serial port. The web browser interface eases network management via its GUI-based configuration screens.

* SNMP (Simple Network Management Protocol)

A set of protocols used to manage TCP/IP-based networks. It is used as a standard protocol for sending management information stored at network devices (agents) such as routers and switches to management systems (managers).

Supported Protocols:

MIB II / Ethernet-like MIB / Bridge MIB / RMON MIB

* RMON (Remote Network Monitoring)

A network management protocol used to collect and analyze information on network traffic. The network management protocol SNMP has been expanded to cover functions for managing data traffic on remote networks.

Supported RMON Functions: Statistics/History/Alarm/Event

* Multicast Control

A system for sending data simultaneously to multiple users who are connected to a LAN or the Internet. Unlike broadcast, it sends data only to a specific group of users to reduce network traffic.

Supported Control Protocols: IGMP v2, Snooping

■ IEEE802.1Q Tagging VLAN allows for flexible network layout

Fully compliant with IEEE802.1Q Tagging VLAN technology that supports up to 255 groups, the product allows its administrator to group terminals (clients) attached to its network. Tagging VLAN enables the formation of a logical network segment that is totally independent of the actual physical network layout.

■Quality of communication controlled via QoS

Quality of data communication can be controlled via the switch's IEEE802.1p QoS (2-level) function. By assigning a specific priority to each traffic stream, QoS reserves a certain amount of network bandwidth to improve the availability of network applications such as groupware and database.

■Utilizes IEEE802.1d Spanning Tree to provide network redundancy

The switch supports IEEE802.1d Spanning Tree, a Layer 2-level feature for providing data path redundancy. Spanning Tree establishes loop-like cabling links in a network, and automatically disables one of the links. When the other (standard) link fails, the product activates and switches to the other link (path) to sustain data communication in the network.

■IEEE802.1x Authentication

The switch utilizes IEEE802.1X Authentication function to authenticate network clients, thereby improving the security level of its network. Furthermore, an external RADIUS server may be used to authenticate password entered in the product's management screen to both ease user management and achieve a yet higher level of network security.

■Supports Port Mirroring

The switch supports port mirroring, a function that copies packets sent or received on a specific port to another port. A monitoring device such as Sniffer or RMON probe maybe attached to analyze the details of the packets that pass through the source port (which is configured via port mirroring).

■Gigabit expansion slot

The switch supports Gigabit network when an option module (sold separate) is attached to the product's on-board expansion slot. When a Gigabit option module is in use, the switch secures a 1000Mbps broadband communication environment for a heavily-accessed server or a network backbone to eliminate unwanted bottlenecks.

[Option Modules (sold separately)]

-1000BASE-T x 2 ports: F24M-2TE

-1000BASE-SX (SC connector) x 2 ports: F24M-2SX

-1000BASE-LX (SC connector) x 2 ports: F24M-2LX

■Auto MDI/MDI-X enabled on all ports

Since all ports on the switch support Auto MDI/MDI-X, they automatically detect the crossover/straight cable type of the attached cable and thus prevents cabling problems caused by straight/crossover mismatch between the switch and another device.

■Higher network efficiency achieved via Flow Control

The product supports Flow Control (Full Duplex: IEEE802.3x, Half Duplex: Back Pressure) which prevents packet losses caused by mismatches between the sending and the receiving speeds (bandwidth). The product utilizes this technology to achieve highly reliable and efficient network communication

■Store-and-Forward blocks error packets

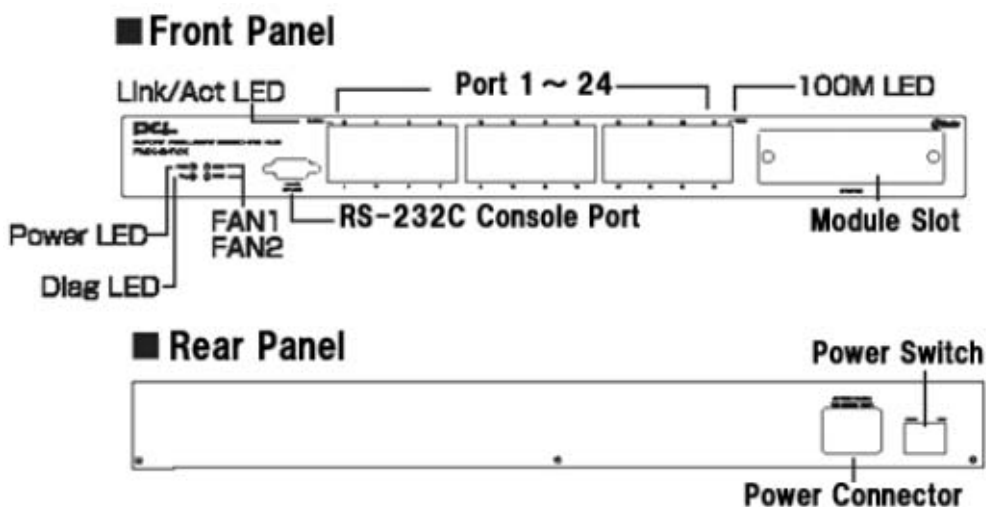
The switch employs Store-and-Forward technology to block error packets within the switch itself, thereby preventing the generation of unwanted traffic on the attached network.

Specification

Model Number	FMX-24VX
Access method	10Mbps/100Mbps(CSMA/CD)
Supported Standards	IEEE802.3ab 1000BASE-T(option) IEEE802.3u 100BASE-TX IEEE802.3 10BASE-T IEEE802.3z 1000BASE-SX/LX(option) IEEE802.3x Flow Control IEEE802.1Q Tagging VLAN IEEE802.1V Protocol Based VLAN IEEE802.1p QoS IEEE802.1d Spanning Tree IEEE802.1x Authentication
Number of Ports	10/100BASE-TX x 24 (Auto MDI/MDI-X supported)
Number of Expansion Slots	1
Internal Bus Speed	8.8Gbps
Packet Buffer Memory	384KB
MAC Address	6000 entries
Data Transfer Mode	Store and Forward
Packet Transfer/Filtering Speed	1000BASE-T 1488,100pps on each port 100BASE-TX 148,810pps on each port 10BASE-T 14,880pps on each port
SNMP	MIB II Ethernet-like MIB Bridge MIB RMON MIB
RMON	Statistics/History/Alarm/Event(1,2,3,9 groups)
Configuration Interface	Serial Console (RS-232 D-sub 9pin), Telnet, WEB browser
Console Port	RS-232 D-sub 9pin
Clustering Web Management	Supported
Port Mirroring	Supported
VLAN	255 groups max.

Trunk	2-4 port(7 groups max.)
QoS(IEEE802.1p)	IEEE802.1p(2-level QoS)
Multicast Control	IGMP v2, IGMP Snooping
Spanning Tree	Supported (IEEE802.1d)
Input Power	100-240V AC, 50-60Hz, internal power supply
Power Consumption	30W Max
Operating temperature	5 to 40 degrees Celsius
Operating humidity	35% to 80% (Non-condensing)
Dimensions	440(W)x44(H)x184(D)mm
Weight	2.3kg
19" Rack-Mounting	Supported
Warranty period	3 years
EMI	CE FCC Class A VCCI Class A
Package Contents	FMX-24VX, configuration serial cable, rack-mount kit, rubber footpads, power cable, user's manual (CD-ROM)

▶ Product View



▶ Option Module



1000BASE-T x 2 ports

F24M-2TE



1000BASE-SX (SC connector) x 2 ports

F24M-2SX

1000BASE-LX (SC connector) x 2 ports

F24M-2LX

▶ Connection Sample

