

FMG-24K 24Ports Gigabit Intelligent Switch



▶ Feature

The FMG-24K provides 24 ports supporting 1000Mbps broadband connectivity. Its wire-speed switching eliminates bottlenecks that build up on heavy traffic servers and backbone connections, offering a truly comfortable and speedy networking environment. Four of the 24 ports serve as a "combo port" supporting both 1000BASE-T connectivity and MiniGBIC slot. When combined with the MiniGBIC module, the product supports 1000BASE-SX/LX connectivity as well.

■ Offers 24 1000BASE-T ports

All of the 24 ports support 1000Mbps connectivity, making the switch an ideal backbone solution for business-oriented networks that require high-speed data processing to handle high volume data and multimedia data.

■ MiniGbic compliant Combo Slot

4 ports out of the on-board 24 ports also serve as a combo port that consists of one 1000BASE-T (RJ-45) port and one MiniGBIC slot (supporting 1000BASE-SX/1000BASE-LX and SC connector). When combined with the optional MiniGBIC module, the product allows implementation of fiber optic Gigabit networking (communicating) environment.

* Note that 1000BASE-T connectivity and MiniGBIC module within the combo slot cannot be used simultaneously.

■ 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 superior management functions. Network configuration can be performed 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/Interface MIB/Ether-Link MIB/Bridge MIB/Extended Bridge MIB

Entity MIB/RADIUS MIB/Private 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 (v1/v2), Snooping, GMRP

■ IEEE802.1Q Tagging VLAN and QoS add flexibility to network systems

Fully compliant with IEEE802.1Q Tagging VLAN technology that supports up to 256 VLAN groups, the switch divides nodes (networked PC's) into separate VLAN groups. This feature enables the construction of logical network segments that are totally independent of the original physical network configuration. Furthermore, the product also complies with IEEE802.1p QoS (4 levels maximum) to control the quality of data communication. By prioritizing network traffic, QoS reserves communication band to heighten the availability of network applications including groupware and databases.

■ Trunk technology establishes a broadband link between two switches

Its Trunk feature combines two to four physical ports (links) to form one logical link, achieving up to 8Gbps of broadband transmission(6 groups, full duplex) between two switches.

■ Link Aggregation

Fully compliant with IEEE802.3ad Link Aggregation, the product supports Trunk connection to switches from other vendors that comply with the Link Aggregation feature. (Supported ports include Port 2 through 24, and supports 1 Trunk group. The success, speed and performance of Trunk connection depends on the other switch's LACP compliance.)

■ Supports Port Mirroring

All ports support Auto MDI/MDIX, a built-in function that automatically recognizes the type (straight/crossover) of the attached cable. This feature effectively removes all wiring troubles caused by a cable type mismatch.

■ All ports support Auto MDI/MDI-X

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■ Store-and-Forward Blocks Error Packets

The FMG-24K employs Store-and-Forward technology to block error packets within the switch itself, thereby preventing the generation of unwanted traffic on the network.

■ Higher Network Efficiency Achieved via Flow Control

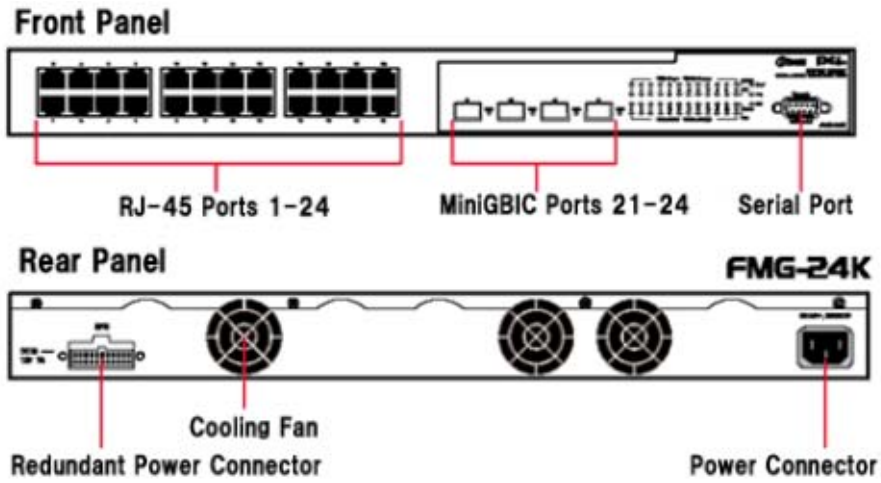
The product supports Flow Control (Full Duplex: IEEE802.3x, Half Duplex: Back Pressure) which prevents packet losses caused by mismatches between the sending and the receiving speeds (bandwidth). The switch utilizes this technology to allow the establishment of a highly efficient and reliable networking environment.

Specification

Model Number	FMG-24K
Access Method	CSMA/CD 10/100/1000Mbps
Supported Standards	IEEE802.3ab 1000BASE-T IEEE802.3u 100BASE-TX IEEE802.3 10BASE-T IEEE802.3z 1000BASE-SX/LX IEEE802.3x Flow Control IEEE802.1Q Tagging VLAN IEEE802.1p QoS IEEE802.1d Spanning Tree IEEE802.1ad Link Aggregation
Number of Ports	10/100/1000BASE-T x 24(Autonegotiation, AutoMDI/MDI-X) (4 ports out of the 24 ports serve as MiniGBIC/1000BASE-T Combo Port) (Combo Slot configuration: 1000BASE-T x 1, MiniGBIC Slot x 1/ the two interfaces in one combo slot cannot be used simultaneously)
Internal Bus Speed	20Gbps
Packet Buffer Memory	1MB
MAC Address	3200 entries
Network Bridging	3200 entries
Data Transfer Mode	Store-and-Forward
Packet Transfer/Filtering Speed	1000BASE-T : 1488,000pps per port 100BASE-TX : 148,800pps per port 10BASE-T: 14,880pps per port
Flow Control	Full Duplex: IEEE802.3x/Half Duplex: Back Pressure
SNMP	MIB II Interface MIB Ether-Link MIB Bridge MIB Extended Bridge MIB Entity MIB

	RADIUS MIB Private 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
Port Mirroring	Supported
VLAN	IEEE802.1Q Tagging VLAN (supports up to 256 groups), GVRP
Trunk	2-4 port Trunk (supports up to 6 groups, and achieves 8Gbps at full duplex)
Link Aggregation (LACP)	IEEE802.3ad 2-24 port (supports 1 group, (depends on the other party's LACP configuration))
QoS(IEEE802.1p)	IEEE802.1p compliant (4-level)
Multicast Control	IGMP Snooping, GMRP
Spanning Tree	IEEE802.11d compliant
Input Power	100-240 VAC, 50-60Hz, internal power supply
Power Consumption	55W Max
Operating temperature	0 to 45 degrees Celsius
Operating humidity	35 to 80% (Non-condensing)
Dimensions	442(W) x 43(H) x 354(D)mm
Weight	4.36kg
19" Rack-Mounting	Supported
Warranty period	3 years
EMI	FCC Class A CE VCCI Class A
Package Contents	FMG-24K, RS-232C serial cable for system configuration (D-Sub 9pin female-female), power cord, rackmounting bracket x 2, screws, rubber footpad x 4, User's Manual (CD-ROM)

Product View



Option Module



1000BASE-SX(LC Connector)Mini GBIC Module 1000BASE-LX(LC Connector)Mini GBIC Module
MGBIC-SX-P **MGBIC-LX-P**