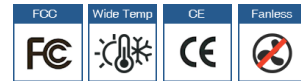# MX6024GL Series

24G-Port Rackmount Layer 3 Full Gigabit Managed Ethernet Switches

Features

- Supports RIP, OSPF, layer 3 routing protocols
- 24 Gigabit Ethernet ports
- Up to 8 optical fiber connections (SC/ST)
- Fanless, -40 to +85°C operating temperature range
- Universal 110/220VADC power supply range

| FCC | Wide Temp | CE | Fanless |

Introduction

The MX6024GL is a high-performance Layer 3 Ethernet switch designed for network routing. The improved hardware technology built into the MX6024GL replaces the software logic used by traditional routers, offering better performance, and making the switch ideal for large scale local area networks (LANs). In addition to Layer 3 features, the MX6024GL also supports advanced management and security features, in order to meet the demands of any industrial application.

Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3z, 802.3ab,
Processing Type	Store and forward
Broadcast Storm	Automatic Broadcast Storm Control
Management	by Web Browser
RingOn	Recovery Time within 15ms
Flow Control	IEEE802.3x Flow Control, Back Pressure Flow Control
Protocols	IGMP Snooping, GMRP, SNMPv1/v2c/v3, DHCP Client, HTTP, HTTPS, Telnet, NTP Client
Software Functions	
L3 Functions	Static IP routing OSPFv1/v2 RIPv1/v2 VRRP IGMP v2/v3 Multicast Listener Protocol Firewall , NAT and port mapping File sharing based on the SAMBA service FTP service based on STUPID FTP SSH secure access service based on OPENSSH Add access, control WEB

L2 Functions	IEEE 802.1Q Static VLAN and VLAN Label Link Layer Management Protocol (LLDP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IGMP SNOOPING RingOn™ Redundant Technology, recovery time <15ms RingOpen Redundancy
Management Tools	Web Interface (HTTP and HTTPS) Console port and Command Line Interface(CLI) controlled by SSHv2 SNMPv1/v2c/v3 Flexible configuration and log file management Managing local file through HTTP, FTP and TFTP Syslog(System log file and remote syslog server) SNTP(NTP Client) Software Online Upgrading

Switch Properties

L3 Host table	8K
MAC Table Size	16K
Priority Queues	4
Max. Number VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256

Interface

RJ45 Port	10/100/1000M Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDIX
Fiber Port	100BaseFX ports (SC/ST connector)
LED Indicators	Power, Port Status, 10/100/1000M
Console port	DB9 male
Output Warning	Relay, Standard 2 Pin

Power Requirements

Input Voltage	120~370VDC @ 30W MAX 85~265VAC @ 30VA MAX
Input Connection	Grid panel terminal blocks Standard 4 pin input connection (optional)

Physical Characteristics

Case	Slim Metal Case, IP40 Design
Dimensions	443×44×310mm
Installation	Rack mounting

Optical Fiber

Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Centre Wavelength	1310nm	1310nm
Cable Size	62.5/125um	9/125um
TX Power(dBm)	-20 to -10dBm	-15 to -8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps

Environment Limits	
Operating Temp	Wide Temp. Models: -40 to 85°C
Storage Temp	-40 to 85°C
Ambient Relative Humidity	5 to 95%(Non-condensing)
Standards and Certifications	
EMI	FCC Part15, CISPR(EN55022) Class A
EMS	EN61000-4-2(ESD) Level 4, EN61000-4-3(RS) Level 4, EN61000-4-4(EFT) Level 4, EN61000-4-5(Surge) Level 4, EN61000-4-6(CS) Level 4, EN61000-6-2
Rail Traffic	EN50155, EN50121-3-2, EN55011, IEC61373
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty	
Warranty Period	3 years

Ordering Information

MX6024GL-VHW	Layer 3 Rackmount Managed, 24 x Gigabit Copper Port, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6024GL-8SC-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2km, Multi Mode Dual Fiber, SC Interface, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6024GL-8SSC-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6024GL-8ST-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with ST Connectors, 2km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6024GL-8SST-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with ST Connectors, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector