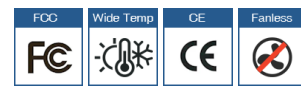# MX6028GL Series

28G-Port Rackmount Layer 3 Full Gigabit Managed Ethernet Switches

Features

- Supports RIP, OSPF, layer 3 routing protocols
- 24 Gigabit Ethernet ports
- Up to 28 optical fiber connections (SFP slots)
- Fanless, -40 to +85°C operating temperature range
- Universal 110/220VADC power supply range

| FCC | Wide Temp | CE | Fanless |

Introduction

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The MX6028GL series full Gigabit backbone switches are equipped with 24 x Gigabit Copper Port and 4 x Gigabit SFP Slots. They provide Layer 3 routing functionality to facilitate the deployment of applications across networks and make them ideal for large scale industrial networks. The MX6028GL's full Gigabit capability increases bandwidth to provide high performance and quickly transfer large amounts of video, voice, and data across a network. The switches support the RingOn and RSTP redundancy protocols, and are fanless and come with an isolated redundant power supply to increase system reliability and the availability of your network backbone.

Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3ab, 802.3z,802.3x, 802.1D, 802.1w, 802.1Q, 802.1p
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	4K
MAC Table Size	16K
Priority Queues	8
Max. Number VLANs	256
VLAN ID Range	VID 1 to 4094
IGMP Groups	1000

Interface

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

Power Requirements

Input Voltage	48VDC @ 50W MAX
	120~370VDC @ 50W MAX
	85~265VAC @ 50VA 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	Single Mode
Transmission Distance	20km
Centre Wavelength	1310nm
Cable Size	9/125um
TX Power(dBm)	-8 to -2dBm
RX Power(dBm)	< -24dBm
Transmission Rate	1000Mbps

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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty	
Warranty Period	3 years

Ordering Information

MX6028GL-4SFP-2VLW	Layer 3 Rackmount Managed, 24 x Gigabit Copper Port, 4 x Gigabit SFP Fiber Port, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028GL-4SFP-VHW	Layer 3 Rackmount Managed, 24 x Gigabit Copper Port, 4 x Gigabit SFP Fiber Port, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6028GL-28SFP-2VLW	Layer 3 Rackmount Managed, 28 x Gigabit SFP Fiber Port, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028GL-28SFP-VHW	Layer 3 Rackmount Managed, 28 x Gigabit SFP Fiber Port, 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