Product Information

MX6012GLN Series

Compliant with IEC61850-3 and IEEE1613

12G-port Din-rail Layer 3 full Gigabit Managed Ethernet switches

| Fanless | CE | Wide Temp | FCC |

Features

- Up to 8 10/100/1000 BaseT(X) ports
- 12 1000BaseSFP slots
- Layer-3 Switching, Supports Static Routing, RIP V1/V2, OSPF
- RingOn, RingOpen and RSTP for network redundancy
- Fanless, -40 to +85°C operating temperature range
- 12~36VDC or 10~24VAC power supply range

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Introduction

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The MX6012GLN series full Gigabit backbone switches are equipped with 12 Gigabit Ethernet ports, and support Layer 3 routing functionality to facilitate the deployment of applications across networks, making them ideal for large scale industrial networks. The MX6012GLN's full Gigabit capability increases 12G-port Layer 3 full Gigabit managed Ethernet switches bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. The switches support the RingOn, RingOpen, and RSTP/STP 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, 802.3z, 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, TFTP and SCP • 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 :	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 :	100/1000BaseSFP slot
LED Indicators :	Power, Port Status, 10/100/1000M
Console port :	RJ45 Port
Output Warning :	Relay, Standard 2 Pin

Power Requirements	
Input Voltage :	12~36VDC @ 24W MAX 10~24VAC @ 24VA MAX
Input Connection :	Grid panel terminal blocks Standard 4 pin input connection (optional)

Physical Characteristics	
Case :	Slim Metal Case, IP30 Design
Dimensions :	55.2×180×148mm
Installation :	DIN Rail or Panel Mounting

Optical Fiber	
Mode	Single Mode
Transmission Distance	20km
Centre Wavelength	1310nm
Cable Size	9/125um
TX Power(dBm)	-8~-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

MX6012GLN Series

MX6012GLN-4SFP-VLW	Layer 3 Din-rail Managed, 8 x 1000Mbps Copper Port, 4 x Gigabit SFP Fiber Port, Industrial Temperature -40°C to +85°C, Power Input 12~36VDC or 10~24VAC
MX6012GLN-12SFP-VLW	Layer 3 Din-rail Managed, 12 x Gigabit SFP Fiber Port, Industrial Temperature -40°C to +85°C, Power Input 12~36VDC or 10~24VAC