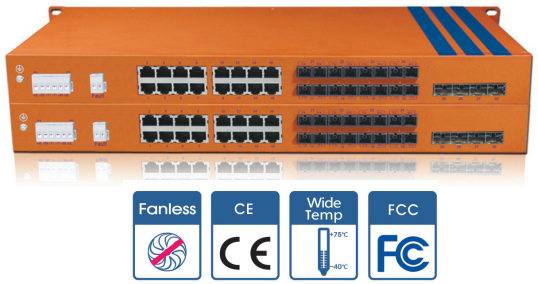
Product Information

MX6028L Series

Compliant with IEC61850-3 and IEEE1613

28-Port Rackmount Layer 3 Gigabit Managed Ethernet Switches



Features

- Supports RIP, OSPF, layer 3 routing protocols
- Up to 16 Gigabit Ethernet ports and 4 Gigabit SFP Slots
- Up to 8 optical fiber connections (SC/ST)
- Fanless, -40 to +85°C operating temperature range
- Universal 110/220VADC 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 MX6028L series Gigabit backbone switches are equipped with 16 Gigabit Copper Port, 8 100Mbps Fiber Port and 4 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 MX6028L'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,
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 :	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 :	RJ45 Port
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	Multi-mode	Single Mode	Single Mode
Transmission Distance	2km	20km	20km
Centre Wavelength	1310nm	1310nm	1310nm
Cable Size	62.5/125um	9/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm	-8~-2dBm
RX Power(dBm)	< -32dBm	< -32dBm	< -24dBm
Transmission Rate	100Mbps	100Mbps	1000Mbps

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

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)
Warranty	
Warranty Period :	3 years

Ordering Information

MX6028L Series

MX6028L-4SFP-8SC-2VLW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit SFP Slots, 2km, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028L-4SFP-8SSC-2VLW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit SFP Slots, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028L-4SFP-8ST-2VLW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with ST Connectors, 4 x Gigabit SFP Slots, 2km, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028L-4SFP-8SST-2VLW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with ST Connectors, 4 x Gigabit SFP Slots, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 48VDC
MX6028L-4SFP-8SC-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit SFP Slots, 2km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6028L-4SFP-8SSC-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit SFP Slots, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6028L-4SFP-8ST-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with ST Connectors, 4 x Gigabit SFP Slots, 2km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC
MX6028L-4SFP-8SST-VHW	Layer 3 Rackmount Managed, 16 x Gigabit Copper Port, 8 x 100Mbps Single-Mode Fiber Port with ST Connectors, 4 x Gigabit SFP Slots, 20km, Industrial Wide Temperature -40°C to +85°C, Power Input 120~370VDC or 85~264VAC