Product Information

MX6024 Series

IEC61850-3 and IEEE1613

24-Port Rackmount Managed Ethernet switches

Features

> IEC 61850-3, IEEE 1613 (power substations) compliant

> Up to 4 100Mbps Copper Port and 24 100Mbps SFP Slots

> RingOn (recovery time < 15ms), RSTP for Network Redundancy

> Port Mirror and Port Trunk with LACP

> -40 to +85˚C Operating Temperature Range (W models)

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Introduction

The MX6024 series is designed for power substation automation applications that operate in extremely harsh environments. The MX6024 series is compliant with IEC 61850-3, and its EMC immunity exceeds IEEE 1613 Class 2 standards to ensure zero packet loss while transmitting at wire speed. With Gigabit Ethernet, redundant ring, and 220VADC/110VAC isolated redundant power supplies, the MX6024 series further increases the reliability of your communications and saves cabling/wiring costs. The wide range of MX6024 models available support multiple types of port configuration, with up to 4 copper ports and 20 SFP Slots. Taken together, these features allow greater flexibility, making the MX6024 suitable for a variety of industrial application.

Specifications

Technology

Standard :	IEEE802.3, 802.3u, 802.3x, 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 :	Full Duplex Flow Control, Half Duplex Back Pressure Control
Protocols :	IGMP Snooping, GMRP, SNMPv1/v2c/v3, DHCP Client, HTTP, HTTPS, Telnet, NTP Client

Switch Properties

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

Interface

RJ45 Port :	10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed
Fiber Ports :	LC connector
Fiber Module :	100Base-FX SPF Module (Accessories are optional)
LED Indicators :	Power, Port Status, 10/100M
Console port :	DB9 male
Output Warning :	Relay, Standard 2 Pin

Power Requirements

Input Voltage :	120~370VDC @ 30W MAX 85~265VAC @ 30VA MAX
Input Connection :	Barrier type terminal blocks

Physical Characteristics

Case :	Slim Metal Case, IP30 Design
Dimensions :	443×44×350mm
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~-10dBm	-15~-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
Shock :	IEC 60068-2-27
Freefall :	IEC 60068-2-32
Vibration :	IEC 60068-2-6

Warranty

Warranty Period :	3 years

Ordering Information

MX6024 Series

MX6024-20SFP-VHW	Rackmount Managed, 4 x 100Mbps Copper Port, 20 x 100Mbps SFP Slots, 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