LP Technical Development Ltd

MARS4024

24 x 100M Layer2 Managed Ethernet Switch

Introduction

MARS4024 is an industrial grade, managed and redundancy Ethernet switch which 24 x 100M ports(10/100BASE-TX RJ45 Port, and 100BASE-FX fiber Port). It provided some kinds of advanced network managed function, like as: SM-Ring redundancy ring network, VLAN, Trunking, Quality of Service, Speed control, port mirroring, fault alarm and firmware upgrade online. SM-Ring can bring your Ethernet to intelligent redundancy. Standard Industry design, can satisfied every requirement of the industry scene. All components used industry grade, it takes products high reliability. It provided wide voltage power supply input.

Product complies with FCC and CE standards, in line with the industrial design requirements, for intelligent substation construction provides high-performance, high-quality products guaranteed. Support 1 channel power inputs and 1 relay alarm output, wide temperature range of -40~75℃ to be able to meet the requirements of all kinds of industrial field, can be widely used in electric power, water conservancy, transportation, and other fields.

1.Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W

2.SM-Ring ring network patent technology (Fault recovery time<20ms）

3.Support RSTP, way exchange time<50ms

4.Support static multicast, IGMP Snooping and GMRP

5.Support Port based VLAN and IEEE 802.1Q VLAN

6.Support QOS absolutely and opposite priority

7.Support rate control, Broadcast storm control

8.Support WEB, SNMP and Telnet configuration

9.Support MAC address learning, aging automatic

10.Support DHCP server and port frame statistics

11.Support email warning and relay warning

12.Support port status display, data update.

13.Support configuration file up and download

14.Support 1 channel relay alarm output

15.Industrial grade 4 design, -40-75℃ working temperature

16.IP30 protection grade, 19-inch rack mounting

17.No fan design

http://www.lptechnical.com

Specification

Technology

Standard: IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W

Protocol: ARP, ICMP, TCP, DHCP, DNS, HTTP, Telnet, SM-Ring, RSTP, SNMP

Flow control: IEEE802.3x flow control, Back-pressure based flow control

Function

Switch function: SM-Ring, QOS, 802.1QVLAN, RSTP, SNMP, Port trunking, static multicast filter, port mirroring, bandwidth management, broadcast storm control, port flow statistics, upgrade online, up and download configuration file, user name access system

SM-Ring: Support Single, Couple, Chain, Dual homing

Exchange attribute

100M forward speed: 148810pps

100M maximum filter speed: 148810pps

Transmit mode: store and forward

System exchange bandwidth: 12.8G

MAC address table: 8K

Memory: 4M

Interface

100M fiber port: 100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km optional), multi mode (2Km), wavelength: 1310nm, 1550nm

Console port: debug serial port carry out CLI command

Alarm port: 2 bit terminal block

1 channel relay alarm output

Transfer distance

Multi-mode: 1310nm, 2/5Km

Single-mode: 1310nm, 20/40/60Km

                1550nm, 80/100/120Km

LED indicator

Run indicator: Run

Interface indicator: Link (1~24)

Power supply indicator: PWR

Alarm indicator: Alarm

Power supply

Input Voltage: 100～240VAC

Type of input: 3 bits terminal block

Overload current protect: 1.2A

Consumption

No-load consumption: 22.0W

Full-load consumption: 23.0W

Working environment

Working temperature: -40～75℃

Storage temperature: -40～85℃

Relative Humidity: 5%~95 %(no condensation)

Mechanical Structure

Shell: IP30 protection grade, metal shell

Installation: 19" 1U rack

Size (W×H×D): 441.6mm×45mm×208.9mm

Industry Standard

EMI: FCC Part 15, CISPR (EN55022) class A

EMS: EN61000-4-2 (ESD), Leve 4

EN61000-4-3 (RS), Level 3

EN61000-4-4 (EFT), Level 4

EN61000-4-5 (Surge), Level 4

EN61000-4-6 (CS), Level 3

EN61000-4-8, Level 5

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Certification
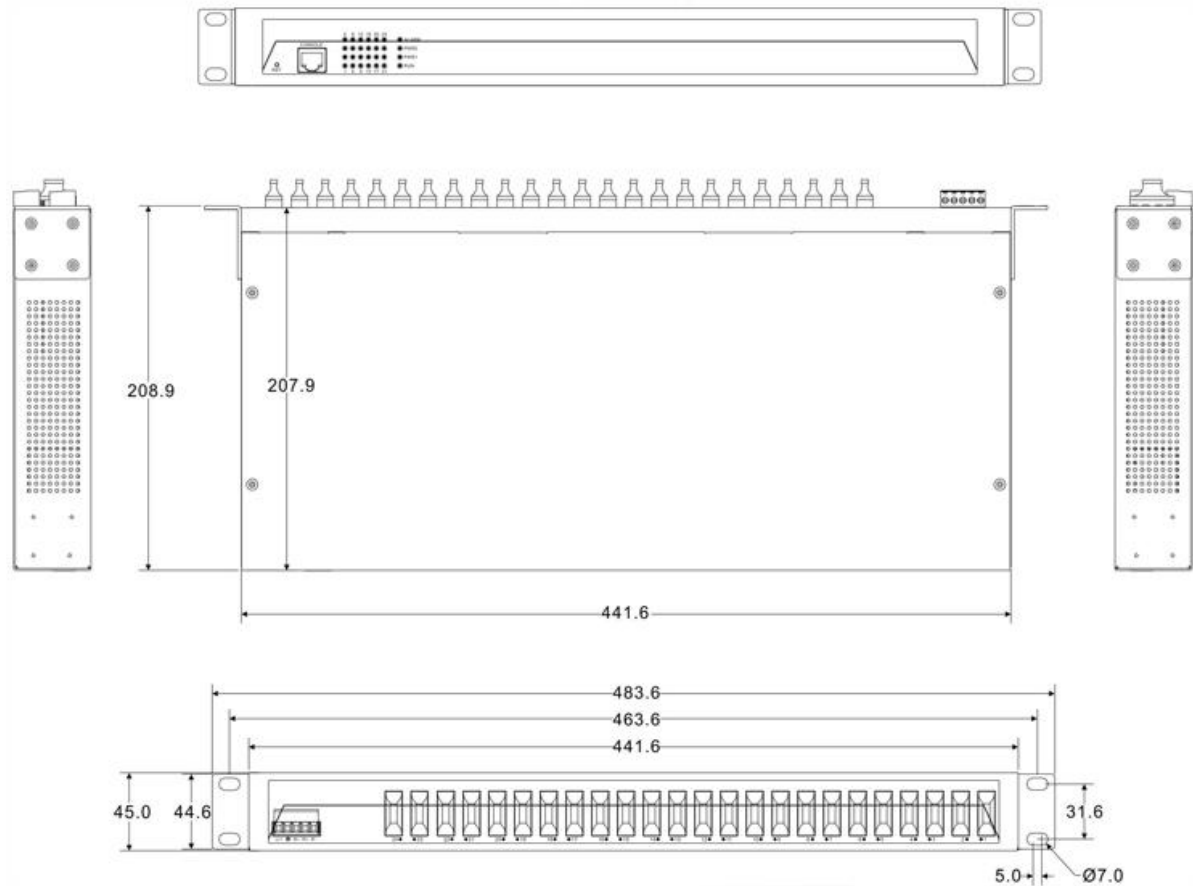
CE, FCC, RoHS, UL508 (Pending)

Warranty: 5 years

Packing list

1. Industrial Ethernet Switch MARS4024(plus terminal block) × 1

2. User manual × 1

3. Attached CD × 1

4. Certificate of quality × 1

5. Warranty card × 1

6. Power cable × 1

Dimension

Order Information

MARS4024-   _____ - _____ - _____ - _____ - _____

	Ports	Distance	Connector	FM	PS

Ports

24TX	=	24 x 10/100BASE-TX RJ45 Port
22TX/2FX	=	22 x 10/100BASE-TX RJ45 Port, 2 x 100BASE-FX fiber Port
20TX/4FX	=	20 x 10/100BASE-TX RJ45 Port, 4 x 100BASE-FX fiber Port
16TX/8FX	=	16 x 10/100BASE-TX RJ45 Port, 8 x 100BASE-FX fiber Port
12TX/12FX	=	12 x 10/100BASE-TX RJ45 Port, 12 x 100BASE-FX fiber Port
8TX/16FX	=	8 x 10/100BASE-TX RJ45 Port, 16 x 100BASE-FX fiber Port
4TX/20FX	=	4 x 10/100BASE-TX RJ45 Port, 20 x 100BASE-FX fiber Port
24FX	=	24 x 100BASE-FX fiber Port

Distance: Fiber Distance

1302	=	1310nm,2km,(multimode fiber)

1320	=	1310nm,20km
1340	=	1310nm,40km
1580	=	1550nm,80km

Connector: Fiber Connetor

SC	=	SC Connector
ST	=	ST Connector
FC	=	FC Connector

FM: Fiber Mode

SM	=	Single mode fiber
MM	=	Multi mode fiber

PS: Power Supply

HV	=	100VAC~240VAC,single power input
HV-HV	=	100VAC~240VAC, duel redundant power input

Example Order Codes

MARS4024-20TX/4FX-1320-SC-SM-HV-HV

20 x 10/100BASE-TX RJ45 Port, 4x 100BASE-FX SM SC Port,1310nm,20km,100VAC~240VAC,Duel redundant power input