MARS4028

24 x 100M + 4G Layer2 Managed Ethernet Switch

Introduction

MARS4028 is an industrial grade, managed and redundancy Ethernet switch which supports 24 100M Ports and 4 Gigabit (SFP slot) ports. 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. SM-Ring is an arithmetic designed as a rapid redundancy network. It provided recover technology for fault of rapid redundant network, the recovery time 20ms.

Product accorded to CE, FCC standard and Industry grade 4 design requirement, support 1 channel power input and 1 channel relay alarm output, and -40～75℃ working temperature, can meet all kinds of Industrial environment requirement. It can use in power, water conservancy, transportation area etc.

1.Support IEEE802.3, IEEE802.3u, IEEE802.3z, 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 Port based VLAN and IEEE 802.1Q VLAN

5.Support absolutely and opposite priority, support IEEE802.1P, DSCP priority

6.Support Based Tag port Tag trunking, IEEE802.3ad, 2 group trunking link

7.Support MAC address learning, aging automatic

8.Support rate control, Broadcast storm control

9.Support configuration file up and download

10.Support web configuration

11.Support 8K MAC address

12.Support static and dynamic IGMP

13.Support bi-directional port mirroring

14.Support 1 channel relay alarm output

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

16.No fan design, 19 inch rack mounting

17.IP30 protection grade

Technology

Standard: IEEE802.3, IEEE802.3u, IEEE802.3z, 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

1000M forward filter speed: 1488100pps

Transmit mode: store and forward

System exchange bandwidth: 12.8G

MAC address table: 8K

Memory: 4M

Interface

Electric port: RJ45 connector, 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect;

1000M fiber port: 1000Base-FX (SFP port)

Console port: debug serial port carry out CLI command

Alarm port: 2 bit terminal block

1 channel relay alarm output

Transfer distance

Twisted cable: 100M (standard CAT5/CAT5e cable)

LED indicator

Run indicator: Run

Interface indicator: Link (1~24/G1~G4)

Power supply indicator: PWR

Alarm indicator: Alarm

Power supply

Input Voltage: 100～240VAC

Type of input: 3 bits terminal block

Overload current protection: 1.2A

Consumption

No-load consumption: 7.4W

Full-load consumption: 13.1W

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
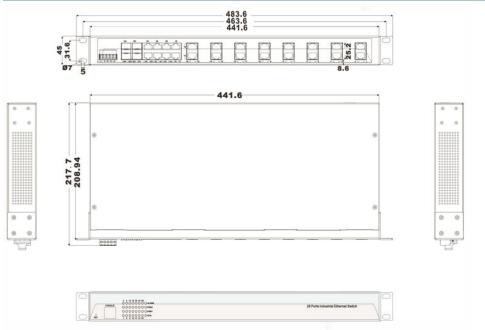
Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS, UL508 (Pending)

Warranty: 5 years

Packing list

1. Industrial Ethernet Switch MARS4028(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

MARS4028-	_____ -	_____ -	_____ -	_____ -	_____
	Ports	Distance	Connector	FM	PS

Ports

24TX/4GS	=	24 x 10/100BASE-TX RJ45 Port, 4 x Gigabit SFP Slot
22TX/2FX/4GS	=	22 x 10/100BASE-TX RJ45 Port, 2 x 100BASE-FX fiber Port,4 x Gigabit SFP Slot
20TX/4FX/4GS	=	20 x 10/100BASE-TX RJ45 Port, 4 x 1000BASE-FX fiber Port,4 x Gigabit SFP Slot
16TX/8FX/4GS	=	16 x 10/100BASE-TX RJ45 Port, 8 x 1000BASE-FX fiber Port,4 x Gigabit SFP Slot
12TX/12FX/4GS	=	12 x 10/100BASE-TX RJ45 Port, 12 x 1000BASE-FX fiber Port,4 x Gigabit SFP Slot
8TX/16FX/4GS	=	8 x 10/100BASE-TX RJ45 Port, 16 x 1000BASE-FX fiber Port,4 x Gigabit SFP Slot
4TX/20FX/4GS	=	4 x 10/100BASE-TX RJ45 Port, 20 x 1000BASE-FX fiber Port,4 x Gigabit SFP Slot
24FX/4GS	=	24 x 100BASE-FX fiber Port,4 x Gigabit SFP Slot

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

MARS4028-24TX/4GS-HV-HV

24 x 10/100BASE-TX RJ45 Port, 4x Gigabit SFP Slot,100VAC~240VAC,duel redundant power input

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