MARS3008

8 x 100M Layer2 Managed Ethernet Switch

Introduction

MARS3008 is a type of managed redundant Industrial Ethernet Switch, which support 8 * 10/100M Ethernet ports(RJ45) or 8 * 100M fiber ports, double power supply input and 1 route relay output. It supports SM-Ring patented technology (self-recovery time <20ms) to enhance the reliability of the network. What's more, MARS3008 supports several network managements, such as 802.1QVLAN, QoS, IGMP, port trunking and port mirroring. It has got the certification of CE, FCC and Industrial level 4 standard. It can meet the requirement of each type of industrial environment with the temperature range of -40 to 75 ℃.

1. Support 6 RJ45 Ethernet ports and 2 Fiber ports
2. SM-Ring(recovery time < 20 ms at full load)
3. Port-based VLAN, IEEE 802.1Q VLAN to ease network planning
4. Support IEEE802.1p,QOS
5. Support IGMP, Port Trunking and Port mirroring function
6. Support WEB management, easy- to-use
7. Design for industrial Level 4 standard
8. IP40 protection, rugged high-strength metal case
9. DIN-Rail or panel mounting

Specification

Technology

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

Protocol：SM-Ring、STP/RSTP、QoS、VLAN、IGMP v1/v2/v3、SNMP v1/v2c、Telnet

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: 2.0G

MAC address table: 2K

Memory: 1M

Interface

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

100M fiber port: 100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km optional), multi mode (2Km), wavelength: 850nm, 1310nm, 1550nm

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)

Multi-mode: 850nm , 2Km ; 1310nm, 5Km

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

                       1550nm, 80/100/120Km

LED indicator

Run indicator: Run

Interface indicator: Link (1~8)

Power supply indicator: PWR1, PWR2

Alarm indicator: Alarm

Power supply

Input Voltage: 24VDC (12~48VDC)

Type of input: 4 bits 7.62mm terminal block

Support dual power supply redundancy

Support reverse polarity protection

Support overload current protection

Consumption

No-load consumption: 3.0W@24VDC

Full-load consumption: 4.7W@24VDC

Working environment

Working temperature: -40～75℃

Storage temperature: -40～85℃

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

Mechanical Structure

Shell: IP40 protection grade, metal shell

Installation: DIN rail mounting

Weight: 800g

Size (W×H×D): 136 mm×52mm×105mm

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

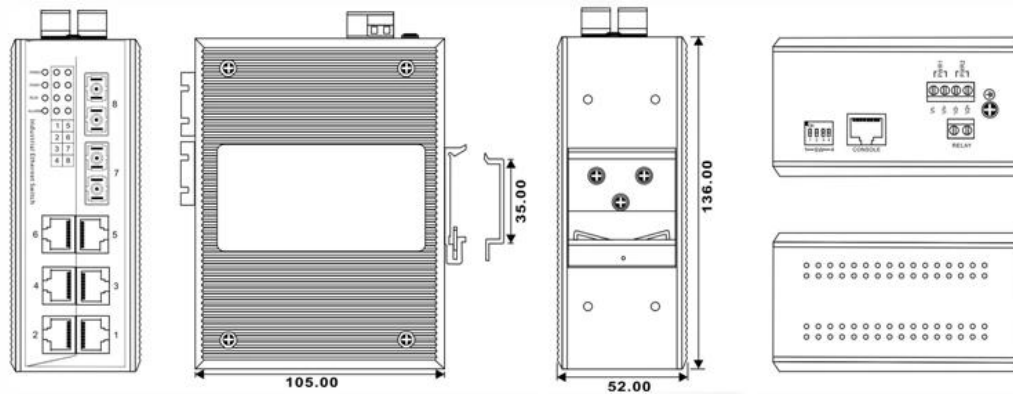Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS

Warranty: 5 years

Packing list

1. Industrial Ethernet Switch MARS3008(plus terminal block) × 1

2. User manual × 1

3. Attached CD × 1

4. Certificate of quality × 1

5. Warranty card × 1

Dimension

Order Information

MARS3008-	_____ -	_____ -	_____ -	_____ -	_____
	Ports	Distance	Connector	FM	PS

Ports

8TX	=	8 x 10/100BASE-TX RJ45 Port
6TX/2FX	=	6 x 10/100BASE-TX RJ45 Port, 2 x 100BASE-FX fiber Port
5TX/3FX	=	5 x 10/100BASE-TX RJ45 Port, 3 x 100BASE-FX fiber Port
4TX/4FX	=	4 x 10/100BASE-TX RJ45 Port, 4 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

L2	=	12～48VDC, duel redundant power input

Example Order Codes

MARS3008-6TX/2FX-1320-SC-SM-L2

6 x 10/100BASE-TX RJ45 Port, 2 x 100BASE-FX fiber Port,1310nm 20km, single mode,SC,12～48VDC,duel redundant power input