LP Technical Development Ltd

MARS3006

4 x 100M + 2G Layer2 Managed Ethernet Switch

Introduction

MARS3006 is an industrial grade, managed and redundancy Ethernet switch. It provided 4 Ethernet ports and 2 Gigabit (SFP slot) ports. 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 2 redundant power input and 1 channel relay alarm output, and -40～75℃ working temperature, can meet all kinds of Industrial environment requirement.

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 WEB, SNMP and Telnet configuration
5. Store and Forward switching process type
6. Support port Trunk and port mirror
7. Support configuration file up and download
8. Support IGMP snooping and static Multicast
9. Support Port based VLAN and IEEE 802.1Q VLAN
10. Support flow control, Broadcast storm suppression
11. Support redundancy power supply(12～48VDC)
12. Support 1 channel relay alarm output
13. Operating temperature range from -40 to 75°C
14. DIN rail mounting
15. Metal shell, IP40 protection grade

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Specification

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: 5.6G

MAC address table: 8K

Memory: 1M

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, LC connector)

Console port: debug serial port carry out CLI command

Alarm port: 2 bit 7.62mm terminal block

> 1 channel relay alarm output
> Load ability:1A@24VDC

Transfer distance

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

LED indicator

Run indicator: Run

Interface indicator: Link (1~4/G1~G2)

Power supply indicator: P1, P2

Alarm indicator: Alarm

Power supply

Input Voltage: 12～48VDC

Type of input: 4 bits terminal block

Overload current protect: 4.0A

Support dual power supply redundancy

Consumption

No-load consumption: 2.2W@24VDC

Full-load consumption: 5.5W@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

Size (W×H×D): 53mm×138mm×110mm

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

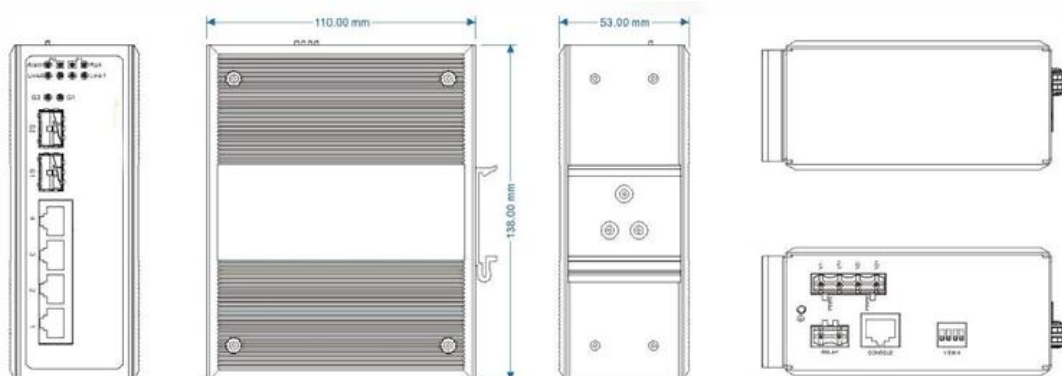Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS, UL508 (Pending)

Warranty: 5 years

Packing list

1. Industrial Ethernet Switch MARS3006(plus terminal block) × 1

2. User manual × 1

3. Attached CD × 1

4. Certificate of quality × 1

5. Warranty card × 1

Dimension

Order Information

MARS3006- _____ _____

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	Ports	PS

Ports		
4TX/2GS	=	4 x 10/100/1000BASE-TX RJ45 Port, 2 x Gigabit SFP Slot

PS: Power Supply		
L2	=	12-48VDC ,duel redundant power input

Example Order Codes

MARS3006-4TX/2GS-L2

4 x 10/100BASE-TX RJ45 Port, 2 x Gigabit SFP Slot, 12-48VDC ,duel redundant power input