



MARS1010

8 x 100M + 2G Unmanaged Ethernet Switch



Introduction

MARS1010 is a type of plug-and-play industrial unmanaged redundant Ethernet switch, which supports 8 * 10/100M ethernet ports or 100M fiber port and 2 gigabit ethernet ports (SFP slots). No fan, low consumption and industrial grade design. More steadily work capability. To satisfy applications in different industrial environments, MARS1010 can also provide wide temperature type in accommodation with limit temperature (-40 ~ 75C).

- 1.Support 8 * 10/100M Ethernet ports or 100M fiber port and 2 gigabit Ethernet ports (SFP slots)
- 2.Support IEEE802.3/802.3u /802.3x
- 3.Support 10/100M, half/full duplex, MDI/MDI-X
- 4.Support broadcast storm shield
- 5.DC12~48V Power input
- 6.Support industrial grade 4 level
- 7.IP30 protection, metal shell, DIN Rail mounted

Specification

Technology

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

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

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



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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: 1310nm, 1550nm

1000M fiber port: 1000Base-FX (SFP port, LC connector)

Transfer distance

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

LED indicator

Interface indicator: Link (1~10)

Power supply indicator: PWR

Power supply

Input Voltage: 24VDC(12~48VDC)

Type of input: 4 bits 7.62mm terminal block

Support dual power supply redundancy

Support over-current protection

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: DIN-Rail mounted

Size (W×H×D): 136mm×52mm×105mm

Weight: 800g

Industry Standard

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

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

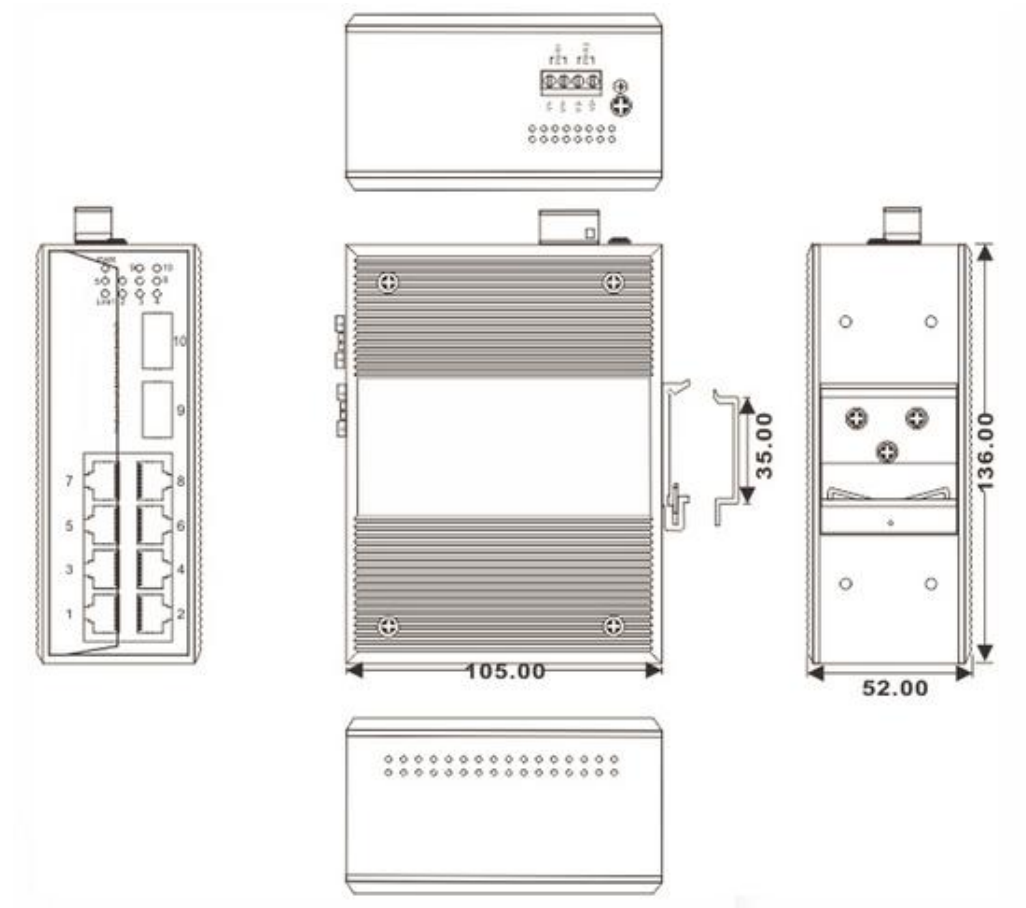
CE, FCC, RoHS

Warranty: 5 years

Packing list

1. Industrial Ethernet Switch MARS1010(plus terminal block) × 1
2. User manual × 1
3. Certificate of quality × 1
4. Warranty card × 1

Dimension



Order Information

MARS1010-

Ports

Distance

Connector

FM

PS

Ports

8TX/2GS = 8 x 10/100BASE-TX RJ45 Port, 2 x Gigabit SFP Slot

4TX/4FX/2GS = 4 x 10/100BASE-TX RJ45 Port, 4 x 100BASE-FX fiber Port, 2 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

L2 = 12~48VDC, duel redundant power input

Example Order Codes

MARS1010-4TX/4FX/2GS-1320-SC-SM-L2

4 x 10/100BASE-TX RJ45 Port, 2 x Gigabit SFP Slot, 4 x 100BASE-FX fiber Port,1310nm 20km, single mode,SC,12~48VDC,duel redundant power input