

MARS1002

2 x 100M Industrial Media Converter



Introduction

MARS1002 is a fast 10/100Base-TX Industrial Ethernet Media Converter, easy to connect server, repeater, switch, device to device, it can satisfy customers require for long distance, high speed, wide broadcast. Beside this, MARS1002 supports electric working mode/rate setting. MARS1002 series support 1 TP ports and 1 fiber ports. TP(RJ45) support 10/100Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection; 100BaseFX supports single-/multi-mode, SC/ST connector, optional.

MARS1002 adopts industry standard design, IP30 protection, rugged high-strength metal case, power supply input(12V~48VDC), -40 to 75°C working temperature.

- 1. IEEE802.3/802.3u/802.3x,store and forward
- 2. Provide 1 port 10/100Based-TX and 1 port 100M optic fiber
- 3. 10/100M, F/H duplex, MDI/MDI-X auto negotiation
- 4. -40 to 75°C operating temperature range
- 5. Designed for industrial applications. IP30 protection, rugged high-strength metal case, DIN rail mount
- 6. Plug-and-play, easy to installation

Specification

Technology

Standards: IEEE802.1 10Base-T, IEEE802.3u, 100Base-TX, IEEE802.3 100Base-FX

RJ45 port rate: 10/100BaseT(X) auto connection, F/H duplex or force work mode and MDI/MDI-X

connection

Fiber Ports: 100BaseFX ports (SC/ST optional) Single-mode: 20, 40,60, 80, 120Km,optional

Multi-mode: 2Km

Wavelength: 850nm, 1310nm, 1550nm

Typical 100Base-FX:

Multi-mode: 155Mbps, 1310nm, 2Km,

average output≥-18dBm, sensitivity≤-35dBm



Single-mode: 155Mbps, 1310nm, 20Km, average output≥-12dBm, sensitivity≤-36dBm

Power

Input Voltage: 24VDC (12VDC~48VDC)

Opposite connection protection

Connector: 3 bit 7.62mm terminal block No load consumption: 1.2W@24VDC Full load consumption: 1.368W@24VDC

Indicator

Port indicator: TLINK, FLINK

Power indicator: PWR

Mechanical

Dimensions: 110mm×35mm×95mm (H×W×D)

Casing: IP30 protection, Metal case

Weight: 340g
Environmental

Operating Temperature: -40 to 75°C Storage Temperature: -45 to 85 °C

Ambient Relative Humidity: 10% to 95% (non-condensing)

Approvals

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

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

EN61000-4-3(RS), level 4 EN61000-4-4(EFT), level 4 EN61000-4-5 (Surge), level 4 EN61000-4-6 (CS), level 4

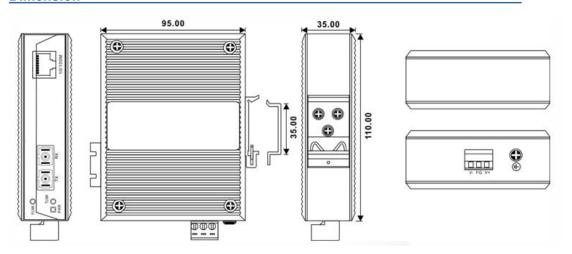
EN61000-4-8, level 4 EN61000-4-11, level 4

Shock: IEC 60068-2-27 PASS Free Fall: IEC 60068-2-32 PASS Vibration: IEC 60068-2-6 PASS

Warranty: 5 years



Dimension



Order Information

MARS1002-					. <u> </u>
	Ports	Distance	Connector	FM	PS
<u>Ports</u>					
1TX/1FX	= 1 x 10/	100BASE-TX RJ4	15 Port, 1 x 100BAS	E-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 \sim 48VDC, duel redundant power input



Example Order Codes

MARS1002-1TX/1FX-1320-SC-SM-L2

1 x 10/100BASE-TX RJ45 Port, 1 x 100BASE-FX fiber Port,1310nm 20km, single mode,SC,12 \sim 48VDC,duel redundant power input