

Model3010

10/100M Ethernet SFP Media Converter (SM & MM)

Introduction:

The high performance Fiber Link Ethernet Extenders provide up to 120KM of Ethernet extension over single-mode fiber. The Model 3010 is ideal for campus networks, connecting remote LANs, and facilitating the optical last-mile connection to the metropolitan-area network (MAN) and beyond.

It provides a cost effective plug-and-play solution for long-range 10Base-T or 100Base-TX Ethernet extensions and added benefit of 10/100 auto-negotiation, making it the perfect choice when planning future upgrades of 10Base-T networks. Ethernet Fiber converters are ultra-miniature in size and feature a shielded RJ45 Ethernet jack, SFP style fiber-optic connections. Built-in auto-sensing capabilities enable full or half-duplex Ethernet operation with no configuration required!

Packing List:

Model3010 is shipped with following items.

- 1. Model3010 × 1
- 2. 5VDC power adapter $\times 1$ (Media converter/5VDC)
- 3. User manual $\times 1$

Features:

- Accord to IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3 100Base-FX
- 2. MDI/MDI-X auto negotiation, 10M/100M auto negotiation
- 3. Supports full /half duplex, Point-to-point transparent transfer
- 4. Power External 5VDC input
- 5. Plug-and-play, easy to installation
- 6. Can insert to 2U 19", 14 slots Rack(power external)

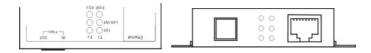
Pinout Configuration:

Power

Model3010 adopt the power supply input is 5VDC external.



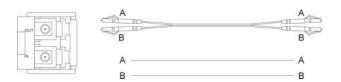
Ethernet(RJ45),Optical fiber interface



Optical fiber interface:

Optic fiber interface need use in pairs, OUT port is fiber send side, connect another long-range light of interface fiber receive end IN; IN port is fiber receive side, connect long-range same fiber send side.

Optic fibers spent both ends mark the label (the following picture show: A-A, B-B, can also mark another: A1-A2, B1-B2), in order to use.



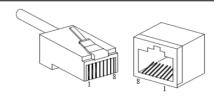
Ethernet interface:

Ethernet(RJ45) interface supports MDI/MDI-X auto negotiation, can use straight-through cable connect PC or server, use across-over connect cable Switch or HUB.

MDI: PIN 1, 2, 3, 6 connects opposite.

MID-X: $1\rightarrow 3$, $2\rightarrow 6$, $3\rightarrow 1$, $6\rightarrow 2$

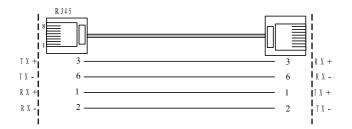
MDI/MDI-X 10Base-T/100Base-TX PIN define as follow:



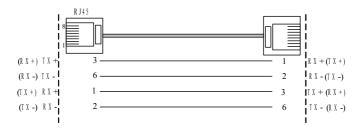
	PIN	MDI	MDI-X
	1	TX+	RX+
	2	TX-	RX-
	3	RX+	TX+
	6	RX-	TX-
	4、5、7、8	_	_

Note: "TX±" Transfer data±, "RX±" Receive data±, "—" None。

MDI:



MDI-X:



LED indications:

	LED	Color	Description	
	100	Green	ON:100Mbps	
			OFF:10Mbps	
	Link/Act	Green	Blinking when fiber is	
FX			transmitting data	
	FDX	Green	Blinking when has data	
			conflict	
	100	Green	ON:100Mbps	
TX			OFF:10Mbps	
	Link/Act	Green	Blinking when fiber is	
			receiving data	
PWR		Green	ON: power is ON	

Specifications:

Standards: comply with IEEE802.1 10Base-T, IEEE802.3u

100Base-TX, IEEE802.3 100Base-FX

RJ45 port rate: 10/100Mbps auto negotiation

Optic port rate: 100Mbps

Transfer distance: RJ45port: 100m

Fiber optic:20,40,60,80,120km(SM),

2, 5 km(MM) optional

RJ45 port cable: UTP 5E Fiber connector: $2 \times LC$

Fiber optic cables: Single Mode:8.3/125,8.7/125,9/125 or 10/125

um

Muti-Mode: 50/125,62.5/125 um

Wavelength:850nm,1310nm,1550nm

Power supply: External 5VDC input

Dimensions: $94.0 \text{mm} \times 71.0 \text{mm} \times 26.0 \text{mm}$

Installation: support DIN-Rail installation

Operating temp:-10°C to 65°C

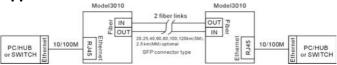
Storage temperature: -20 to 70°C

Operating humidity: 5% to 95%(no condensation)

Warranty: 5 years

Approvals: FCC,CE, RoHS approvals

Applications:

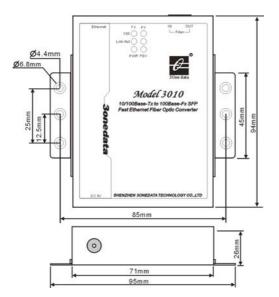


Extending 10/100M Ethernet data distance

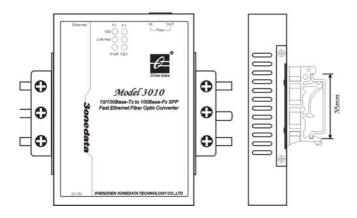
Installation:

Model3010 provides DIN-rail and wall mounting two types of installation.

Wall mounting installation



DIN-Rail Installation



Troubleshooting instructions:

- 1. Make sure the power is connected and turned on.
- Make sure the converter Ethernet and fiber optic cables are connected properly.
- 3. Check the connections according to the connection diagram.
- 4.Check the LED Indication status and identify possible problems from the Indication LED table above

Note:

- Media Converter is a sensitive electronic item, please do handle with extra care on delivery, shifting and humidity.
- 2. This unit will be warranty for 5 years.
- Whenever there is a problem regarding the quality issue within the warranty period, we will take the responsibility to repair with free.
- 4. After the warranty period, we will charge accordingly depending on the fault or damage.
- 5. Whenever there is a fault, you can contact our technical support after you identify the problem and the alarm.

Common Problems:

1. PWR power supply indicator lamp not lighting

Cause:

- 1. Power supply not properly connected
- 2. Protector tube damaged
- 3. Power input tie-line in reverse connection
- 4. Internal power supply circuit with failure

Solution:

- 1. Check power switch and jack
- 2. Replace protector tube
- 3. Correct power supply line connection
- 4. Returned to the manufacturer for repair.

2. FX Port Link/Act indicator lamp not lighting

Cause:

Optic fiber port link is fault.

Solution:

- 1. Check fiber optic is link or not.
- 2. Check fiber optic loss is high.
- 3. Clean the connector of optic interface.
- 4. Insert the well connector in place.
- 5. Returned to the manufacturer for repair.

3. TX Port Link/Act indicator lamp not lighting

Cause:

Ethernet port link is fault.

Solution:

- 1. Check Ethernet(RJ45) line is link or not.
- 2. Check Ethernet(RJ45) port is loose.
- 3. Check the rate of selected media converter
- 4 Check the rate of Network
- 5. Returned to the manufacturer for repair.

4. Network packet loss

Solution:

- 1. Check Ethernet rate or full/half duplex is matched or not.
- Ethernet(RJ45) port is loose contact, or optic port is loose contact and soiled.
- 3. Ethernet cable not comply with Ethernet standard.

Certifications:















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