Model1100SS

10/100M Media Converter

(SS: single-mode single fiber)

Introduction:

Model1100SS, 10/100M Media Converter, 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. Model1100SS Ethernet Fiber converters are ultra-miniature in size and feature a shielded RJ45 Ethernet jack, SC/ST/FC style single-mode single fiber-optic connections. Built-in auto-sensing capabilities enable full or half-duplex Ethernet operation with no configuration required!

Packing List:

Model1100SS is shipped with following items.

1. Model1100SS × 1
2. 5VDC power adapter × 1(Media converter/5VDC)
3. User manual × 1

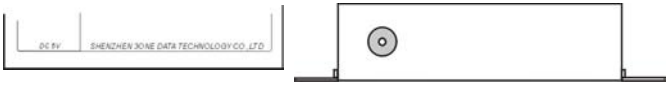
Features:

1. 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 5VDC input
5. Plug-and-play, easy to installation
6. Can insert to 2U 19", 14 slots Rack(power external)

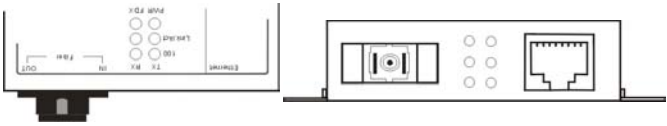
Pinout Configuration:

Power

Model1100SS adopt the power supply input is 5VDC External.



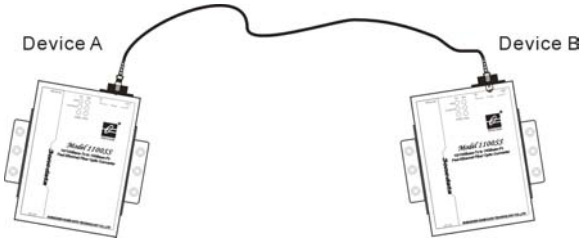
Ethernet(RJ45),Optical fiber interface



Optical fiber interface:

The optical fiber connection supports single-mode single fiber(1 × SC, 1 × FC,1 × ST, optional).

For Link : A-to-B(The mark A device link to the mark B device)



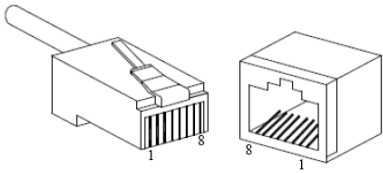
Ethernet interface:

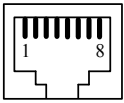
Ethernet(RJ45) interface supports MDI/MDI-X auto negotiation, can use straight-through cable connect PC or server, use across-over connect cable Switch or HUB.

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

MID-X: 1→3, 2→6, 3→1, 6→2

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

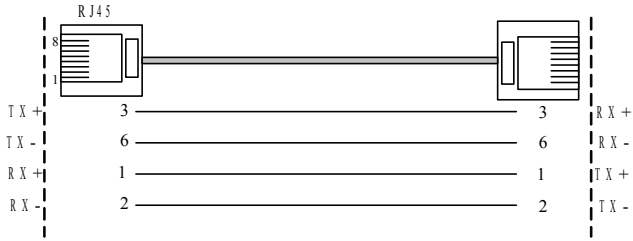




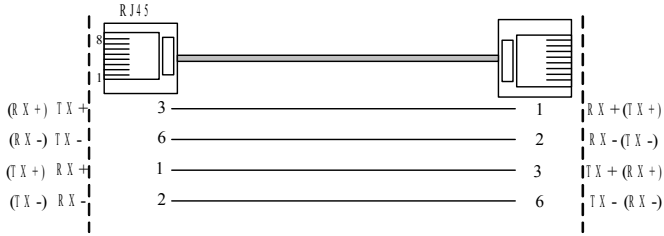
PIN	MDI	MDI-X
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4、5、7、8	—	—

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

MDI:



MDI-X:



LED indications:

LED	STATE	INDICATION
PWR (Power)	OFF	Power Off
	BRIGHT	Power On
100 (10/100M)	OFF	10M Ethernet
	BRIGHT	100M Ethernet
FX (Fiber Link Port)	OFF	Fiber Optic Unit is Faulty
	BRIGHT	Fiber Optic Unit is Functional
Link/Act (TX)	OFF	Ethernet is not Connected

(TX Port Link/Activity)	FLASHING	Transmitting or Receiving Data
	BRIGHT	Ethernet is Connected
Link/Act (FX) (FX Port Link/Activity)	OFF	Fiber Links are not Connected
	FLASHING	Transmitting or Receiving Data
	BRIGHT	Fiber Links are Connected
FDX (Full Duplex/Collision)	OFF	Half-Duplex Mode or Network Disconnected
	FLASHING	Data Collision Detected
	BRIGHT	Full-Duplex Mode

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), optional

RJ45 port cable: UTP 5E

Fiber connector: 1 × SC, 1 × ST, 1 × FC, optional

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

Wavelength: 1310nm (Device A) 1550nm(Device B)

Power supply: External 5VDC input

Dimensions: 94.0mm × 71.0mm × 26.0mm

Installation: support DIN-Rail installation

Operating temp:-10°C to 65°C

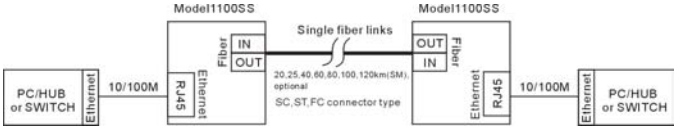
Storage temperature: -20 to 70°C

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

Warranty: 5 years

Approvals: FCC,CE, RoHS approvals

Applications:

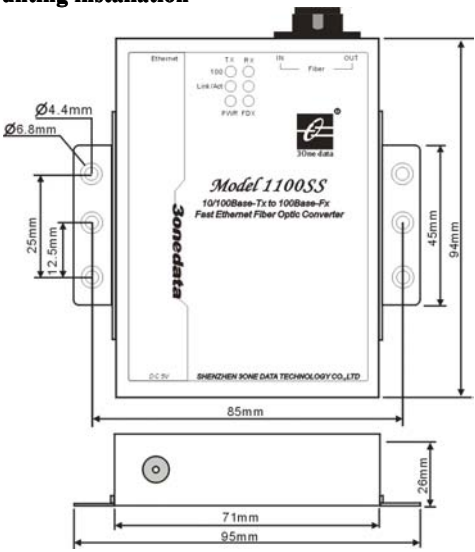


Extending 10/100M Ethernet data distance

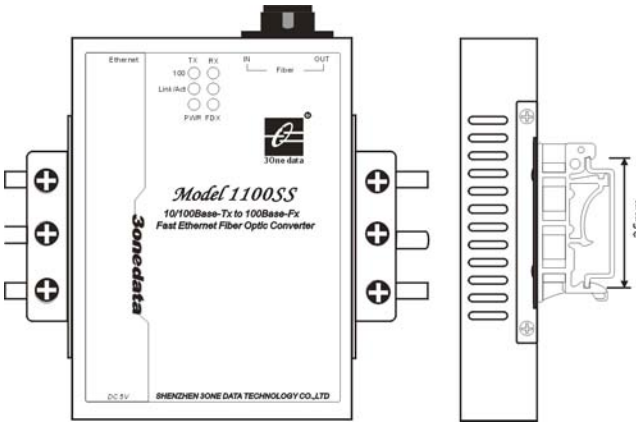
Installation:

Model1100SS 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.

2.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:

1. 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.
3. 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.
2. 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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