

Model 1100S

10/100M Ethernet media converter User manual

【Overview】

The high performance Fiber Link Ethernet Extenders provide up to 120KM of Ethernet extension over single-mode fiber. The Model 1100s 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 RJ-45 Ethernet jack, SC/ST/FC style fiber-optic connections. Built-in auto-sensing capabilities enable full or half-duplex Ethernet operation with no configuration required!

【Package Checklist】

Before you start to install the converter, please verify that the package contains the following:

- 1 Power Supply adapter
- 1 set of media converter
- 1 User Manual

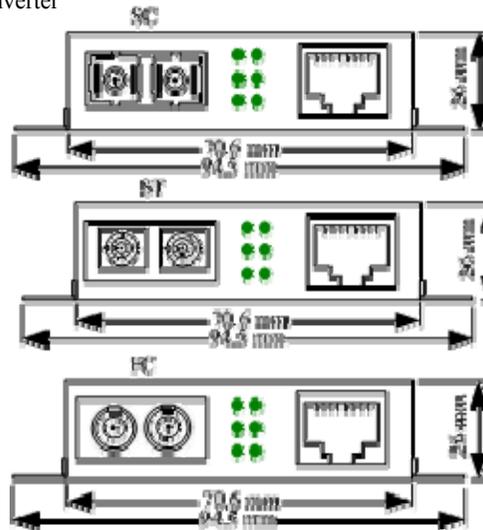
Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

【Function and Characteristic】

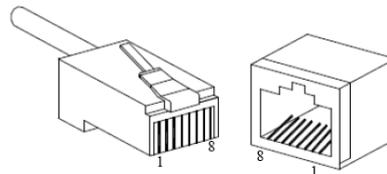
- Accord to IEEE802.3 10Base-T, 100Base-TX, 100Base-FX
- MDI/MDI-X auto negotiation, 10M/100M auto negotiation
- Supports full-duplex/half -duplex, Point-to-point transparent transfer
- Power Internal(12VDC, -48VDC, 220VAC) and External (5VDC), optional

【PIN Define】

Media converter has RJ45 port and SC, ST or FC converter



RJ45 (Ethernet port) PIN define



RJ45 port supports MDI/MDI-X auto negotiation, can use straight-line connect PC or server, use across line connect Switch or HUB.

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

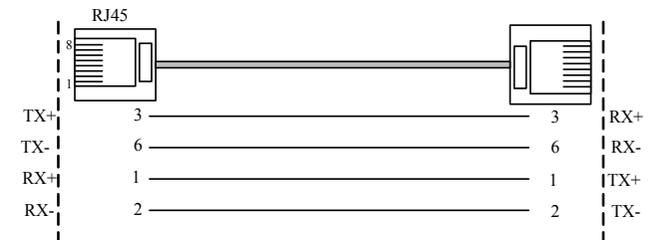
MID-X :1→3, 2→6、 3→1, 6→2

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

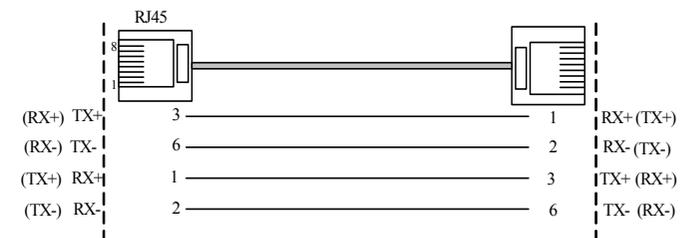
PIN	MDI	MDI-X
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4、 5、 7、 8	—	—

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

MDI:



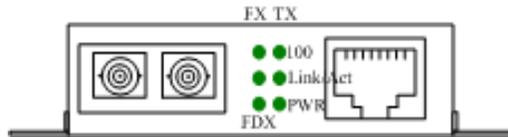
MDI-X:



100BaseFX optic port

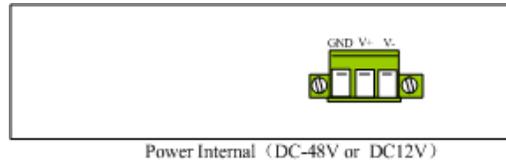
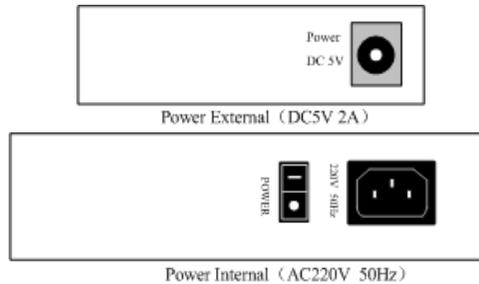
100Base-FX full-duplex single-mode optic port has SC, ST or FC optional

【LED indicator light】

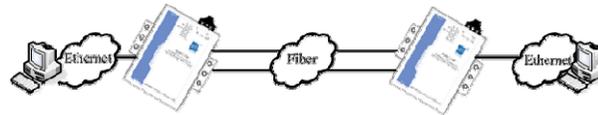


	LED	Color	Description
FX	100	Green	ON:100Mbps OFF:10Mbps
	LNK/ACK	Green	Blinking when fiber is transmitting data
	FDX	Green	Blinking when has data conflict
TX	100	Green	ON:100Mbps OFF:10Mbps
	LNK/ACK	Green	Blinking when fiber is receiving data
	PWR	Green	ON: power is ON

【Back panel】



【Type application】



【Specification】

Standard: Accord to IEEE802.3 10 Base-T, 100Base-T, 100Base-F

RJ45 port signal : R+, R-, T+, T-, GND

Optic port signal: IN, OUT

RJ45 port rate: 10/100Mbps auto negotiation

Optic port rate: 100Mbps

Working: Asynchronism, point to point

RJ45 port transmission:100m

Optic port transmission: 25-120Km (single-mode)

RJ45 port cable: UTP 5E

Optic port cable: single-mode: 8.3/125, 8.7/125, 9/125 or 10/125μm

Wavelength: 1310nm (25Km, 40Km) 1550nm(120Km),

RJ45 port connector: RJ45

Optic port connector: SC, ST or FC

Environment

Operating temperature: -0°C to 65°C

Storage temperature: -20°C to 70°C

Humidity: Relative humidity 5% to 95%

Power supply

Power Internal(12VDC, -48VDC, 220VAC) and External (5VDC), optional
Consumption:4W

Dimension

L×W×H:

94.0mm×70.6mm×26.0mm(Power External)
160.5mm×110mm×27mm(Power Internal)

Shell: Iron

Color: White

Weight: 230g

【Note】

- Media Converter is a sensitive electronic item, please do handle with extra care on delivery, shifting and humidity.
- This unit will be warranty for 3 year.
- Whenever there is a problem regarding the quality issue within the warranty period, we will take the responsibility to repair with free.
- After the warranty period, we will charge accordingly depending on the fault or damage.
- Whenever there is a fault, you can contact our technical support after you identify the problem and the alarm.