

# Model 1100SS

## 10/100M Ethernet media converter

### User manual

#### Shenzhen 3onedata Technology Co., Ltd

ADD: 3/F,B/2,Jiuxiangling Industrial District, Xili Town,  
Nanshan District,Shenzhen,518055 China

Website: [www.3onedata.com](http://www.3onedata.com)

TEL:+86 0755-26702668

FAX: +86 0755-26703485

#### 【Overview】

The high performance Fiber Link Ethernet Extenders provide up to 120KM of Ethernet extension over single-mode fiber. The Model 1100SS 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 media converter
- 1 User Manual

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

#### 【Function and Characteristic】

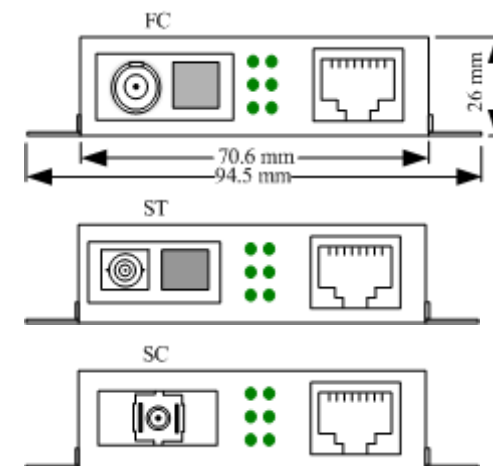
- Accord to IEEE802.3 10Base-T, 100Base-TX, 100Base-FX
- MDI/MDI-X auto negotiation, 10M/100M auto

negotiation

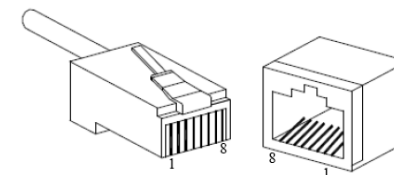
- Supports full-duplex/half -duplex, Point-to-point transparent transfer
- Power Internal(12VDC, -48VDC, 220VAC) and External (5VDC), optional

#### 【PIN Define】

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



#### RJ45 (Ethernet port) PIN define

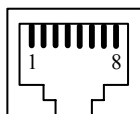


RJ45 port supports MDI/MDI-X auto negotiation, can use straight-line connect PC or server, use across line connect Switch or HUB.

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

MID-X :1→3, 2→6, 3→1, 6→2

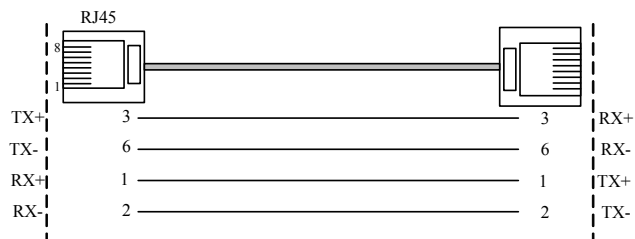
MDI/MDI-X 10Base-T/100Base-TX Pin define as follow:



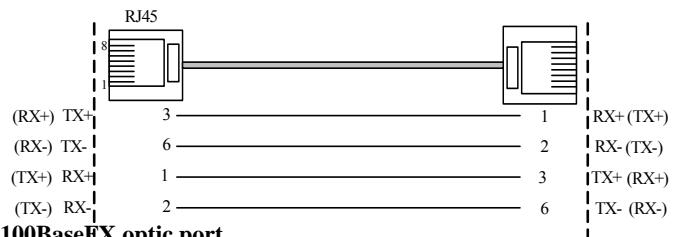
PIN	MDI	MDI-X
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4, 5, 7, 8	—	—

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

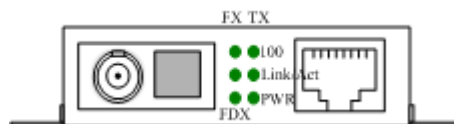
MDI :



MDI-X:



### 【LED indicator】



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

### 【Back panel】



Power External (DC5V 2A)



Power Internal (AC220V 50Hz)



Power Internal (DC-48V or DC12V)

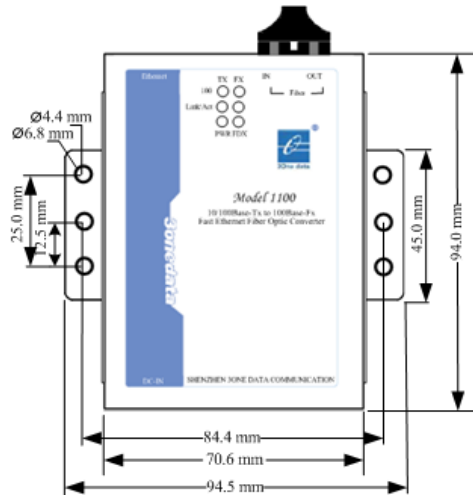
### 【Type application】



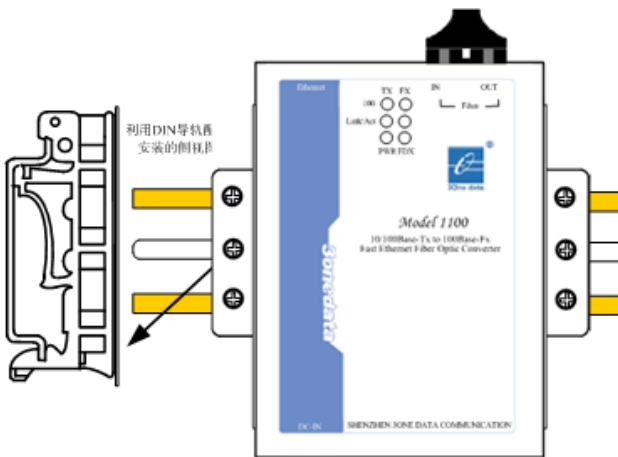
## 【Installation】

MODEL1100SS provides DIN-Rail and wall mounting 2 installation methods:

### Wall mounting



### DIN-Rail



## 【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(single fiber)

**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℃ to 55℃

Storage temperature: -20℃ to 70℃

Humidity: Relative humidity 5% to 95%

### Power supply

**External 5VDC input,** (Power Internal 12VDC, -48VDC,  
220VAC 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.