

10/100Mbps bi-di 10/100BASE-T Fast Ethernet  
**Media Converter**  
 NMC-3312/3313 User's manual  
 Rev: 2.1



**1. Overview**

The Media Converter complies with IEEE802.3, IEEE802.3u, IEEE802.3x Standards. It is designed to convert data signal between 100 Base-Tx and 100 Base-Fx fast Ethernet. The data signal converted by such high performance media converter can be transmitted up to 20Km maximum by fiber-optical cable.

The Converter is equipped with two fiber optic connectors (One for transmitting-Tx and another for receiving-Rx), two RJ-45 Jacks and one external power supply receptacle. Six LED indicators are built-in for easy diagnosing and monitoring the status of power, Unshielded Twisted Paired (UTP) Link, UTP Activity, Fiber Link, Fiber Activity, Full duplex and data rates. It can be configured automatically for Full Duplex or Half Duplex operation.

It is compact, cost-effective, low dissipative, high reliable and stable. It can be used in standalone applications or Rack-Mounted applications where multiple media converter can be inserted into a rack-mount chassis (Up 10 units) and allowing all the converters to be powered by

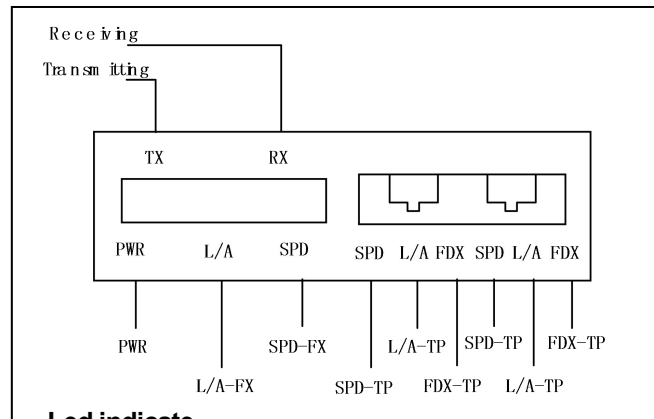
a single internal power supply.

**2.0 Specifications:**

**2.1 Performance Introduction**

Parameter	Type
Data Rate(Mbps)	10/100
Optical Wavelength(nm)	1310/1550
Fiber Type(μm)	Single Mode 9/125*
Connector Type	SC
Max Distance(Km)	20Km
Power Supply	AC110-220V/+5V DC, 1A
Operating Temperature	0-70°C
Storage Temperature	-40~80°C
Relative Humidity	5% to 90% non condensing
EMI and Safety	CE, FCC Class A
Dimensions	170mm×120mm×30mm

**Front Panel**



**Led indicate**

LED	Color	Function
L/A-FX	Green	Lit when fiber connection is good Blink when fiber data is active
SPD-FX	Green	Blink when fiber data is active
L/A-TP	Green	Lit when TP connection is good, Blink when TP data is active
SPD-TP	Green	Lit, 100Mbps; Non-light 10Mbps
FDX	Green	Lit when full-duplex mode is active
PWR	Green	Lit when +5V power is coming up

**3.0 Installing the Converter**

3.1 For as a stand along unit.

3.11 Verify if the AC-DC adapter conforms to your country AC power requirement then insert power plus

3.12 Check the type of UTP(se fig.1)

UTP complies With IEEE802.3 Standards, and has two types:T568A T568B.

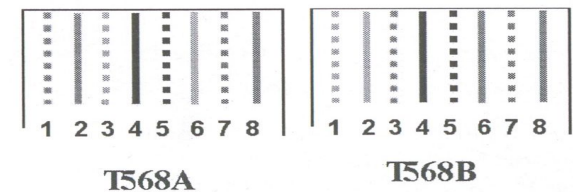


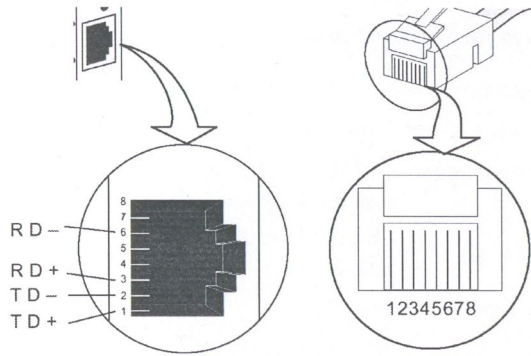
Fig.1 The type of UTP

**NOTE: G: Green; O: Orange; B: Blue; P: Palm**

**Parallel cable:** connect T568A to T568A, or T568B to T568B

Crossing-over: connect T568A to T568B

3.1.3 TP Port List (Fig.2)



## 4.0 Installing

### 4.1 TP port installing

The RJ-45 port can connect the parallel lines “=” or The cross lines “X”

### 4.12 Fiber port installing

Connect the fiber-optic transceiver on the media converter with the Single-mode SC fiber connectors.

### 4.13 Connect to switch power adaptor

4.14 Check the appearance that converter instructions light. If connection right, the PWR,L/A LED is bright; Otherwise checking the Fiber port and TP port.

**Note: Connecting to Router, Bridge or Switch. Please refer to the device's Technical Manual.**