Media Converter 10/100M

User Manual

V1.2

Please read before using the converter

Content

1. Brief Introduction

Thanks for purchasing Fast Ethernet media converter! This product supports IEEE802.3U 100Base-Tx/ Fx protocol, as well as full duplex and half duplex mode. This manual is for adaptive 10/100M optical media converter.

10/100M media converters

10/100M media converters with DIP Switch (LFP)

10/100M 2-TX media converters

2. Main features

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Packet size up to1600bytes
- Supporting VoIP / QoS packets
- Support flow control and reduce broadcast packets
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, wall mounting, chassis installation

3. Packing list

Please check the following items in the package before installing the converter.

Fast Ethernet optical media converter   1piece

AC/DC adapter (external)   1piece
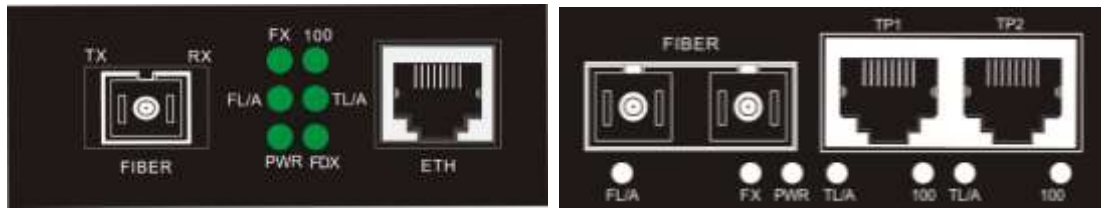
Power cord (internal)   1piece

User manual   1copy

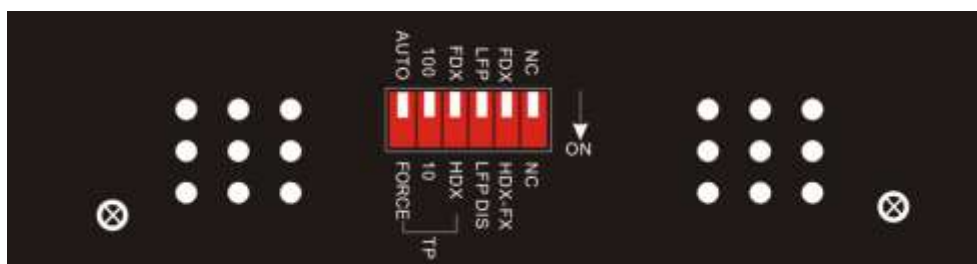Please contact the dealer immediately for any missing or damaged items.

4. Panels

5. LED indicators

Name	Define	State	Function
PWR	Power Indicator	On	Power is on and normal
FL/A	Fiber Link Indicator	On	Fiber link is in correct connection
		Blink	Signal packet goes through Fx end
TL/A	Electric Link Indicator	On	Electric link is in correct connection.
		Blink	Signal packet goes through Tx end
100	Data Rate Indicator	On	100M
		Off	10M
FX	Fiber Signal Indicator	On	Fiber link is in correct connection
		Off	Fiber link is not in correct connection
FDX	Tx Mode Indicator	On	Full duplex mode
		Off	Half duplex mode

6. DIP Switch

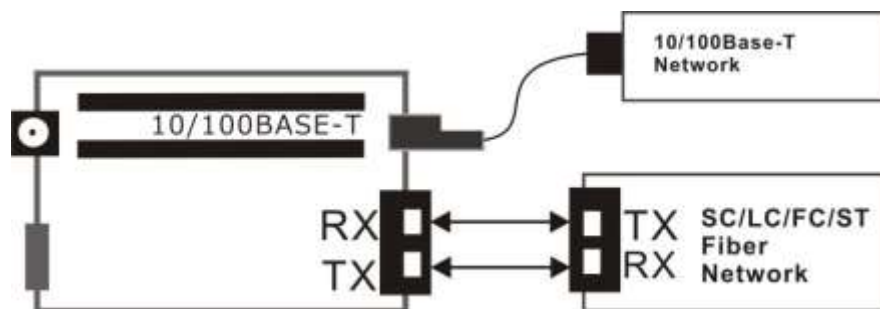| Switch	Status	Function
DIP1	ON	100 FDX
DIP1,DIP3	ON	100 HDX(TP)
DIP1,DIP2	ON	10 FDX
DIP1,DIP2,DIP3	ON	10 HDX(TP)
DIP4	ON	Enable LFP function
DIP5	ON	Cut-through mode

7. Technical parameters

Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X)
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC as default, FC/ST/SFP slot Optional Distance: MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km
Power supply	Working power: DC5V 1A AC Power Supply: 100V~ AC240V to 5V1A Or DC Power Supply: -36~-72V to 5V1A External / Internal Power Supply Optional
Environment	Operating temperature : -20~65ºC Storage Temperature: -40~85ºC Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)

8. Installation Procedure

1) Connect the network device (work station, hub or switch) to the RJ-45 jack of the media converter through twisted-pair CAT5.
2) Connect the multi-mode /single mode fiber to fiber interface of the media converter.
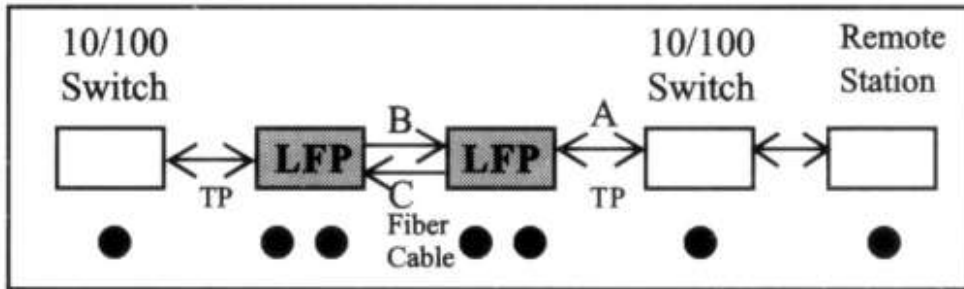3) Turn the power on. The corresponding LED is on for a correct connection.
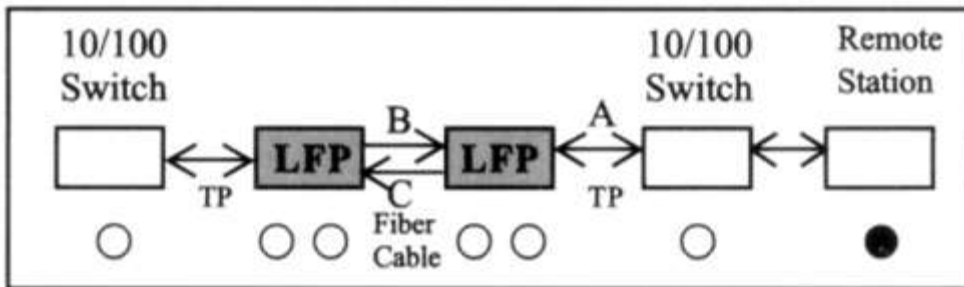

9. Link Fault Pass Through

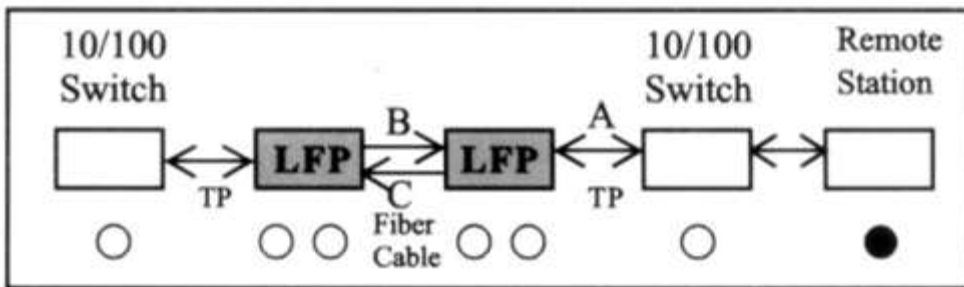The DIP switch media converter supports Link Fault Pass Through (LFP)

function in TX/FX converter application. Link status on one port is propagated to the other port to notice the remote nodes. If TP port is unplugged, this converter stops transmission on fiber port. This causes the remote fiber node link to fail. LED slows the link failure on both TP and fiber ports. If fiber link fails, this converter restarts auto-negotiation on TP port but always stays in the link failure state. This causes the remote TP node link to fail. LED also shows the link failure on both TP and fiber ports.

Normal status via a pair of LFP media converter

The status when TP cable A is broken

The status when Fiber cable B or C is broken

Note: ● indicates Link/Act LED on
      ○ Indicates Link/Act LED off

The LFP (Link Fault Pass Through) function works only when both side converters with this function. Furthermore, both LFP converters should be supplied from the same manufacturer/vender.

10. Warning

1. This product is suitable for indoor application.
2. Place the dust cover on the fiber interface when not in use.

3. It is dangerous to stare at the fiber transmitter with the naked eye.
4. Optical fiber transceivers must be used in pair.
5. Single optical fiber transceiver must be used in pair(A,B)
   A: TX1310/RX1550nm   B: TX1550/RX1310nm.

11.   Trouble shooting

1. Device is not connecting. Please check that the corresponding network device is using the same transfer rate as the media converter (10Mbps, 100Mbps or 1000Mbps).
2. If power loss is excessive in the fiber, please check and clean the fiber patch cord connectors.

12.   Responsibility Note

(1) The user should cover the damage during transport to equipment resend for maintained at the user's own expense
(2) Please contact your authorized reseller immediately, if there is any damage to the equipment during transport
(3) If you want to prepare power supply by yourself, please make sure the power supply you select meet the requirement given by this manual. We will not cover the damage caused by your using unqualified power supply.
(4) Do please follow this manual when using the power supply.
(5) All rights reserved. No part of this manual can be reproduced, or transmitted in any form or by any means, without authorization form us.
(6) We will not cover the damage to the equipment or any person caused by your changing the equipment or this manual in any form without authorization from us.
(7) We will change the equipment for new ones if it can not work normally because of the quality itself within the warranty time. We will keep the old ones.
(8) The packages of the equipment meet the requests of environmental protection, should be recycled.
Attention: If there are any printing mistakes in this manual, the right to explain is reserved. And the pictures of equipment appearance in this manual are just for user's information, the final equipment appearance depends on reality products, if there are any improvements on technology, we will be sorry for won't inform you again.

Guarantee Card

In order to be valid this guarantee card must be fully completed and signed by authorized distributor/agent/reseller.

Store Name: _____

Date of Purchase: _____

Style Information: _____

Signature: