10G SFP+ Media Converter User's Manual

1．Overview

IEEE802.3z/Az 10G converter supports two types media for network connection such as 10G Base-T and 10G SFP+. The media converter is designed with a switch controller and buffer memory that connects two types segments to operate smoothly. With internal power unit, it provides good stability and reliability.

2．Checklist

Before you installing the Converter, verify that the package contains the following：

1. The TP-Fiber Media converter.
2. AC Power Cord.
3. This User's Manual.

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

3．LED Description

There are Four LED At Front View of 10G SFP+ Converter

1G	Lit when FX/TP speed is 1000Mbps
10G	Lit when FX/TP speed is 10G bps
Link	Lit when FX/TP connection is good. Blinks when FX/TP data is transmitting.
PWR	Lit when +5V power is coming up.

4．Fiber Technical Specifications

	10G Base-SR	10G Base-LR
Connector type	LC	LC
Fiber type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Max Distance	<300M	10Km
Min TX PWR	-6.0dBm	-8.2dBm
Max TX PWR	-1.0dBm	-0.5dBm
Sensitivity	＜-11dBm	＜-14.4dBm
Link Budget	5.0dBm	6.2dBm

	10G Base-ER	10G Base-ZR
Connector type	LC	LC
Fiber type	Single-mode	Single-mode
Wavelength	1550nm	1550nm
Max Distance	40Km	80Km
Min TX PWR	-4.7dBm	0dBm
Max TX PWR	4dBm	5dBm
Sensitivity	＜-15.8dBm	＜-23dBm
Link Budget	11.1dBm	23.0dBm

5．Installing the Converter

1. Attach a SFP+ to SFP Cage on the converter
2. Attach fiber cable from the Converter to the fiber network.. The fiber connections must be matched: transmit socket to receive socket.
3. Attach a UTP cable from the TP network device to the RJ45 port on the Converter.
4. Connect the power cord to the Converter and check that the Power LED lights up. The TP Act and FX Act LEDs will light when all the cable connections satisfactory.

6．Technical Specifications

The Converter conforms to the following standards:

- **Standards:** IEEE 802.3z/Az 10G Base-T 10G Base-SR/LR
- **UTP Cable:** Cat.6 cable and up to 100m.
- **Fiber Cable:**
  10G SR: 50/125，62.5/125μm multi-mode
  10G-LR: 9/125μm single-mode.

- **Data Transfer Rate:**
  20G bps for full-duplex at 10G bps speed.
- **LED Indicators:**
  10G, 1G, Link, PWR
- **TP Flow Control:** NWAY auto-negotiation
  Fiber Flow Control: NWAY at full-duplex mode
- **Power Requirement:** 220V(100-240V)AC，50Hz
- **Ambient Temperature:** 0 ～ 50℃
- **Humidity:** 5% ～ 90%
- dimensions：

External Power:30×100×140mm (H×W×D)

10G SFP+ Media Converter

User's Manual