

User and Technical Manual



10/100/1000TX to 1000SX/LX
Media Converter with SFP Slot

Gigabit Ethernet SFP Converter User's Manual

1. Overview

IEEE802.3z/AB 1000Mbps Gigabit Ethernet supports two types media for network connection such as 10/100/1000Base-T and 1000Base-SX/LX. 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 six LED At Front View of Gigabit SFP Converter

TP 100	Lit when TP speed is 100Mbps
TP 1000	Lit when TP speed is 1000Mbps
TP Act	Lit when TP connection is good. Blinks when TP data is transmitting.
TP FDX	Lit when TP full-duplex mode is active. Off when TP half-duplex mode is active. Blinks when collision signal is present.
FX Act	Lit when TP connection is good. Blinks when TP data is transmitting.
PWR	Lit when +5V power is coming up.

4. Dip Switch Setting Communication Setting

SW1	ON	Enable Link Fault Pass-Through
	OFF	Disable Link Fault Pass-Through
SW2	ON	Converter mode (9k)
	OFF	Switch mode

5. Fiber Technical Specifications

	1000Base-SX	1000Base-LX-10
Connector type	LC	LC
Fiber type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Max Distance	62.5μm: 224m 50μm: 550m	10Km
Min TX PWR	-11.0dBm	-12.0dBm
Max TX PWR	-6.0dBm	-5.0dBm
Sensitivity	< -18dBm	< -21dBm
Link Budget	7.0dBm	9.0dBm

6. 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.

Interface Slot 1	Industry Standard SFP Slot
Interface Slot 2	10/100/1000BaseT Ethernet RJ45
Color	Black
Dimensions	40 x 110 x 140mm
Power Supply	110V/220V auto switching . Output 5V DC 2A (Included)
Wavelength	*Based on SFP used
Max Distance	*Based on SFP used

Item	Interface 1 (Transceiver Slot)	UPC
18240	SFP transceiver not included	848243031586
18242	SFP Multi-Mode transceiver included	848243031593
18243	SFP Single-Mode transceiver included	848243031609

7. Technical Specifications

The Converter conforms to the following standards:

- **Standards:** IEEE 802.3z/AB 10/100/1000Base-T
1000Base-SX/LX
- **UTP Cable:** Cat.5e or Cat.6 cable and up to 100m.
- **Fiber Cable:**
1000SX: 50/125, 62.5/125μm multi-mode
1000LX: 9/125μm single-mode.
- **Data Transfer Rate:**
2000Mbps for full-duplex at 1000Mbps speed.
- **LED Indicators:**
TP Act, Fdx, 100, 1000 , Power, FX Act
- **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: 26×70×93mm (H×W×D)

Diablo Cable

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