

**LP-ICF31XX Dual Fiber Gigabit Media Converter 10/100/1000Mbps
User's Manual**

LPICF31XX_UM_ENB01W

**LP-ICF31XX
Dual Fiber Gigabit Media Converter
10/100/1000Mbps****User's Manual**

A Overview

IEEE802.3z/AB 1000Mbps Gigabit Ethernet supports two types media for network connection such as 10/100/1000Base-T and 100/1000Base-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.

B Checklist

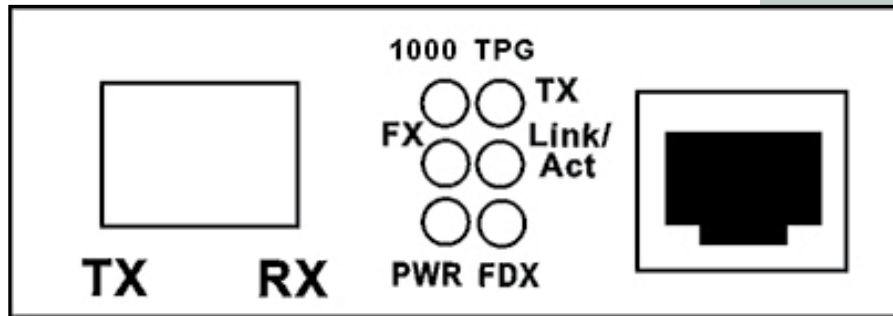
Before you installing the Media Converter, verify that the package contains the following:

- 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.

C LED Description

There are six LED At Front View of Gigabit SFP Media Converter



1000	Lit when FX speed is 1000Mbps
TPG	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 FX connection is good. Blinks when FX data is transmitting.
PWR	Lit when +5V power is coming up.

D Communication Setting

SW1	ON	Enable Link Fault Pass-Through
	OFF	Disable Link Fault Pass-Through
SW2	ON	Switch mode
	OFF	Modo Switch
SW3	ON	Flow control enable
	OFF	Flow control disable
SW4	ON	FX Speed 100Mbps
	OFF	FX Speed 1000Mbps

E Fiber Technical Specifications

	1000Base-SX	1000Base-LX-10
Connector type	LC	LC
Fiber type	Multimode	Singlemode
Wavelength	850nm	1310nm
Max Distance	62.5 μ m: 224m 50 μ m: 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

	1000Base-LX-30	1000Base-HX
Connector type	LC	LC
Fiber type	Monomodo	Monomodo
Wavelength	1310nm	1550nm
Max Distance	30Km	70Km
Min. TX PWR	-8.0dBm	-5.0dBm
Max. TX PWR	0dBm	0dBm
Sensitivity	< -25dBm	< -25dBm
Link Budget	17.0dBm	20.0dBm

F 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.

G Technical Specifications

The Converter conforms to the following standards:

- **Standards:** IEEE 802.3z/AB 10/100/1000Base-T100/1000Base-SX/LX
- **UTP Cable:** CAT 5e or CAT 6 cable and up to 100m.
- **Fiber Cable:** 1000SX: 50/125, 62.5/125 μ m multimode 1000LX: 9/125 μ m singlemode.
- **Data Transfer Rate:** 2000Mbps for full-duplex at 1000Mbps speed.
- **LED Indicators:** TP Act, FDX, TPG, 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 $^{\circ}$ C
- **Humidity:** 5% ~ 90%
- **Dimensions:** External Power:26 \times 70 \times 94mm (H \times W \times D)