



SFP to Ethernet Converter

The Transceiver converts 100/1000BASE-SX/LX/LH/EX/ZX -fiber to 100/1000Base-T copper media or vice versa. It is designed for use with 850nm multi-mode/1310nm single-mode/WDM - fiber cable utilizing the LC-Type connector, transmitting data up to 0.55 kilometers or 120 kilometers. What's more, the SFP to Ethernet Converter can work as a stand alone device (no chassis required) or with B&TON's 19" system chassis.

Features

- Works at 100/1000Mbps in Full-Duplex mode for both TX port and FX port
- Supports Auto MDI/MDIX for TX port
- Force /Auto transfer mode for FX port
- FX port support hot-swappable
- Extends -fiber distance up to 0.55/2km for multi-mode -fiber and 10/20/40/80/100/120km for single-mode -fiber
- Easy-to-view LED indicators provide status to monitor network activity easily
- SC connector, UPC, autosensing

Specification

Optical Interface	Connector	SFP LC/SC
	Data Rate	155Mbps, 1.25Gbps
	Duplex Mode	Full duplex
	Fiber	MM 50/125um,62.5/125um SM 9/125um
	Distance	155Mbps: MM 550M/2km,SM 20/40/60/80/100/120km 1.25Gbps: MM 550m/2km,SM 20/40/60/80km
	Wavelength	MM 850nm, 1310nm SM 1310nm,1550nm WDM Tx1310/Rx1550nm(A side),Tx1550/Rx1310nm(B side) WDM Tx1490/Rx1550nm(A side),Tx1550/Rx1490nm(B side)
UTP Interface	Connector	RJ45
	Data Rate	10/100Mbps, 10/100/1000Mbps
	Duplex Mode	Half/full duplex
	Cable	Cat5,Cat6
Power Input	Adapter Type	DC5V, optional(12V, 48V)
	Power Built-in Type	AC100~240V

Power Consumption	<3W	
Weight	Adapter Type	0.39kg
	Power Built-in Type	0.67kg
Dimensions	Adapter Type	94*70.5*26.5cm
	Power Built-in Type	140.5*111*30cm
Temperature	0~50℃ Operating; -40~70℃ Storage	
Humidity	5~95%(no condensing)	
MTBF	≥10.0000h	
Certification	CE,FCC,RoHS	

Optional Function - DIP SWITCH

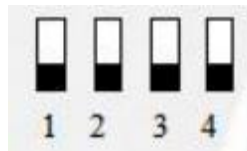


Figure 1 . Dip Switch

Dip Switch, Top position is ON, Low position is OFF

Table 1 .Dip Switch Function

No.	Switch Function	Description															
1	LFP	Link fault pass through(LFP) Default Disable status(OFF)															
2	Direct Wire	Switch 2 and switch3															
3	Fast FWD	<table border="0"> <tr> <td>Direct Wire</td> <td>Fast FWD</td> <td>Function Mode</td> </tr> <tr> <td>OFF</td> <td>OFF</td> <td>Store and forward switch</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>Modified cut-through switch</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>Converter Mode</td> </tr> <tr> <td>ON</td> <td>ON</td> <td>auto-change-forward</td> </tr> </table>	Direct Wire	Fast FWD	Function Mode	OFF	OFF	Store and forward switch	OFF	ON	Modified cut-through switch	ON	OFF	Converter Mode	ON	ON	auto-change-forward
Direct Wire	Fast FWD	Function Mode															
OFF	OFF	Store and forward switch															
OFF	ON	Modified cut-through switch															
ON	OFF	Converter Mode															
ON	ON	auto-change-forward															
4	TP Force	TP_Force Speed_Mode Duplex_Mode															

Table 2 .LED Status Instruction

Name	FUNCTION	STATUS	OPERATION
PWR	POWER	ON	Power on
		OFF	Power off
FX	Optical Signal	ON	Connected
		OFF	Not link
TX	Ethernet	ON	Connected
FDX	Ethernet	ON	Full duplex
		OFF	Half duplex
100	Ethernet	ON	100Mbps signal
		OFF	10Mbps signal
Link/Act	Fiber/Ethernet	ON	Connected
		FLASH	Data flow
		OFF	Not link
100M	Ethernet	ON	100Mbps signal
1000M	Ethernet	ON	1000Mbps signal

Application

- Extend your Ethernet connection up to 0~120km away using fiber optics
- Creates an economical Ethernet-fiber/copper-fiber link for connecting remote sub-networks to larger fiber optic networks/backbones
- Converts Ethernet to fiber, fiber to copper/Ethernet, ensuring optimum network scalability for connecting two or more Ethernet network nodes (e.g. connecting two buildings on the same campus)
- Designed to provide high-speed bandwidth for demanding large scale work groups that require expansion of Gigabit Ethernet Network.

Order Information

Part Number	Description
EM-100-SSXX	10/100Mbps, 1SFP slot and 1RJ45 port, supports 155Mbps Single/Dual Fiber, 0~120km SFP
EM-1100-SSXX	10/100/1000Mbps, 1SFP slot and 1RJ45 port, supports 1.25Gbps Single/Dual Fiber, 0~120km SFP