

Rev	Date	Modified by	Description
A0	2023		

Product Specifications

SFP to Ethernet Converter



Features

- Works at 100/1000Mbps in Full-Duplex mode for both TX port and FX port
- Supports Auto MDI/MDIX for TX port
- Provides switch con-figuration of 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

Applications

- 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.

Description

This SFP to Ethernet Switch makes transmission between UTP Copper cables and Slot SFP (Small Form-Factor Plug-gable) transceivers. It is designed to meet the massive needs for Ethernet network deployment and able to extend a copper based network via Slot cable to a maximum distance up to 120km. It can be installed into a Standard Converter Chassis. The installation & operation procedures are simple & straight forward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.

Specifications

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 20/40/60/80/100/120km
	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	0.3kg
	Power Built-in Type	0.6kg
Dimensions	Adapter Type	94*70.5*26.5cm
	Power Built-in Type	140.5*111*30cm
Temperature		0~50°C Operating; -40~70°C Storage
Humidity		5~95%(no condensing)
MTBF		≥10.0000h
Certification		CE,FCC,RoHS

Optional - DIP SWITCH

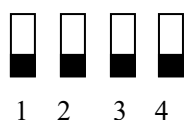


Figure 1 . Dip Switch

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 Direct_Wire Fast_FWD Function Mode
3	Fast_FWD	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

Order Information

Part Number	Description
EM-100-1S1R	10/100Mbps, 1SFP slot and 1RJ45 port, supports 155Mbps Single/Dual Fiber, 0~120km SFP
EM-1100-1S1R	10/100/1000Mbps, 1SFP slot and 1RJ45 port, supports 1.25Gbps Single/Dual Fiber, 0~120km SFP

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