

Rev	Date	Modified by	Description
A0	2023		

Product Specifications

SFP to Ethernet Switch

PN: EM-100-1S1R

Features

- In conformity to IEEE802.3 10base-T, IEEE802.3u 100 base-TX/FX, IEEE802.3ab 1000 base-T, IEEE802.3z,1000base-SX/LX, IEEE802.1a, IEEE802.1PQ0S, IEEE802.1d Spanning Tree.
- Hot Pluggable & Wall-Mountable.
- Stable performance more than 50thousand hours with fault-free.
- Unique IC solution applied.
- Supports 10/100Mbps and 10/100/1000M full/half duplex, easy upgrades.
- Optional function: VLAN 802.1Q
- Auto MDI/MDI-X.
- Auto Negotiation.
- Support flow control.
- Stable performance more than 50 thousands hours with fault-free.
- Interface: RJ-45 connector / SFP Slot
- In conformity with safety code of FCC, CE and RoHS.

Applications

- Extend your Ethernet connection up to 0~120km away using Slot optics
- Creates an economical Ethernet-Slot/copper-Slot link for connecting remote sub-networks to larger Slot optic networks/backbones
- Converts Ethernet to Slot, Slot 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 (SFP)	Connector	SFP LC/SC
	Data Rate	100Mbps, 1000Mbps
	Duplex Mode	Full duplex
	Slot	MM 50/125um,62.5/125um SM 9/125um
	Distance	100Mbps: MM 550M/2km,SM 20/40/60/80/100/120km 1000Mbps: MM 550m/2km,SM 20/40/60/80/100/120/140km
	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 Port
	Data Rate	10/100Mbps, 10/100/1000Mbps
	Duplex Mode	Half/full duplex
	Cable	Cat5,Cat6
Power Input	Adapter Type	DC5V DV12V
	Power Built-in Type	AC100~240V
Power Consumption		<3W
Temperature		0~50°C Operating; -40~70°C Storage
Humidity		5~95%(no condensing)
MTBF		≥10.0000h
Certification		CE,FCC,RoHS

Order Information

PN	Description
EM-100-1S1R	10/100Mbps 1SFP Slot and 1RJ45 Port
EM-100-1S8R	10/100Mbps 1SFP Slot and 8RJ45 Port
EM-100-2S8R	10/100Mbps 2SFP Slot and 8RJ45 Port
EM-1100-1S1R	10/100/1000Mbps 1SFP Slot and 1RJ45 Port
EM-1100-1S2R	10/100/1000Mbps 1SFP Slot and 2RJ45 Port
EM-1100-1S4R	10/100/1000Mbps 1SFP Slot and 4RJ45 Port
EM-1100-2S2R	10/100/1000Mbps 2SFP Slot and 2RJ45 Port
EM-1100-1S4R	10/100/1000Mbps 2SFP Slot and 4RJ45 Port
EM-1100-1S8R	10/100/1000Mbps 1SFP Slot and 8RJ45 Port
EM-1100-2S8R	10/100/1000Mbps 2SFP Slot and 8RJ45 Port
EM-1100-8S1R	10/100/1000Mbps 8SFP Slot and 1RJ45 Port

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