

EM-11100-SSXX

10000Mbps Gigabit Ethernet Switch

Overview

IEEE802.3z/AB 10000Mbps 2 port Gigabit Ethernet Switches supports two types media for network connection and switching such as 100/1000/10000Base-T and 10000Base-SX/LX. The switch is designed with a switch controller and buffer memory that connects two types segments to operate smoothly. The Switch with 1 SFP+ port 10GBase-T/SX/LX and 1 RJ45 port 100/1000/10000 Base-T(selectable). The RJ45 port support Half or Full Duplex modes. All SFP ports support only 10000Mbps and Full-Duplex modes. With external power unit, it provides good stability and reliability.

Checklist

Before you installing the Switch, verify that the package contains the following:

1. The 2 port TP-SFP Gigabit Switch.
2. AC-DC Power Adapter.
3. This User's Manual.

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

LED Description

There are 6 LED At Front View of 2 port Gigabit Ethernet Switch.:



10G/1000M/100M	Lit when TP speed is 10G/1000M/100Mbps
LINK	Lit when TP connection is good. Blinks when TP data is transmitting.
SFP+	Lit when SFPn connection is good or when SFPn data is transmitting.
PWR	Lit when 5-12V power is coming up.

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SFP Module Fiber Optic Technical Specifications

	10G Base-SX	1000Base-LX-20
Connector type	LC	LC
Fiber type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Max Distance	62.5μm: 224m 50μm: 550m	20Km
Min TX PWR	-12.0dBm	-11.0dBm
Max TX PWR	-6.0dBm	-5.0dBm
Sensitivity	< -19dBm	< -22dBm
Link Budget	7.0dBm	11.0dBm

	10GBase-LX-40	1000Base-LX-80
Connector type	LC	LC
Fiber type	Single-mode	Single-mode
Wavelength	1310/1550nm	1550nm
Max Distance	40Km	80Km
Min TX PWR	-5.0/-10dBm	-3.0dBm
Max TX PWR	0dBm	0dBm
Sensitivity	< -25dBm	< -25dBm
Link Budget	20.0/15dBm	22.0dBm

Single Fiber Technical specification

	10GBase-LX-20	1000Base-LX-40
Connector type	LC/SC	LC/SC
Fiber type	Single-mode	Single-mode
Wavelength	1310/1550nm	1310/1550nm
Max Distance	20Km	40Km
Min TX PWR	-10.0dBm	-5.0/-10dBm
Max TX PWR	-4.0dBm	0dBm
Sensitivity	< -22dBm	< -25dBm
Link Budget	12.0dBm	20/15dBm

	10GBase-LX-60	1000Base-LX-80
Connector type	LC/SC	LC/SC
Fiber type	Single-mode	Single-mode
Wavelength	1490/1550nm	1490/1550nm
Max Distance	60Km	80Km
Min TX PWR	-6.0dBm	-1dBm
Max TX PWR	0dBm	3dBm
Sensitivity	-25dBm	< -26dBm
Link Budget	19dBm	25.0dBm

Installing the Gigabit Fiber Switch

1. Attach the SFP+ Module to SFP+ Cage on the Switch.
2. Attach fiber cable from the SFP on the Switch 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 Switch.
4. Connect the power adapter to the Switch and check that the Power LED lights up. The TP SPD, Act and SFP LEDs will light when all the cable connections satisfactory.



Technical Specifications

The Gigabit Ethernet Switch conforms to the following standards:

- **Standards:** IEEE 802.3z/AB 10/1001000Base-T
1000Base-SX/LX/ZX
- **Fiber Cable:**
10G SX: 50/125, 62.5/125 μ m multi-mode
1000 LX/ZX: 8.7/125, 9/125 μ m single-mode.
- **UTP Cable:** Cat.5e or Cat.6 cable up to 100m.
(only 9 port switch)
- **Data Transfer Rate:**
RJ45 port: 100M, 1000Mbps,10G
SFP: 1000Mbps,10G
- **LED Indicators :**
SFP+, LAN, Link/Act, PWR.
- **Duplex Modes: RJ45 port:** NWay Full/Half
Duplex auto- negotiation
SFP: full-duplex mode
- **Power Requirement:** 220V(100-260V)AC, 50Hz
DC12/1A
- **Ambient Temperature:** 0 ~ 50 $^{\circ}$ C
- **Humidity:** 5% ~ 90%
- **dimensions:** 134mm*82mm*27mm (L*W*H)