

6. LED Description

Power	Color	Function
FX LINK/ACT	Green	Lit when fiber connection is good Blinks when fiber data is present
FDX	Green	Lit when full-duplex mode is active Off when half-duplex is active
TP1 LINK/ACT	Green/Yellow	Lit when TP1 connection is good Blinks when TP1 data is present
TP100	Green	Lit when TP speed is 100Mbps Off when TP speed is 10Mbps
TP2 LINK/ACT	Green/Yellow	Lit when TP2 connection is good Blinks when TP2 data is present
TP100	Green	Lit when TP speed is 100Mbps Off when TP speed is 10Mbps

7. Connecting to TP, Fiber Device

Port	Mode	Partner
Converter TP Port 10/100TX	Green	Default: 10/100Mbps N-Way a. Auto-negotiation for N-Way TP partner b. Half-duplex for Non-N-Way TP partner 10Base-T or 100Base-TX, Hub or Switch etc
Converter Fiber Port 100FX	Green	100Mbps with duplex mode selectable: a. Full-duplex for 100FDX fiber link partner b. Half-duplex for 100HDX fiber link partner

8. Cable Connection Parameter

100Base-X network allows 512-bit time delay between any two node stations in a collision domain. The overall bit-time of TP/fiber wires and devices must be within 512 bit in a segment.
You may use a switch to break up collision domain and extend the cabling distance
—TP Cable Limitations: Cat. 5 100m
—Multi-mode Converter Fiber Cable Limitations:

Mode	Distance	Wavelength
Multi-mode Half-duplex	412m	850nm/1310nm/1550nm
Multi-mode Full-duplex	2km	1310nm/1550nm

Single mode Converter Fiber Cable Limitations:

SC Single-Mode Converter Optional Models:

Model	Distance	Wavelength
SC-S20 Full-duplex	25km	1310nm
SC-S40 Full-duplex	40km	1310nm
SC-S60 Full-duplex	60km	1310nm
SC-S80 Full-duplex	80km	1310nm
SC-S100 Full-duplex	100km	1310nm
SC-S120 Full-duplex	120km	1310nm

9. Feature

- Support one 100Base-FX and 4 port 10/100Base-TX transmission for each other
- Support QoS functions and 1552 byte maximum packet length
- Support port-based VLAN4 TP ports are independent and can transmit with FX port for each TP port only—choice with one key/default (Dis. Vlan)
- Point to Point Transmission is available on request only
- Standards : IEEE802.3 IEEE802.3u 10/100Base-TX and 100Base-FX
- UTP Cable: Cat. 5 cable up to 100m
- Fiber Cable: 50/125, 62.5/125um multi-mode 8.3/125, 8.7/125, 9/125 or 10/125um single-mode
- Wavelength : 850nm/1310nm/1550nm
- Port : 4 RJ45 ports: Connected to STP/UTP category-5 twisted pairs 1 fiber port: Multi-mode SC or ST (fiber size: 50.625/125um) Single mode SC/FC fiber port (fiber size: 9/125um) Single-fiber single-mode SC/FC fiber port (fiber size: 9/125 μm)
- Conversion mode : Medium conversion, storing and forwarding/straight-through
- MAC address table : 1 K
- LED Indicators : FX LINK/ACT, FX100, FDX, TP LINK/ACT, TP100, POWER.

- Flow Control: IEEE802.3x compliant for full-duplex
- Power Requirement: 1.5A@5VDC
- Ambient Temperature: -10 to 55°C
- Humidity: 5% to 95%
- Dimensions: 26(H) x 70(W) x 98(D) mm

Note: Connecting to Router or Switch, Please refer to the device's Technical Manual

10. Optical port parameters :

100Mbps optical port

Mode	Distance (Km)	Wavelength (nm)	Send Mode	Output optical power (dbm)	Receiving sensitivity (dbm)	connector
DF-MM	2	1310	FB	-20~-14	<-31	SC/ST/FC
DF-SM	25	1310	FB	-15~-8	<-34	SC/ST/FC
DF-SM	40	1310	FB	-10~-5	<-36	SC/ST/FC
DF-SM	60	1310	FB	-5~-0	<-36	SC/ST/FC
DF-SM	80	1550	DFP	-6~-1	<-38	SC/ST/FC
DF-SM	100	1550	DFP	-5~-0	<-38	SC/ST/FC
DF-SM	120	1550	DFP	-4~-1	<-38	SC/ST/FC
DF-SM	25	1310,1550	FB	-14~-8	<-33	SC/ST/FC
SF-SM	40	1310,1550	FB	-9~-5	<-33	SC/ST/FC
SF-SM	60	Rx1550 Tx1310	DFP	-6~-0	<-36	SC/ST/FC
SF-SM	80	Tx1550 Rx1310	DFP	-8~-2	<-36	SC/ST/FC
SF-SM	80	Tx1310 Rx1550	DFP	-3~-3	<-36	SC/ST/FC
SF-SM	80	Tx1550 Rx1310	DFP	-5~-0	<-36	SC/ST/FC

* DF-MM: Dual fiber, Multi mode.

* DF-SM: Dual fiber, Single mode.

* SF-SM: Single fiber, Single mode.