10G Converter User Manual

1. Overview

The 10G converter is a fiber-to-fiber 10Gbps device connection, which is used for fiber optic media converters, or fiber optic repeaters with long-distance transmission. It is used for the network backbones (SAN, LAN, MAN), supports SDH/SONET,STM-64/OC-192, 10G Fibre Channel, 10G Ethernet, etc. It applies to telecommunications rooms, research and development laboratories, data centers,etc., and 1310nm / 1550nm / CWDM / DWDM optical wavelength conversion..

2. Product features

- Support for jumbo frames
- Support hot swap
- Transparent transmission and low latency
- Supports ITU-defined DWDM / CWDM wavelengths and can also display its DDM capabilities.
- The rate supports 8..5Gbps~11.7Gbps
- Support 3R function: support signal amplification and regeneration, waveform shaping, clock retiming;
- Easy installation

3. Protocol

- 8.5G Fiber Channel
- SONET OC-192, SDH STM-64 (9.95Gbps)
- 10G WAN (10Gbps)
- 10G LAN (10.31Gbps)
- OTN OTU-2 (G.709) (10.70Gbps)
- 10G LAN with 255/237 FEC coding (11.09Gbps)
- 10G Fiber Channel (11.32Gbps)
- 10G POS

4. Panel

1. Rear panel diagram

Fig 4.1 Rear panel diagram

2. Front panel

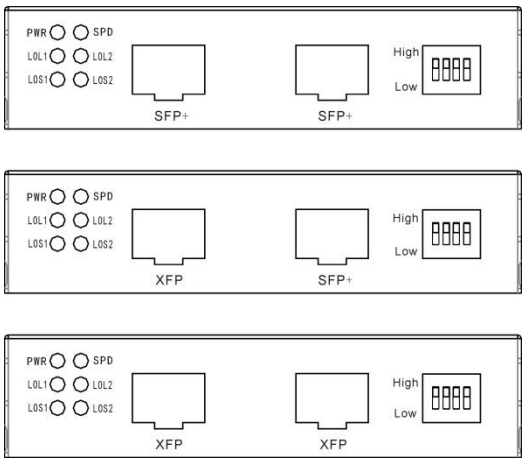

Fig 4.3 Front panel diagram

5. Indicator status description

Table 5.1 Indicator status description

LED	Function	Status	Description
PWR	Power Indicator	ON	Power is ON.
		OFF	Power is OFF.

SPD	Speed Indicator	Flashing	10G
		Slow flash	1.25~8.5G
LOS1	Loss of signal	ON	The left module optical signal is received normally.
		OFF	The left module optical signal reception is abnormal.
LOL1	10G Loss of lock	ON	The link is connected properly and the CDR is locked.
		OFF	The link is connected properly and the CDR is not locked.
LOS2	Loss of signal	ON	The right module optical signal is received normally.
		OFF	The right module optical signal reception is abnormal.
LOL2	10G Loss of lock	ON	The link is connected properly and the CDR is locked.
		OFF	The link is connected properly and the CDR is not locked.

6. DIP switch instructions

DIP-Bit Number	Switch Status	Function Descriptions
1	ON	10.3G or 14.025G
	OFF	1.25~8.5G
2	ON	No Function
	OFF	No Function
3	ON	No Function
	OFF	No Function
4	ON	No Function
	OFF	No Function

7. Installation and connection

7.1. Notes

- Please pay attention to the stability when placing the device. Dropping will have serious consequences.
- It should work properly under the correct power supply. Please confirm that the power supply is consistent with the power supply requirements indicated by the equipment before use.
- To reduce the risk of electric shock, do not open the case while the device is working, even if it is not charged, do not open it yourself.
- The network cable can be inserted or removed at any time while the device is working, without interrupting the operation of the device.
- Before cleaning the equipment, pull out the power plug of the equipment, wipe it with a damp fabric, and do not use liquid to clean it.
- Do not place the device near water or in a damp place and prevent water and moisture from entering the device case.
- When placing equipment, please avoid areas with excessive dust and electromagnetic interference.

7.2. Installation

The equipment is installed on the desktop.

This product does not contain any fixing accessories other than fixed rail screws;

When installing or moving, please unplug the power cord first.

You can place this product directly on a clean, stable, well-grounded desktop. The installation process is as follows:

(1) Carefully turn the device upside down. Clean the inside of the screen printing area on the bottom plate of the equipment cabinet with a soft cloth to ensure no oil or dust adsorption;

(2) Carefully place the device upright and place it on the table.

7.3. Connection cable

(1) Please turn off the power supply of each signal source and device to be displayed before installation. The live installation may cause damage to the transmission equipment;

(2) The power supply of the connected device;

(3) Check whether the installation is correct, whether the equipment is damaged, ensure that all connections are reliable, and power on the system;

(4) Confirm whether each network device has power supply and whether the work is normal.

8. Technical Parameters

Transmission rate	8.5Gb/s-11.7Gb/s

Interface Type	Type A : XFP to XFP Type B : XFP to SFP+ Type C : SFP+ to XFP Type D: SFP+ to SFP+
Transmission distance	XFP：Max 80Km SFP +：Max 80km
Maximum packet forwarding rate	14,880,950/S
power supply	DC 12V
power	≤4W
Operating temperature	-20℃~60℃
Relative humidity	5% -95% (non-condensing)
shell	Iron shell
Size (L*W*H)	110(L)*95(W)*26(H)mm

9. Packing list

After unpacking, please check the packing list according to the model you purchased. If it is lost or damaged, please contact your local dealer immediately.

packing list

Converter

Power adapter

User manual