CYGNUS
electronics

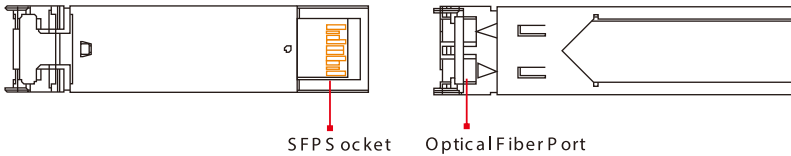## SFP Optical Module
1.25G Double Optical Fiber 20km

This is a standard SFP optical module. It uses two single mode optical fibers and the speed rate can up to 1.25Gbps, transmission distance up to 20km. This product need to use in pair and match up with fiber converter and optical Ethernet switch with SFP port, it can be used in Ethernet, telecom and optical fiber communication and other industries...

■Feature

- Use SFP packaging form, LC connector, support SFF8472 standard;
- Support hot plug;
- Use1310 FP laser and PIN-TIA;
- The data transmission distance of single mode optical fiber can up to 20km;
- Data input and output ports are comply with the low voltage emitter coupled logic (LVPECL) standard;
- Low electromagnetic interference to the environment, strong ESD protection;
- Meet IEC-60825 laser safety standard;
- Meet RoHS standard.

■Board diagram

SFP Socket   Optical Fiber Port

■Installation step

Please check the following items before installation. If any missing, please contact the dealer.

- SFP Optical Module, 1.25G Double Optical Fibers 20km   1pc
- User Manual   1pc

Please follow the following step

1) Please turn off the signal source and the device's power, installation with power on may damage the device;

2) Plug 1.25G double optical fibers 20km SFP optical module into SFP socket;

3) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;

4) Make sure the optical communication is normal.

■ Specification

Item		Description
Power	Power Supply	The Host Power Supply
	Voltage Range	DC 3.15V～3.45V
	Consumption	1W
Optical Characteristics	Optical Wave Length	1310nm
	Emission Light Power	- 8～- 3dBm
	Receiver Sensitivity	- 24dBm
Transmission Characteristics	Optical Fiber Type	Single mode 9/125um
	Optical Fiber Port	LC
	Transmission Distance	Single mode 20km
Protection	ESD	1a contact discharge 3 level 1b air discharge 3 level Per：IEC61000- 4- 2
Environmental	Working Temperature	0 ～ 70
	Storage Temperature	- 40 ～ 70
	Humidity (Non-	0~95%
Mechanical	Dimension (L×W×H　)	55.4mm× 13.7mm× 6.25mm
	Material	Stainless steel
	Color	White
	Weight	17g

Product are subject to change without prior notice

■ Trouble Shooting

Please find the following solution when the device doesn't work

● Please confirm if the installation is correct;

● Please confirm the module plugged is match with the requirement;

● If the problem still exist, please contact the factory.