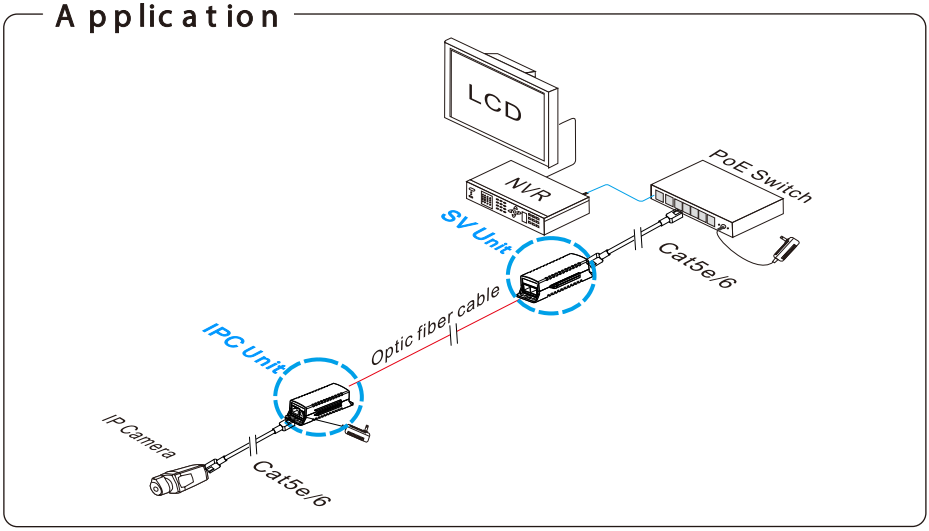
CYGNUS electronics

DATASHEET
CY-MC-SC

The Fiber optical transceiver is a fast-speed Ethernet optical converter which consists of SV and IPC units. And it transforms signals between the Media of network cable and optic fiber cable, and the signal transmission distance up to 20km. It is particularly suitable for multimedia transmission without delay which can support IEEE802.3u 100Base-TX/FX and IEEE802.3 af/at standard .The structure designing of built-in splicing slot on both sides and magnetic attraction as well as hanger on the bottom enables multiple installation methods of wall-mounting,splicing and adsorption .So it is a cost-effective choice for the HD network surveillance system, transmission and application of the IOT, as well as upgrading and renovating projects.

Application



Features

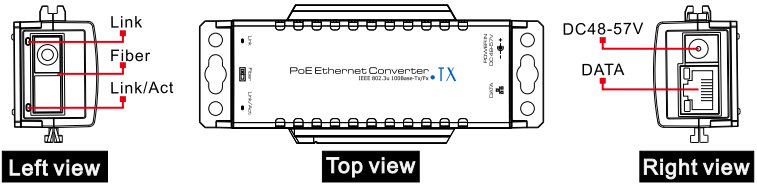
- Support 100Mbps half-duplex/full-duplex mode and auto MDI/MDIX;
- SC connector with single-mode&single-fiber,optic fiber transmission distance up to 20KM;
- Support IEEE 802.3u 100Base-TX,IEEE802.3 af/at standard;
- No storage and forward technology, without delay;
- Plug and play, no other software and transfer agreement needed;
- Built-in splicing slot, with magnet and hanger, unique and integrated design, wall-mounted, splicing and desktop installations available, which suits in all kinds of engineering installation.

Attention

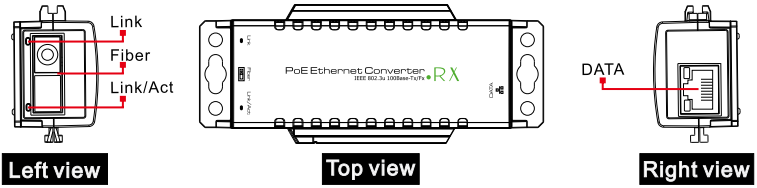
1) The optic fiber joint must coincide with the SC connector of fibre units;
2) Please use the specified power adapter for power supply.

■Paneldiagram

IPC Unit Device



SV Unit Device



Instructons:

1) The SV or IPC units' appearance of fiber optic transceiver is different , No DC socket for SV unit's side Panel.
2) The first photo's RJ 45 is for IPC unit network connector ,and the DC48~57V socket is to supply power for IPC unit and PoE IP camera.

■Installation steps

Please check the following items before installation, if anything missing, please contact the dealer .

- IPC Unit Device 1 PC
- SV Unit Device 1PC
- Power Adaptor 1PC
- User Manual 1PC

Please follow installation steps as below:

1) Turn off the power of all the related devices before the installation, otherwise the device would be damaged;
2) Check if the Ethernet cable and optic fiber cables are connected correctly;
3) The RJ 45 port of SV unit is supposed to be connected with NVR or other network device by network cable;
4) Connect the SC connectors of TX fiber unit and RX fiber unit by optical fiber;
5) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;
6) Make sure the network is working.

■Specification

Item		SV Unit	IPC Unit
Power	Power Supply	PoE	DC48-57V Power Adaptor
	Consumption	＜5W	
Network Specification	Port	LAN port: 10/100Mbps	
	Transmission distance	LAN port: 0～100m	
Fiber port	Fiber port	1X9, SC	
	wavelength	T1550/R1310nm	T1310/R1550nm
	Transmission distance	20km	
Standard	Network standard	IEEE802.3 10Base-T, IEEE802.3u 100Base- TX/FX, IEEE802.3 af/at	
Status Indication	Rj45 indication	Green:link/act Yellow:power	Green:link/act Yellow:PoE
	Fiber signal indication	Green: link/act Yellow: link	
Protection	ESD	Level III Contact discharge Level III Air discharge Per:IEC61000- 4- 2	
	Lightning protection	Level III Per:IEC61000- 4- 5	
Operating Environment	Work temperature	-10℃ ~ 55℃	
	Storage temperature	-40℃ ~ 85℃	
	Humidity(No-condenson)	0~95%	
Mechanics	Size(L× W× H)	113mm×45.5mm×29mm	
	Material	ABS	
	Color	Black	
	Weight	IPC unit: 58g SV unit: 58g	

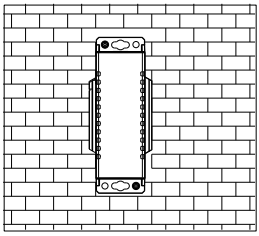
Product are subject to change without prior notice.

■ Troubleshooting

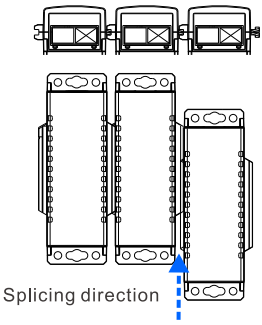
If any trouble in installation, please follow these steps:

- Please make sure you have followed the instruction to install the device;
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- The transmission distance depends on the signal source and cable quality, please do not exceed the maximum transmission distance;
- Please replace a failure device with a proper one to check if the device is broken;
- If the problem still exists, please contact the dealer

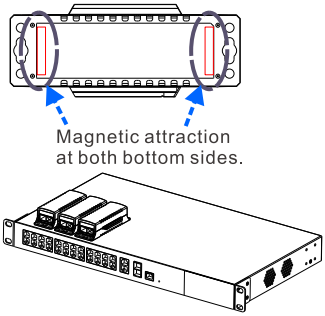
Installation Methods



1.Wall- Mounting

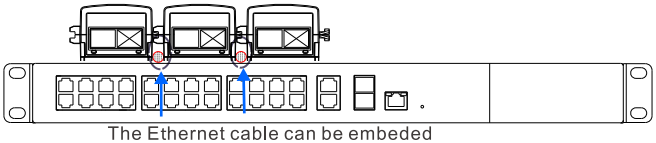


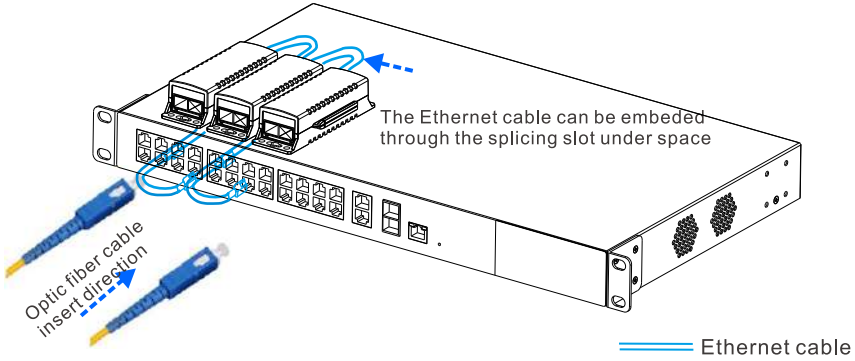
2.Splicing type



3.Magnetic attraction type
(Optional component, you need buy them if necessary)

Network cable collating





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