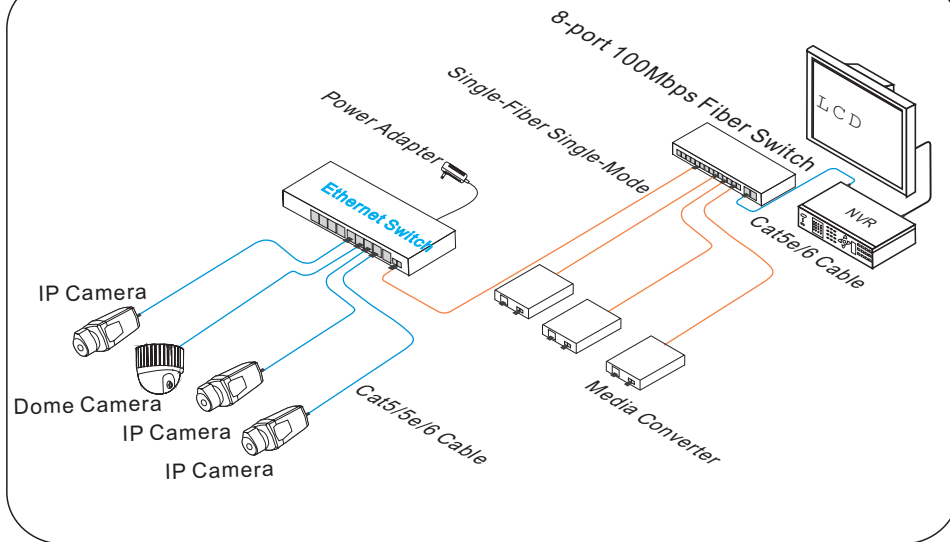


# 8-port 100Mbps Fiber Switch User Manual

VerB 1.0

8-port 100Mbps Fiber Switch is an unmanaged fiber switch provides with 8 \* 100Mbps downlink 1x9 packaged single-mode fiber slots and 2\* 1000Mbps Ethernet ports. It complies with IEEE802.3/802.3u and is designed for network video security surveillance systems and network projects.

## Application



## Feature

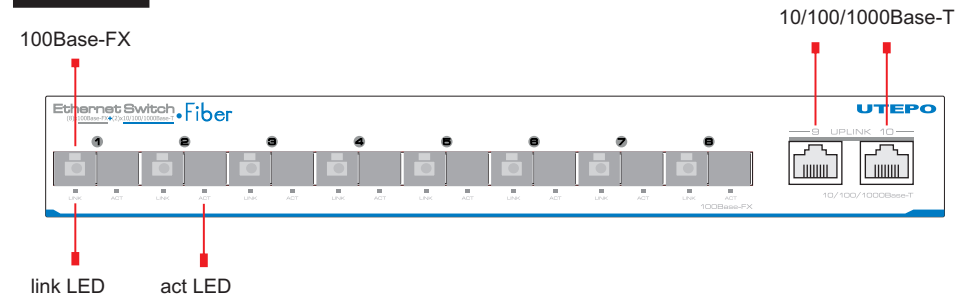
- Provide 8\* 100Mbps downlink fiber ports, which are 1x9 packaged, single mode single fiber 1550nm T/1310nm R. Adopt SC connector, max. 20km transmission distance;
- Provide 2\* gigabit Ethernet Ports, which support 10/100/1000 adaptive, Full-Duplex/Half-Duplex and MDI/MDI-X;
- Built-in power supply, mains on load;
- Adopt fanless design, metal shell effective to heat dissipation, keep working stable;
- Quick installation, easy operation, convenient to desktop and rack installation.

## Notice

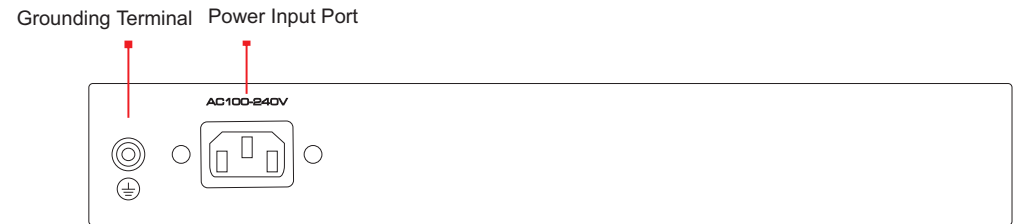
The transmission distance depends on the signal source and cable quality; standard Cat5e/6 cable and fiber is strongly suggested for reaching the maximum transmission distance!

## Board Diagram

### Front Board



### Back Board



## Installation steps

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

- |                               |      |
|-------------------------------|------|
| • 8-port 100Mbps Fiber Switch | 1 pc |
| • AC Power Cable              | 1pc  |
| • Accessory                   | 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) Connect Media Converter with downlink fiber port of 8-port 100Mbps Fiber Switch by optical fiber;
- 3) Connect UPLINK port of 8-port 100Mbps Fiber Switch with NVR or computer by Ethernet cable;
- 4) Connect 8-port 100Mbps Fiber Switch with power adapter;
- 5) Ensure correct installation, working equipments, and stable connection; then power on the system;
- 6) Make sure the devices are powered and operating properly.

## ■ Specification

Item		Description
Power Supply	Power Supply	Mains on load
	Voltage Range	AC100 ~ 240V, 50/60Hz
	Power Consumption	Whole Machine<10W
Network Port Parameter	Network Port	1 ~ 8 Downlink Fiber Ports:100Base-FX, Single Mode Single Fiber(T1550nm/R1310nm T5R3), SC Connector 9 ~ 10 Uplink Ethernet Ports:10/100/1000Base-T
	Transmission Distance	Downlink Fiber Port:20km (Single-module Fiber),500m(Multi-mode Fiber) Uplink Ethernet Port:100m
	Network Standard	IEEE802.3 IEEE802.3u
	Packet Forwarding Rate	4.17Mpps
	Exchange Capability	7.2Gbps
Status	Fiber Port Indicator	2* Red Lights, Respectively Indicate Link and Act
Operation Environment	Operation Temperature	0°C ~ 55°C
	Storage Temperature	-40°C ~ 85°C
	Humidity(Non-condensing)	0 ~ 95%
Mechanics	Dimension(LxWxH)	280 mm×180 mm×44mm
	Material	Iron
	Color	Black
	Weight	1491g

Product specifications subject to change without prior notice.

## ■ Troubleshooting

Please follow the steps below for troubleshooting:

- Make sure you have followed the instruction to install the device
- Make sure the RJ45 cable order is in accordance with the EIA/TIA568A or 568B standards;
- Make sure the fiber has been connected firmly;
- Replace a failed device with a proper one to check if the device is broken;
- If the problem still exists, please contact the factory.

## ■ RJ 45 Making Method

Tools to make RJ45: wire crimper, network tester.

Wire sequence of RJ45 plug should conform with EIA/TIA568A or EIA/TIA568B standard.

- 1) Strip off the 2cm insulating layer to expose the 4 pairs UTP cable;
- 2) Separate the 4 pairs of UTP cable and straighten them;
- 3) Line up the 8 separated pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut the cables to leave 1.5cm bare wire and make sure 8 thread ends are flat and neat ;
- 5) Insert 8 cables into RJ45 plugs, make sure each cable is inserted in each pin;
- 6)Then use wire crimper to crimp the RJ45;
- 7) Do the above 5 steps again to make the another end of the twisted pair and make sure consistent cable order between two ends ;
- 8) Using network tester to test the cable.

Pin color	
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown



EIA/TIA 568A

Pin color	
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B

### ⚠ Notice

- Make sure both ends use EIA/TIA568A connection method when using RJ45 port.
- Make sure both ends use EIA/TIA568B connection method when using RJ45 port.