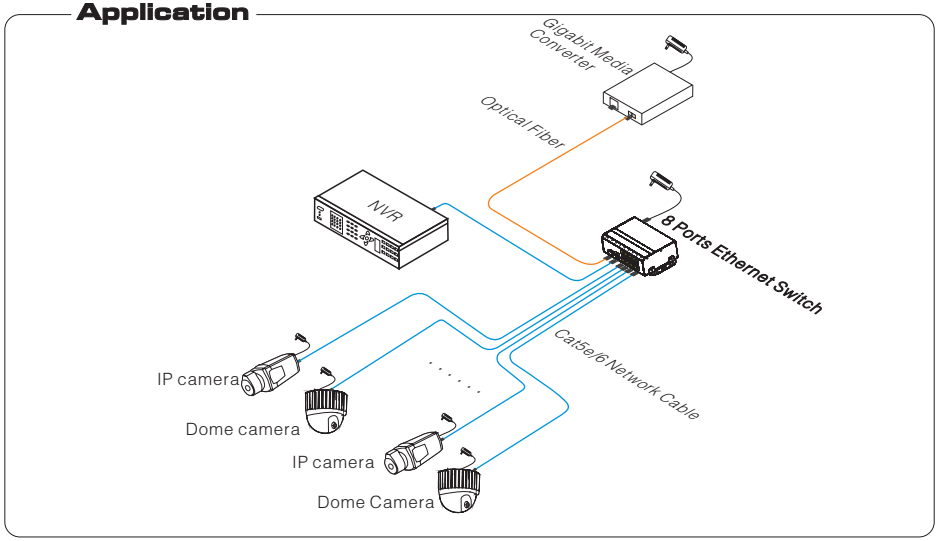
8 Ports Ethernet Switch
User Manual

VerB 1.1

8 ports Ethernet Switch is an unmanaged Ethernet switch. This product provides 1 Gigabit uplink Ethernet port and 1 Gigabit uplink fiber port and 8* 100Mbps Ethernet ports. The product is widely used in video surveillance and network program.

Application



Feature

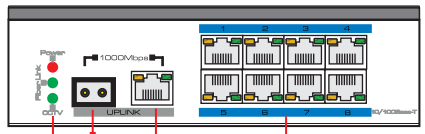
- Support IEEE802.3,IEEE802.3u, IEEE802.3ab, IEEE802.3z standards;
- Provide 1*1000Mbps uplink fiber port and 1*1000Mbps Ethernet port, 8*10/100Mbps downlink Ethernet ports;
- Reset button of 8 PoE ports which can easily solve problems of IP camera crash, without plugging network cable, is very convenient for system maintenance;
- Under one Key CCTV model, the 1~8 downlink ports can only communicate with uplink ports, the speed of downlink port is limited in 10Mbps and the transmission distance is up to 250m ;
- One Key CCTV mode is off by default, but can start while dialing the switch key on the front board to reset the product;
- 1 M packet data cache to ensure large capacity data transfer smoothly;
- 8K MAC address, easy for network system expansion;
- Support IEEE802.3X full duplex data control; support port (Auto MDI/MDIX) function ;
- Redundant power design, support power hot backup;
- Industrial product, fanless wavy metal shell design for good heat dissipation;
- Excellent isolated circuit protection, lighting protection up to 6KV;
- Fast Installation , easily operation, so as to be convenient for wall, din rail and desktop installation.

Caution

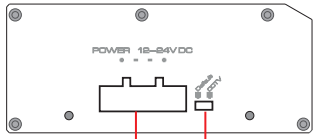
1) Transmission distance is related to the connecting cable. We suggest to use standard Cat5e/6 network cable to get the best transmission result.
2) If use optical uplink port, customer needs to purchase additional SFP module.
3) The equipment must be connected to anti-thunder grounding ,otherwise the protection level will be greatly reduced ; please use NO. 20th or above wire to connect grounding terminal to the earth.

Board Diagram

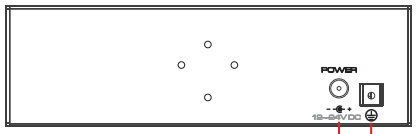
Front Board



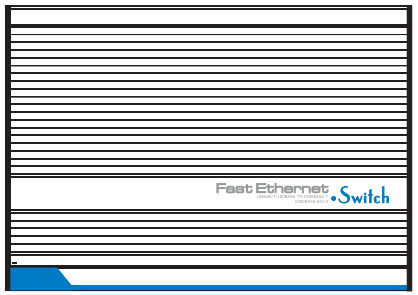
Left Board



Back Board



Up Board



Description:

1) Front board with Ethernet port, the green light is to indicate network status; the yellow light and green light on the uplink network RJ 45 socket is to indicate network working status; the LED on the left side of SFP optical port is to indicate power, CCTV and working status of optical port;
2) The left board and back board have a DC12V~24V power input port respectively;

Installation steps

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

Ethernet switch	1 pc
Power adapter	1 pc
MIT hangers	2 pc
Din rail hanger	1 pc
User manual	1 pc

Please follow the following installation steps

1) Please turn off the signal source and the device's power, installation with power on may damage the device;
2) Use 8pcs network cables to connect 8pcs IP cameras with the product's1~8 RJ45 Ethernet ports;
3) Use another network cable or (optical fiber) to connect switch's UPLINK port with NVR or computer;
4) Connect switch with power adapter;
5) Check if the installation is correct and device is good, make sure all the connection is reliable and power on the system;
6) Make sure every network device has power supply and work normally.

Specification

Item		8 ports Ethernet Switch
Power	Power Supply	Power adapter
	Voltage range	DC12V~24V
	Consumption	< 5W
Ethernet Port Parameter	Ethernet Port	1 ~ 8 ports: default mode: 10/100BASE-TX;CCTV mode:10BASE-T; UPLINK Ethernet port:10/100/1000BASE-T; SFP:1000BASE-X
	Transmission Distance	Downlink port: default mode: 0 ~ 150m; CCTV mode: 0~250m Uplink port: 0 ~ 150m SFP: depends on SFP module performance
	Transmission Medium	Cat5e/6 network cable
Ethernet Exchange Specification	Ethernet Standard	IEEE802.3 10BASE-T; IEEE802.3u 100BASE-TX; IEEE802.3ab 1000BASE-TX; IEEE802.3z 1000-SX/LX; IEEE802.3 X
	Switch Capacity	5.6Gbps
	Packet Forwarding Rate	4.17Mpps
	Packet Buffer	1M
	MAC Address	8K
Indicator Status	Power Indicator Light	1 pc red Light
	CCTV Indicator Light	1 pc(green), the green light on Indicates CCTV Mode start
	Optical Port LED indicator	1pc SFP port working indicator light: green
	Uplink Ethernet Port Indicator	1 pc network working status: green light on RJ 45 port
	Downlink Ethernet Port Indicator	1~8 ports: green light indicates network status, yellow light off
Protection	Port Lighting Protection	6KV , Per: IEC61000-4-5
	ESD	6KV/ 8KV , Per: IEC61000-4-2
Operation Environment	Working Temperature	-40℃~75℃
	Storage Temperature	-40℃~85℃
	Humidity (Non-condensing)	0~95%
Mechanical	Dimension (L×W×H)	159mm×110mm×46.5mm
	Material	Aluminum
	Color	Black
	Weight	545g

Products 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 if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- Please replace a failure device with a properly functioning 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) Seperate 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.