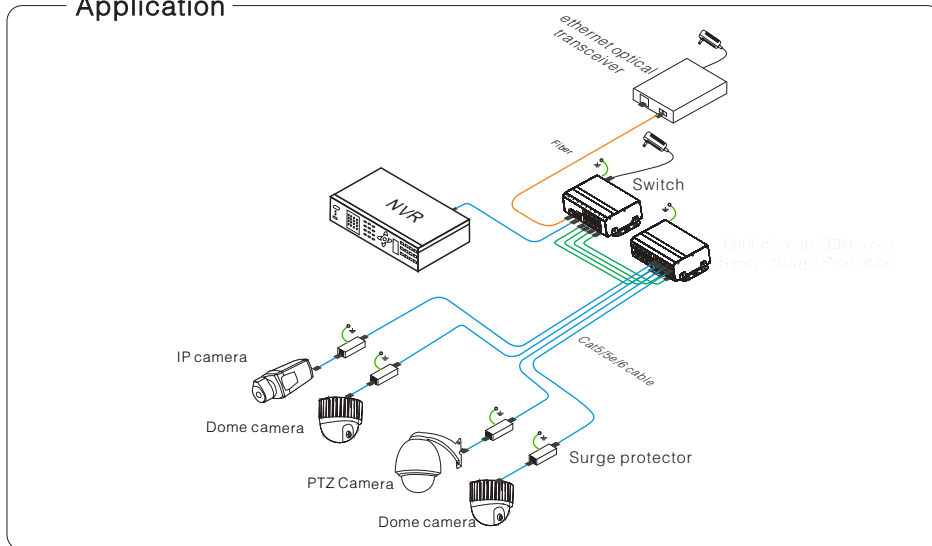


Multichannel Network Signal Surge Protector

The surge protector is an 100M ethernet signal surge protector based on IEC61643-21:2000 standard. The equipment nominal voltage is 5V, maximum continuous running voltage is 6V, limit voltage is less than 20V. It features multi-level protection, large maximum discharge current, low limiting voltage, quick reacting time, low inserting loss etc..It is adapted to Ethernet switch, concentrator, network card, computer signal and power over voltage protection, exempt from the damage caused by reacting over-voltage, operating over-voltage and static electricity discharge etc.. It is widely used in conference system, security surveillance system etc..used in meeting system, security surveillance and office ethernet project.

Application



Feature

- Standard : IEC61643-21:2000 standard;
- Protection: Ethernet signal(bandwidth \leq 100Mbps);
- Feature: Multi-level over voltage protection, large capacity discharge current, low limiting voltage, quick reacting time, low inserting loss;
- Grounding mode: Extending line to the ground;
- Design :Clear mark, easily recognized, aluminum shell, support desktop or on-wall installation.

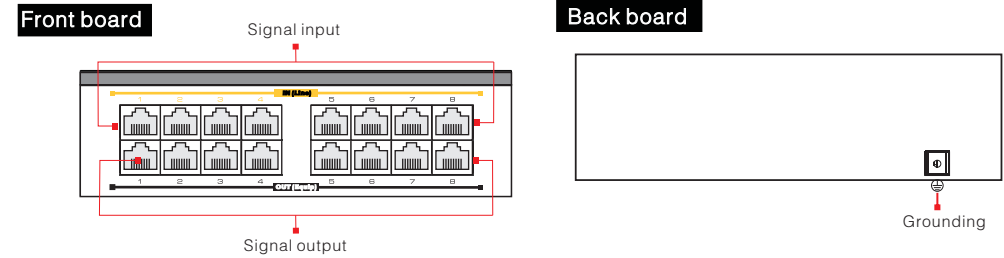
! Notice

- 1) Please make sure that the surge protector output is connected with the protected equipment. The connection should not be reversed!
- 2) The surge protector doesn't work if not strictly abide by the grounding instructions .

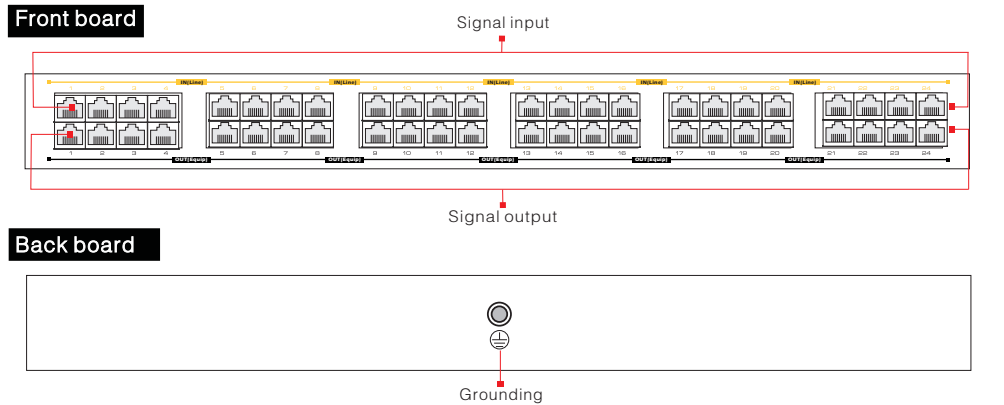
Multichannel Ethernet Signal Surge Protector

Board Diagram

8Channel Ethernet Signal Surge Protector



24Channel Ethernet Signal Surge Protector



Installation Step

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

- | | |
|--|-------|
| ● Multichannel ethernet signal surge protector | 1pc |
| ● Hanger | 1pair |
| ● User manual | 1pc |

Please follow the installation step

- 1) Before inserting protector into system, please make sure the grounding grid reach the standards;
- 2) Please ensure that the connection is stable;
- 3) Please ensure that the grounding cable of surge protector is connected with the main grounding cable in the room as short as possible.

! Notice

- 1) Protector possess signs of input(IN), output(OUT). Please ensure that the output end is connected with the protected equipment, otherwise it will cause the damage of surge protector.
- 2) Please check the plug if the consumption increases. You can either re-connect it or replace the protector.
- 3) Please don't un back the component personally

Specification

Item		Description		
Product Mode		8 ports	24ports	
Ethernet Signal	Nominal Operational Voltage	5V		
	Max Continuous Operational Voltage	6V		
	Nominal Discharge Current(8/20us)	5KA		
	Max Discharge Current(8/20us)	10KA		
	Voltage Protection (10/700us)	1-2	<20V	
		3-6	<20V	
	Insulation Resistance	≥0.4MΩ		
	Inserting Loss	≤0.9dB		
	Bandwidth	100Mbps		
	Response Time	≤1ns		
Protection Cable	1, 2, 3, 6			
Protection Route	8	24		
Environment	Working Temperature	-20°C ~ 55°C		
	Storage Temperature	-20°C ~ 70°C		
	Humidity(non condense)	0 ~ 95%		
Structure	Size	110mm × 162mm × 46mm	430mm × 115mm × 44.5mm	
	Material	Aluminum	Irony	
	Color	Black	Black	
	Weight	596g	2041g	
Stability	MTBF	>30000h		

product are subject to change without prior notice

Trouble shooting

Check Protector

- Use multi-meter “Ω × 10” grade to measure the protector's resistance between input and output core wires. The value should be less than 4.7Ω . If it is too high or malfunctions, please replace the protector.
- Use multi-meter “Ω × 1M” grade to measure core wire's resistance to the shell, which is about 400kΩ; the resistance for the cable to the ground and shell to the ground should be infinite. if the measured value is incorrect, please replace the protector.

RJ 45 making method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

- 1) Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;
- 2) Depart the 4 pairs UTP cable and straighten them;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut out 1.5 cm cable wrap and leave the bare wire;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6) Then use wire crimper to crimp it;
- 7) Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- 8) Using network tester to test the cable whether is working.

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



Notice: 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

When choose RJ-45 make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A. When choose RJ-45 make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.