UTP3-GSW16/GSW24

Full Gigabit Ethernet Switch User Manual

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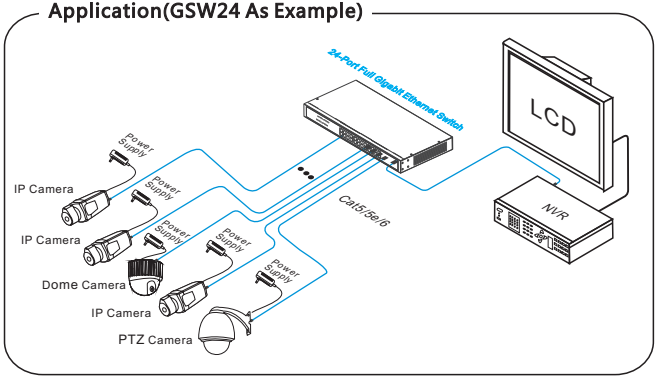
V1.0

Equipped with iron housing, the unmanaged Gigabit Ethernet switches are used for network monitoring & building intercom project etc.. With features of large buffer cache, 6KV surge immunity, 8K ESD immunity, it keeps the interfaces from the damage caused by indirect lightning and ensures the high-speed forwarding and high reliability of video monitoring data.

Application(GSW24 As Example)



■Feature

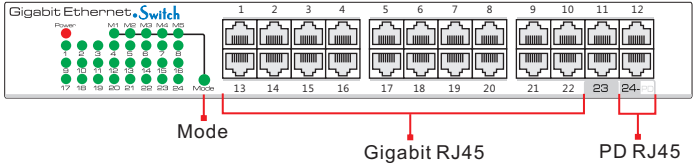
- UTP-GSW16/24 Provide 16/24*10/100/1000M RJ45 ports.
- 6KV surge immunity on port & power supply.
- 44/56G switching fabric, 9K jumbo frame.
- Support powered method of PoE(Port 16/24) or AC
- Five operating modes (STANDARD, SAG&LP, VLAN, LOCK, ISOL)
- Plug and play, 13'' housing, desktop & rackmount design.

⚠Notice

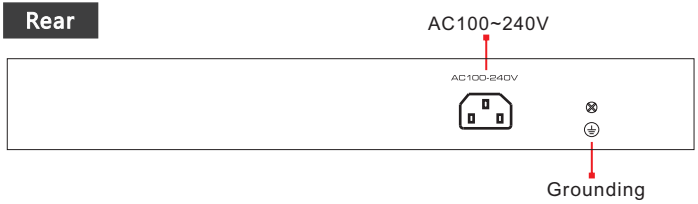
It is recommended to use the standard Cat5e/6 network cable to reach the optimal transmission distance.

■Board Diagram

Front(GSW24 As Example)



Rear



⚠Notice

Device must be connected with lightning protection grounding; otherwise protection level will be greatly reduced; please use above No.20 wire to connect the grounding terminal;

■Installation Steps

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

● 16/24-Port Gigabit Engineering Exclusive Switch	1pc
● Power Cable	1pc
● User Manual	1pc
● Mounting Kits (UTP3-GSW16/24)	1pair

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 cameras with downlink ports of product by Ethernet cable;

3) Connect UPLINK port of product with NVR or PC by Ethernet cable;

Specification

Model	UTP3-GSW16	UTP3-GSW24
Gigabit RJ45 Port	16	24
Surge Immunity	6KV common mode / 4KV difference mode	
Switching Fabric	44Gbps	56Gbps
Packet Forwarding Rate	24Mpps	36Mpps
Interface Buffer	2.75M	2.75M
MAC Address	8K	8K
Indicator	Link/Act Indicator per port, 1*Power Indicator,5*Mode Indicator	
Indicator Status	Link/Act·· Connecting (ON), Data transmitting(BLINK), Linkage fault(OFF) Power(PWR): Supply power (ON), Power supply failure (OFF)	
ESD Immunity	Contact discharge 6KV, air discharge 8KV	
External Power Supply	Input: 100V~240V AC,50/60Hz	
Operation Mode	**M1(STANDARD):** Disable flow control of all ports, which is suitable for low-speed & non-disk networking such as cloud course & cloud desktop. **M2(SAG & LP):** All ports support automatic detection and block for loop links, and the last two ports could be an aggregation group. The mode is suitable to engineering fields such as video monitoring, requiring for high bandwidth and reliability. **M3(VLAN):** Port 1 to 22 are isolated respectively, but can communicate with Port 23 and 24, preventing the system from IP address conflict. **M4(LOCK):** Limit MAC learning with learning number per port is 1 and mark the port with 'lock' status, preventing the system from ARP attack. **M5(ISOL):** Isolation between Port 1-12 and Port 13-24, which can be used for isolation of monitoring system and office network, to ensure the complete network data.	
Storage Temperature	-40℃~+85℃	
Operating Humidity	5%-95% (Non-condensing)	
Dimension mm (L*W*H)	294*180*44	

Product parameters are project to change without prior notice.

ITEM	Hazardous Substance					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
PCB	○	○	○	○	○	○
PCBA Solder Joint	×	○	○	○	○	○
Components	×	○	○	○	○	○
Metal Hardware	○	○	○	○	○	○
Plastic Hardware	○	○	○	○	○	○
Paper Accessories	○	○	○	○	○	○
Glass	○	○	○	○	○	○
CD	○	○	○	○	○	○
Cable	○	○	○	○	○	○

This table is made base on GB/T 26572 standard.
○: Indicates that the concentration of the hazardous substance in all homogeneous materials in the part is below the relevant threshold of the GB/T 26572 standard.
×: Indicates that the concentration of the hazardous substance in all homogeneous materials in the part is above the relevant threshold of the GB/T 26572 standard.(However, this project only has a small number of applications in the inventory or processed products, and according to the plan, the environmental protection switch is being carried out, which will meet the above requirements

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The term of this environmental protection only applies to the product working under the conditions specified in the user manual

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;

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

- 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.