



GTS-A1-06-41



GTS-A1-10-81

Features

4 or 8-Port 10/100Mbps IEEE 802.3af/at PoE Switch (End-Span PSE)

- ▶ Comply with IEEE802.3, IEEE802.3u, IEEE802.3af/at standards
- ▶ Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- ▶ 4 or 8-Port support 48V-56VDC power to PoE powered devices
- ▶ Provide 15.4W or 30W power to powered devices
- ▶ Extra 1-Port 10/100Mbps UPLINK RJ-45
- ▶ 60 or 120-watts PoE budget
- ▶ PoE data & power transmission distance up to 100meters
- ▶ Port based VLAN for Enhanced Security
- ▶ **Transmission distance max up to 250meters when VLAN is enabled**
- ▶ Excellent anti-thunder, anti-static and anti-interference ability
- ▶ Restart function helps master IC reset wholly
- ▶ External 53VDC/1.25A or 2.5A power adapter included
- ▶ Easy and convenient to use, plug & play, no need to configure
- ▶ Galvanized housing for stable and durable working life

Overview

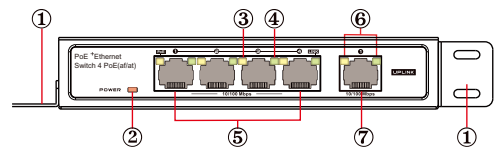
The GTS-A1-06-41/GTS-A1-10-81 provides 4 or 8-port 10/100Mbps IEEE 802.3af/at Power over Ethernet with a total of 60 or 120 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The GTS-A1-06-41/GTS-A1-10-81 is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 4 or 8 x 10/100Base-TX ports featuring 15.4-watt-802.3af/30-watt 802.3at PoE in RJ-45 interfaces and extra 1 x 10/100Mbps UPLINK RJ-45 port to keep a cascade connection with another switch or NVR. For instance, one GTS-A1-06-41/GTS-A1-10-81 can be combined with one 4 or 8-Channel NVR and 4 or 8 PoE IP cameras as a kit for the administrators to centrally and efficiently manage the surveillance system in the local LAN and the remote site via Internet.

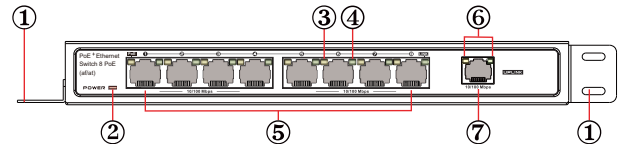
With data and power over Ethernet from one unit, the GTS-A1-06-41/GTS-A1-10-81 reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 4 or 8 PoE interfaces, the GTS-A1-06-41/GTS-A1-10-81 is ideal for small businesses and workgroups requiring deploying the PoE for the wireless access points, IP-based surveillance IP phones in any places easily, efficiently and cost-effectively.

Products Panel Figure

Front panel



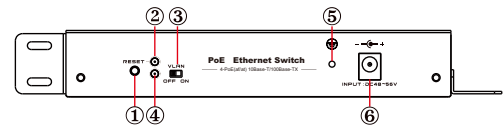
GTS-A1-06-41



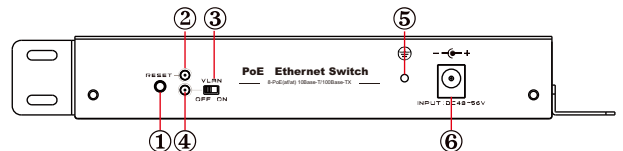
GTS-A1-10-81

- ① Rack-mounting ears: Cabinets for product installation or Wall installation
- ② Power Indicator: Red Light on: with power Light off: no power
- ③ PoE Indicator: Yellow Light on: when device is powered  
Light off: when device is not detected or not powered
- ④ Link/ Act Indicator: Green LED on: link up off: link down blinks: data transfer
- ⑤ Downlink Port: Transfer data from other IP devices to the switch
- ⑥ Uplink Indicator: Green LED on: link up off: link down blinks: data transfer  
Yellow LED on: link speed is 100Mbps off: link speed is 10Mbps
- ⑦ Uplink Port: Transfer data from PoE ports to other devices(NVR/Switch/ADSL)

Rear panel



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- ① Reset Button: Press the reset button to turn on indicator and the device restarts
- ② Reset Button Indicator: Green
- ③ VLAN Button: Turn on VLAN button: indicator on and VLAN function starts  
Turn off VLAN button: indicator off and VLAN function stops
- ④ VLAN Indicator: Green
- ⑤ Ground Connection
- ⑥ Input: DC 48~56V

Quick Setup Guide

Package Contents

- 1) GTS-A1-06-41/GTS-A1-10-81: 1pc
- 2) 53VDC/1.25A or 2.5A Power adapter: 1pc
- 3) Screw: 6pcs
- 4) Rubber feet: 4pcs
- 5) Mounting-ears: 2pcs
- 6) Manual: 1pc

- Step1: Begin with all input/output devices turned off with power cables removed
- Step2: Connect RJ-45 port of PoE cameras with Downlink RJ-45 port of PoE switches in standard Cat 5e/6 cables
- Step3: Connect Uplink RJ-45 port of PoE switches with RJ-45 port of NVR or computer or other devices in standard Cat 5e/6 cables
- Step 4: Connect 53VDC/1.25A or 2.5A power adaptor with PoE switches
- Step 5: Make sure above connection is properly finished, then turn on power

## VLAN Introduction

At present, applications of Ethernet switch is very wide. To satisfy the needs of various customers, it is urgent for network services to solve the problems of broadcast domains, bandwidth and security, so a new kind of technology of VLAN emerged.

Each DOWNLINK RJ-45 port and UPLINK RJ-45 ports form a separate workstation respectively. In the same VLAN workstation, regardless of which switch they are actually connected to, the communication between them is as if they were on a separate switch. Broadcasts in the same VLAN can only be heard by members of the VLAN, but not in other VLANs, which can control the generation of unwanted broadcast storms. At the same time, if there is no routing, different VLANs cannot communicate with each other, which increases the security of different departments in the enterprise network.

When the VLAN mode is enabled, the data cannot be forwarded UPLINK RJ-45 ports can communicate with each other. **The bandwidth of DOWNLINK RJ-45 ports is forced to 10Mbps mode to adapt to the long distance transmission of max 250meters.** The bandwidth of UPLINK RJ-45 port is 100Mbps, which keeps a cascade connection with another switch or NVR.

### Note:

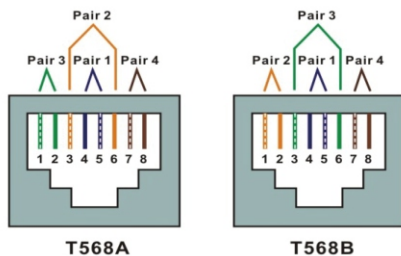
- After you turn on VLAN button, please press reset button or reboot the power of the device, then VLAN mode is enabled.
- The maximum extended distance reaches up to 250 meters. The actual extended distance will vary according to the quality of the cable, specific camera, and on-site environment.

## How to make a network cable

To create a network cable, you will first need the equipment listed below.

- Cat5e, Cat6, or Cat7 cable
- RJ-45 connectors
- Crimping tool
- Wire stripper or knife

The wire sequence of RJ45 connector must comply with international standard of EIA/TIA 568A or EIA/TIA 568B.



	1	2	3	4	5	6	7	8
T568A	White Green	Green	White Orange	Blue	White Blue	Orange	White Brown	Brown
T568B	White Orange	Orange	White Green	Blue	White Blue	Green	White Brown	Brown

- We recommend stripping at least a half of an inch off of the cable to expose the inner wires.
- Separate the wires within the cable after the network cable jacket has been removed so that they can be put into the RJ-45 connector.
- The CAT5 twisted-pair cable consists of four twisted wires, each color coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA 568B.
- Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wires are straighten and neat.
- Place the cable into the RJ-45 connector and then use the crimping tool to attach the connector.
- Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be identical.
- Make sure to test the cables before installing them once both ends of the cable have been completed.

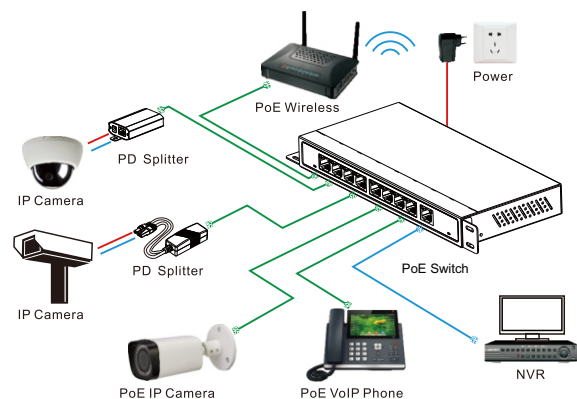
### Note:

- All RJ-45 Ports of this device support Auto MDI/MDIX, so the different wire sequence of both ends of the cable is allowed.
- Up to two units can be cascaded.

## Technical Specifications

Model		GTS-A1-06-41	GTS-A1-10-81
Product Name		4 or 8-Port 10/100Mbps IEEE 802.3af/at PoE Switch	
Power Supply	Power Supply Mode	Power Adaptor	
	Voltage Range	DC48~56V	
	Power Consumption	The device <5W PoE power supply ≤60W or 120W	
Network Port Parameter	Network Port	Ethernet Downlink port: 10/100Mbps Ethernet Uplink port: 10/100Mbps	
	Transmission Distance	Downlink port: 100m Mandatory 10Mbps up to 250m Uplink port: 100m	
	Transmission Medium	Downlink port: Cat5e/6 standard cable Uplink port: Cat5e/6 standard cable	
	PoE Standards	IEEE802.3 af/at standards	
	PoE Power Supply Mode	End-span method	
	PoE Power Supply Wattage	Each port ≤30W Whole devices 60W or 120W	
Network Switch Specification	Network Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3az	
	Swap Mode	Store-and-forward	
	Data-Caching Mechanism	448K	1.25M
	MAC Address List	1K	4K
	Throughput	0.74Mpps	1.33Mpps
Indicator	Power Indicator	Red LED on: power on	
	Fast Ethernet Uplink Port	Green LED on: link up, off: link down, blinks: data transfer Yellow LED on: link speed is 100M, off: link speed is 10M	
	PoE Indicator	4 or 8 PoE indicator light(yellow)	
	PoE Network Port Indicator	4 or 8 port indicators blink while data transfer	
	Reset Indicator	Green light on when press reset button	
	VLAN Indicator	Green light on when Turn on VLAN button	
Button	Reset Button	Press the reset button to turn on indicator (green) and the device restarts	
	Button	Turn on VLAN button: indicator on and VLAN function restarts Turn off VLAN button: indicator off and VLAN function stops	
Protection Level	Surge Protection	2KV(common mode),10/700us IEC61000-4-5 500V(differential mode),10/100us IEC61000-4-5	
	Electrostatic Protection	Contact Discharge: ±2KV Air Discharge: ±2KV Standard: IEC61000-4-2	
Reliability	Mean time between failures (MTBF)	> 50000h	
Mechanical	Dimensions (L*W*H)	115mmx78mmx27mm	211mmx118mmx35mm
	Housing	Galvanized	
	Body Color	Black	
	Net Weight	425g	612g
Environmental	Operating Temperature	0°C~55°C	
	Storage Temperature	-40°C~70°C	
	Relative Humidity	0~95% (non-condensing)	

## Application Diagram



## After-sales Service

For breakdown caused by product quality, we guarantee products return within 15 days, exchange within 30 days, free warranty within 1 year. Guarantee period counts from date of purchasing.