



GTS-C1-10-8G2G

## Features

### 8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch(End-Span PSE)

- ▶ Comply with IEEE802.3, IEEE802.3ab, IEEE802.3u, IEEE802.3az, IEEE802.3af/at standards
- ▶ Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- ▶ 8-Port support 48V-56VDC power to PoE powered devices
- ▶ Provide 15.4W or 30W power to powered devices
- ▶ Extra 2-Port 10/100/1000Mbps UPLINK RJ-45
- ▶ 120-watts PoE budget
- ▶ PoE data & power transmission distance up to 100meters
- ▶ Port based VLAN for Enhanced Security
- ▶ Excellent anti-thunder, anti-static and anti-interference ability
- ▶ Surge Protection: 6KV
- ▶ Restart function helps master IC reset wholly
- ▶ Easy and convenient to use, plug & play, no need to configure
- ▶ Galvanized housing for stable and durable working life

## Overview

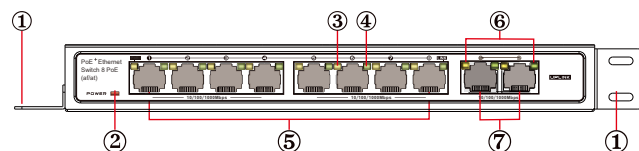
The GTS-C1-10-8G2G provides 8-port 10/100/1000 Mbps IEEE 802.3af/at Power over Ethernet with a total of 120 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The GTS-C1-10-8G2G is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 8 x 10/100/1000Base-TX ports featuring 15.4-watt 802.3af/30-watt 802.3at PoE in RJ-45 interfaces and extra 2 x 10/100/1000Mbps UPLINK RJ-45 port to keep a cascade connection with another switch or NVR. For instance, one GTS-C1-10-8G2G can be combined with one 8-Channel NVR and 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-C1-10-8G2G 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 8 PoE interfaces, the GTS-C1-10-8G2G 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-C1-10-8G2G

- 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 10/100/1000Mbps  
off: link speed is 10/100Mbps
- ⑦ Uplink Port: Transfer data from PoE ports to other devices(NVR/Switch/ADSL)

### Rear panel



GTS-C1-10-8G2G

- 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-C1-10-8G2G: 1pc | 2) 53VDC/1.25A or 2.5A Power adapter: 1pc |
| 3) Screw: 10pcs        | 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 with Uplink RJ-45 port of PoE switches with RJ-45 port of NVR or computer or other devices in standard Cat 5e/6 cables
- Step4: Connect 53VDC/1.25A or 2.5A power adaptor with PoE switches
- Step5: 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 worksta on respectively. In the same VLAN worksta on, 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 genera on of unwanted broadcast storms. At the sam me, 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 among DOWNLINK RJ-45 ports, but DOWNLINK RJ-45 ports and UPLINK RJ-45 ports can communicate with each other. The bandwidth of UPLINK RJ-45 port is 1000Mbps, which keeps a cascade connect on with another switch or NVR.

**Note:**

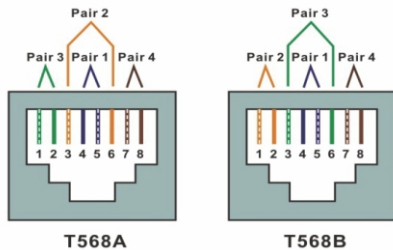
After you turn on VLAN button, please press reset button or reboot power the device, then VLAN mode is enabled.

## How to make a network cable

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

1. Cat5e, Cat6, or Cat7 cable
2. RJ-45 connectors
3. Crimping tool
4. 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

- 1) We recommend stripping at least a half of an inch off of the cable to expose the inner wires.
- 2) 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.
- 3) The CAT5 twisted-pair cable consist of four twisted wires, each color coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA 568B.
- 4) Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wires are straighten and neat.
- 5) Place the cable into the RJ-45 connector and then use the crimping tool to attach the connector.
- 6) Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be identtcal.
- 7) Make sure to test the cables before installing them once both ends of the cable have been completed.

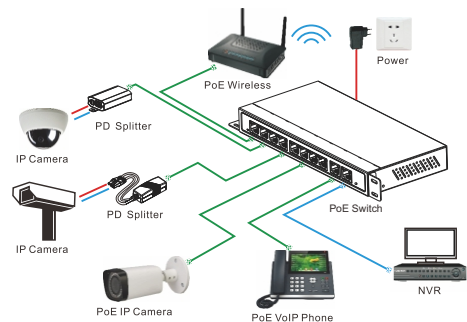
**Note:**

All RJ-45 Ports of this device support Auto MDI/MDIX, so the different wire sequence of both ends of the cable is allowed.

## Technical Specifications

Model		GTS-C1-10-8G2G
Product Name		8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch
Power Supply	Power Supply Mode	Power Adaptor
	Voltage Range	DC48~56V
	Power Consumption	The device <8W PoE power supply ≤120W
Network Port Parameter	Network Port	Ethernet Downlink port: 8X10/100/1000Mbps
		Uplink 2 port: 10/100/1000Mbps
	Transmission Distance	Downlink port: 100m
		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
Network Switch Specification	PoE Power Supply Wattage	The device <8W PoE power supply ≤120W
	Network Standards	IEEE802.3, IEEE802.3ab, IEEE802.3u, IEEE802.3az
	Swap Mode	Store-and-forward
	Data-Caching Mechanism	1.5M
	MAC Address List	4K
Indicator	Throughput	14.88Mpps
	Power Indicator	Red LED on: power on
	Uplink RJ-45 Port Indicator	Green LED on: link up off: link down blinks: data transfer Yellow LED on: link speed is 1000Mbps off: link speed is 10/100Mbps
	PoE Indicator	8 PoE indicator light(yellow)
	PoE Network Port Indicator	8 port indicators blink while data transfer
	Reset Indicator	Green light on when press reset button
Button	VLAN Indicator	Green light on when press VLAN button
	Reset Button	Press the reset button to turn on indicator (green) and the device restarts.
Protection Level	VLAN Button	Turn on VLAN on: indicator on and VLAN restarts Turn off VLAN on: indicator off and VLAN stops
	Surge Protection	6KV(common mode),10/700us IEC61000-4-5 2KV(differential mode),10/700us IEC610000-4-5
Reliability	Electrostatic Protection	Contact Discharge: ±4KV Air Discharge: ±6KV Standard: IEC61000-4-2
	Mean time between failures (MTBF)	> 50000h
Mechanical	Dimensions (L*W*H)	219.6mmx105.0mmx27.6mm
	Housing	Galvanized
	Body Color	Black
	Net Weight	612g
Environmental	Operating Temperature	0°C~55°C
	Storage Temperature	-40°C~85°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.