GTS-B1-18-162G

GTS-B1-26-242G

Features

16 or 24-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
▶ 16 or 24-Port support 48V-56VDC power to PoE powered devices
▶ Provide 15.4W or 30W power to powered devices
▶ Gigabit uplink RJ-45 port: 2*10/100/1000Mbps
▶ 200 or 250 watts PoE budget
▶ PoE data & power transmission distance up to 100 meters
▶ Port based VLAN for Enhanced Security
▶ Transmission distance max up to 250 meters when VLAN is enabled
▶ Excellent anti-thunder, anti-static and anti-interference ability
▶ Restart function helps master IC reset wholly
▶ Built-in 200W or 250W power supply
▶ Easy and convenient to use, plug & play, no need to configure
▶ Galvanized housing for stable and durable working life

Overview

The GTS-B1-18-162G/GTS-B1-26-242G provides 16 or 24-port 10/100 Mbps IEEE802.3af/at Power over Ethernet with a total of 200 or 250 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The GTS-B1-18-162G/GTS-B1-26-242G is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 16 or 24 x 10/100Mbps ports featuring 15.4-watt 802.3af/30-watt 802.3at PoE in RJ-45 interfaces and extra 2-Gigabit uplink port: 10/100/1000Mbps RJ-45 to keep a cascade connection with another switch or NVR. For instance, one 16 or 24-Channel NVR and 16 or 24 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-B1-18-162G/GTS-B1-26-242G 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 powe can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 16 or 24 PoE interfaces, the GTS-B1-18-162G/GTS-B1-26-242G 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-effecvely.

## Products Panel Figure

Front panel
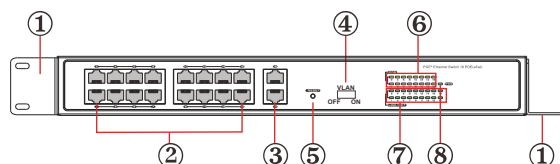
GTS-B1-18-162G
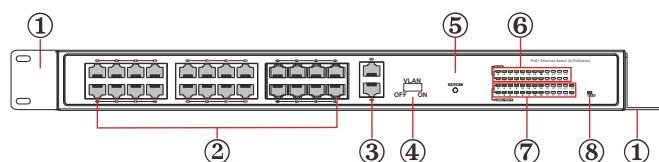
GTS-B1-26-242G

① Rack-mounting ears: Cabinets for product installartion or Wall installation
② Downlink RJ-45 Port: Transfer data from other IP devices to the switch
③ Gigabit Uplink RJ-45 Port: Transfer data from PoE ports to other devices(NVR/Switch/ADSL)
④ VLAN Button: Turn on VLAN button: indicator on and VLAN function starts
   Turn off VLAN button: indicator off and VLAN function stops
⑤ Reset Button: Whole machine will restart while press the button
⑥ PoE Indicator: Yellow Light on: when device is powered
   Light off: when device is not detected or not powered
⑦ Link/ Act Indicator: Green LED on: link up off: link down blinks: data transfer
⑧ Power Indicator: Red Light on: with power   Light off: no power

Rear panel
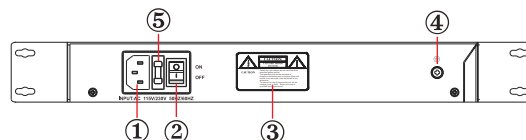
GTS-B1-18-162G
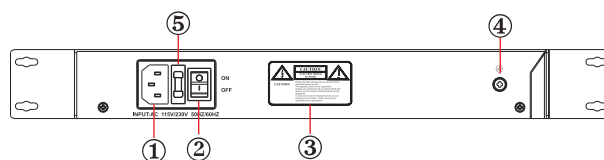
GTS-B1-26-242G

① Input AC 96~264V
② Power Switch: Turn on with power, Turn off no power
③ Warning contents
④ Ground Connection
⑤ Fuse: Max 10A

Quick Setup Guide

Package Contents

1) GTS-B1-18-162G/GTS-B1-26-242G: 1pc   2) AC power cord: 1pc
3) Screw: 10pcs   4) Manual: 1pc
5) Mounting-ears: 2pcs   6) Rubber feet: 4pcs

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
Step4: Input AC power cord into power socket of PoE switch
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 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 among DOWNLINK RJ-45 ports, but DOWNLINK RJ-45 ports and 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 1000Mbps, which keeps a cascade connection with another switch or NVR.

Note:
1. When you turn on VLAN button, please press reset button or reboot the power of the device, then VLAN mode is enabled.
2. 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.
1. Cat5e, Cat6, or Cat7 cable
2. RJ-45 connectors
3. Crimping tool

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

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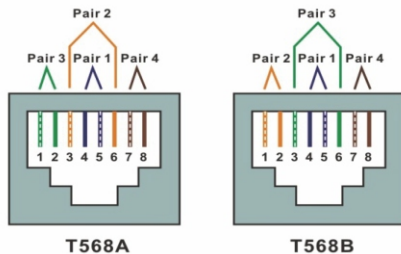
	1	2	3	4	5	6	7	8
T568A	White Green	Green	White Orange	Blue	White Blue	Orange	White Brown	Brown
T568B	White Orange	Orange	White Green	Blue	White Blue	Green	White Brown	Brown

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 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.
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 identical.
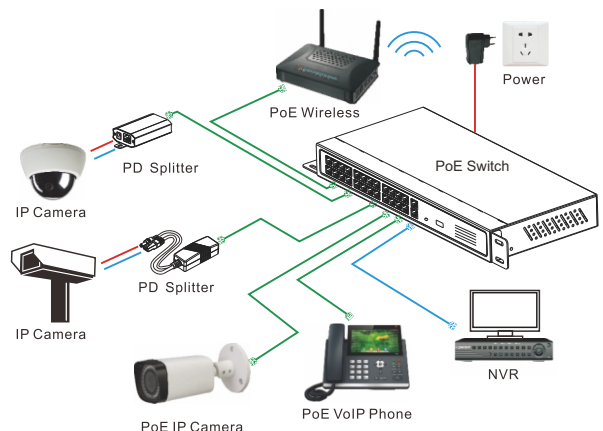7) Make sure to test the cables before installing them once both ends of the cable have been completed.

Note:
1. All RJ-45 Ports of this device support Auto MDI/MDIX, so the different wire sequence of both ends of the cable is allowed.
2. Up to three units can be cascaded for 16-port PoE switch.
3. Up to two units can be cascaded for 24-port PoE switch.

Technical Specifications

Model		GTS-B1-18-162G	GTS-B1-26-242G
Product Name		16-Port 10/100Mbps IEEE 802.3af/at PoE Switch	24-Port 10/100Mbps IEEE 802.3af/at PoE Switch
Power Supply	Power Supply Mode	Built-in Power Supply	
	Voltage Range	AC96~264V	
	Power Consumption	The device <10W PoE power supply≤200W	The device <10W PoE power supply≤250W
Network Port Parameter	Network Port	Ethernet Downlink RJ-45 port: 16/24*10/100Mbps	
		Gigabit Uplink RJ-45 port: 2*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	
	PoE Power Supply Waage	Each port ≤30W Whole device≤200W	Each port ≤30W Whole device≤250W
Network Switch Specification	Network Standards	IEEE802.3, IEEE802.3ab, IEEE802.3ad, IEEE802.3u, IEEE802.3az, IEEE802.3z	
	Swap Mode	Store-and-forward	
	Data-Caching Mechanism	4M	4M
	MAC Address List	16K	16K
	Throughput	5.3568Mpps	6.5472Mpps
Indicator	Power Indicator	Red LED on: power on	
	Uplink Gigabit Port	Green LED on: link up, off: link down, blinks: data transfer	
	PoE Indicator	16 PoE indicator light(yellow)	24 PoE indicator light(yellow)
	PoE Network Port Indicator	16 port indicators blink while data transfer	24 port indicators blink while data transfer
Button	Reset Button	Press the reset button and the device restarts	
Protection Level	Surge Protection	2KV(common mode),10/700us IEC61000-4-5 0.5KV(differential mode),10/700us IEC610000-4-5	
	Electrostatic Protection	Contact Discharge: ±4KV Air Discharge: ±4KV Standard: IEC61000-4-2	
Reliability	Mean time between failures (MTBF)	＞50000h	
Mechanical	Dimensions (L*W*H)	300mm x 221mm x 43.6mm	440mmx292mmx43.6mm
	Housing	Galvanized	
	Body Color	Black	
	Net Weight	2.5kg	4.25kg
Environmental	Operating Temperature	0℃~55℃	
	Storage Temperature	-40℃~85℃	
	Relae Humidity	0~95% (non-condensing)	

Application Diagram

Power
PoE Wireless
PD Splitter
IP Camera
PoE Switch
PD Splitter
IP Camera
NVR
PoE IP Camera
PoE VoIP Phone

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.