Copyright Statement

1. Introduction

TEG1016G/1024G is a rack-mountable Gigabit Ethernet Switch, which is specially designed to resolve data transfer bottleneck for enterprises and Internet Cafés. It has 16/24 10/100/1000Mbps RJ-45 Auto-negotiation Ethernet ports, supports auto MDI/MDI-X function. In addition, the Gigabit ports can be used as normal ports to connect Gigabit terminals such as PC, as well as Uplink ports to connect backbone network. You can replace the 10/100Mbps switch with the TEG1016G/TEG1024G to resolve the bottleneck issues of server and terminal connectivity. Meanwhile, it can be used as main switch to connect the Gigabit LAN of enterprises or Internet Cafés, and greatly improves the transmission rate between different departments, or terminal and server. In a word, it is a cost-effective Gigabit Ethernet Switch with high performance.

1.1 Switch Features

- Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE 802.3x standards.

- Supports IEEE802.3x flow control for full-duplex, and backpressure flow control for half-duplex.
- Provides 16/24 Gigabit self-adaptive RJ-45 ports, supports 802.3 NWay Auto-negotiation.
- Each RJ-45 port supports Auto-MDI/MDIX function.
- Supports MAC address auto-learning and aging function.
- Adopts store- and- forward switching method.
- Supports up to 32Gbps/48Gbps backplane bandwidth.
- Transmission rate of each port reaches up to 1488095pps.
- Supports 8K MAC address table
- Equipped with high performance power supply.

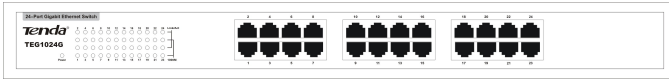
1.2 Package Contents

Please check the items carefully after you open the packing as below: (The listed items are for reference only)

- One Gigabit Ethernet Switch
- One power cord
- One User Guide
- One Set of L-shaped Bracket （two mounting ears, matched screws）
- Four foot pads

1.3 Front Panel and Rear Panel Specifications

On the front panel, there are 16/24 1000Mbps RJ45 ports and LED indicators as well as 1 power indicator.



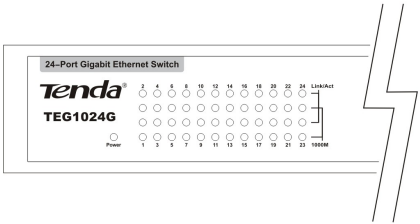
Front panel view of the TEG1024G Switch

On the rear panel there are 1 AC power port and the matched power supply mark.

Rear panel view of the Switch

1.4 LED Indicator Specifications

The LED indicators of the Switch include Power, Link/ACT and 1000Mbps indicators. You can see their operating situation through these green LED indicators.



LED indicators of the TEG1024G Switch

Please refer to the list below for the LED indicator definition.

LED Indicator	Status	Description
POWER	Always ON	Indicates the Switch is powerd on
	OFF	Indicates the Switch is powerd off
1000Mbps	ON	The Switch connects to the other devices at 1000Mbps speed.
	OFF	Indicates there's no connection or the speed is at 10Mbps or 100Mbps
LINK/ACT	Flashing	Indicates the switch is transmitting data
	Always ON	Indicates no data is being transmitting

2. Installation

2.1 Installation instructions

Before connecting to the network, please pay attention to the following

instructions:

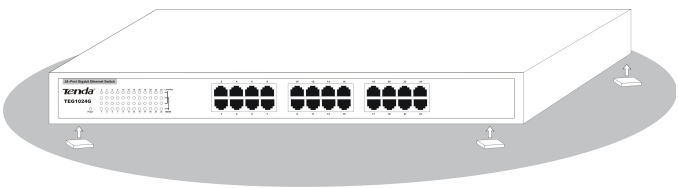
- Put the switch in clean place where there is adequate ventilation
- Place the switch on stable desk in case of falling.
- Make sure there's at least 10cm's space for dissipation.
- Don't put heavy articles on the Switch.
- When the devices need to be used by overlapping, make sure the vertical distance is over 1.5cm.
- The power supply used should match the required power specification of the switch.

2.2 Installation methods

TEG1016G/TEG1024G switch can be installed to desktop or standard 19-inch rack

1. Install the switch to the desktop.

Install the 4 included foot pads to the corresponding position at the bottom of the switch and then place it on the desktop.

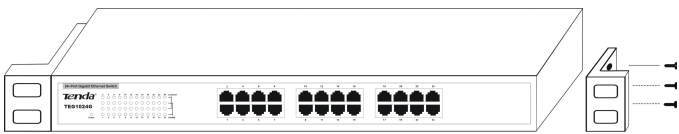


Install the foot pads to the bottom of the Switch

2. Install the Switch to the standard 19-inch rack.

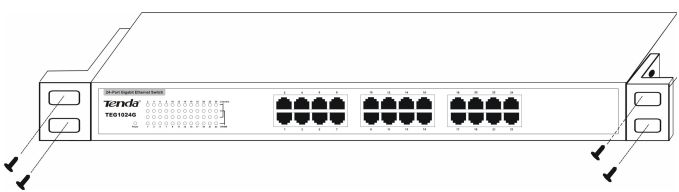
Please follow the steps below:

- Make sure the rack is stable.
- Fix the 2 delivery-attached mounting ears on both sides of the Switch with the matched screws.



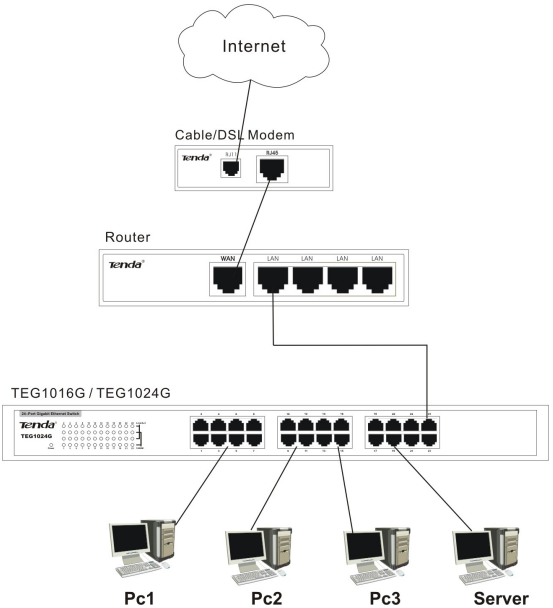
Install the L-shaped brackets to the Switch

- Mount the Switch into one layer of the rack, and then use screws provided to mount the Switch in the rack.



2.3 Application example

With 16/24 RJ-45 ports, TEG1016G/TEG1024G switch can be connected to devices such as PCs and notebook computers.



The common method to access the internet

3. Product Specification

Features	
Standard	IEEE802.3 IEEE802.3u IEEE802.3ab IEEE802.3x
Protocol	CSMA/CD Ethernet
Data Transmission Rate	Gigabit Ethernet: 2000Mbps (Full-duplex) Fast Ethernet: 100Mbps (Half-duplex) 200Mbps (Full-duplex)
Topological Structure	Star
Network Cables	10Base-T:Cat.3 UTP or above(100m) 100Base-TX: Cat.5 UTP /STP(100m) 1000Base-T: Cat.5e UTP/STP or above(100m)
Port Quantity	16/24 10/100/1000Mbps RJ-45 ports
Performance	
Transmission Method	store-and-forward
MAC Address Table	8K
Packet Filtering/ Forwarding Rate	14880pps (10Mbps) per port
	148800pps (100Mbps) per port
	1488095pps (1000Mbps) per port
MAC Address Learning	Auto-learning, auto-aging.
Backplane Bandwidth	32Gbps/48Gbps
Physical and Environmental	
AC Input Range	100-240V- 0.6A(Max) 50/60Hz
Power Consumption	25W/30W

Operating Temperature	0℃-40℃
Storage Temperature	-40℃-70℃
Storage Humidity	10%～90%RH (non- condensing)
Operating Humidity	5%～90%RH (non- condensing)
Dissipation method	fan

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

If you still have some problems, please contact our customer service

- Technical Support
  - Toll Free: 400-6622-666 (For Mainland China Only)
  - Toll Free: 1-800-570-5892 (For USA only)
  - Tel: +86 (755) 2344 2820
  - Skype: tendasz
  - MSN: tendasz@hotmail.com
  - Email: support@tenda.com.cn
- Headquarter Shenzhen:
  - Add: Tenda Industrial Zone,No.34-1 Shilong Road, ShiyanTown, Baoan District, Shenzhen, China. 518108
  - Tel:(86)755-27657180
  - Fax: (86)755-27657178
  - Email: sales@tenda.com.cn
  - Technical Support: support@tenda.com.cn
  - Tekninen tuki: tuki@microdata.fi