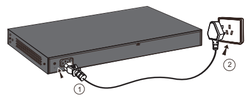

Fig.3.3.3 Power Connection Schematic Diagram

Connection to Grounding Wire

Ground symbol

Safety grounding must be ensured before power on.
The switch is left with an outer housing protective post on the rear panel of the switch housing, marked with the ground symbol. This Outer housing protection ground should be connected to the machine cabinet on the ground column .

The steps are as follows:
Step 1: Unscrew the retaining nut of ground column from the rear plate switch.
Step 2 : Put one end of the ground wire on the ground column of the rear plate .
Step 3 : Put on and tighten the retaining nut .
Step 4: Connect the other end of the ground wire to the ground side.

Note:
Ground wire intercept surface root according to the largest electrical flow can pass the negative load confirmed .
Do not use bare wires without cable jacket.
The electrical resistance to the connecting ground should be less than 1Ω .

In order to avoid the damage of the equipment caused by various external factors, it is recommended to connect the equipment to the grounding pole. See Fig. 3.3.4.

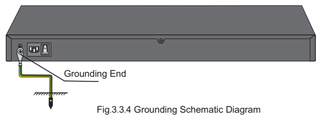

Fig.3.3.4 Grounding Schematic Diagram

Note: this product does not provide grounding pole and grounding cable, if necessary, please buy by yourself.

The inspection after installation

Please check up the following items after installation:
1. Enough space around the switch for heat dissipation and smooth ventilation or not.
2. The supplying power of the power socket conformed to the specification of the switch.
3. The power supply, switch, frame and other equipments are properly grounded;

Accessories:

Open the packing box and take out the articles. Please check packing list and make sure all articles included without damage. Please contact us in time if short or damage found!

※ 1*Switch
※ 1*Power Cable
※ 1*Power Adapter
※ 1*User Manual
※ 2*Machine Hangers
※ 4*Rubber Gasket
※ 6*Screws

Note: The rack-mounted switch is equipped with built-in power that power adapter is unneccessory, and the desktop models have no rack-mounting accessories (rubber gasket, hangers and screws).

luminetworx™

www.luminetworx.com • 702-602-7719

24+4 Ports Managed Ethernet POE Switch

Install Manual

24GE POE+4COMBO Managed Switch
Model : LVES-24UPOE

Introduction

Independently and professionally researched and designed for requirements on construction of high-performance gigabit network, hasivo full gigabit managed PoE switch provides a comprehensive security protection system, perfect QoS strategy and rich VLAN function. The switch is convenient to manage and maintain, which is suitable for core layer in small and medium-sized enterprises, community and schools.

Features

- Support Port/MAC/IP/VLAN ID quadrel intelligent scanning binding.
- CPU:500HZ;Cache:4M;Flash:128M;RAM:128M.
- Rich VLAN function: IEEE 802.1Q, Voice VLAN and etc.
- Comprehensive security protection system(keep network stable operation).
- Rich QoS strategy and ACL access control function(achieve efficient and integrated operation).
- Support Voice VLAN, can configure QoS for voice data.
- Port convergence and multiple spanning tree protocol to promote link redundancy backup ability.
- Fast spanning tree protocol: STP, RSTP, MSTP; Support EPPS, EAPS ring network protocol.
- Management modes: CLI, Web, SNMP, SSH and etc.
- Visualization of PoE management interface and standardization of PoE duty management
- Multiple timing restart functions.
- Provide network diagnosis, cable detection, system log and convenient management.

Front Panel Description

9.24*10/100/1000M PoE port+4*COMBO, 19U, Rackmount

PWR indicator: ON(the switch connected to power)

SYS indicator: CPU status indicator(flickers on time in one second after initialization)

PoE indicator: ON(supply power for connected devices at corresponding ports)

Giga/1000M indicator: ON(corresponding port transmission rate is 1000M)

Link indicator: ON(data transmission at corresponding ports)

Back Panel Description

5.19U chassis

Power adapter interface: power supplying interface(insert the power adapter coming with the product into the port, supporting AC 100-240VAC,50/60Hz input).

Single-phase and three wire socket: power input socket for the switch(insert power cable coming with the product into the port, supporting AC 100-240V,50/60Hz input).

Grounding: adopt special grounding cable to connect

Attentions

■ Keep the status of power-off during installation, and wear anti-static wrist to ensure good contact between anti-static wrist and skin to avoid the hidden danger.

To avoid equipment damage and personal injury caused by improper use, please follow the precaution as below:

■ The switch can only work normally under the correct power supply. Please confirm that the power supply voltage is consistent with the voltage marked on the switch.
■ Before switch on, please make sure that it will not cause overload of the power circuit, so as not to affect the normal operation of the switch or even unnecessary damage.
■ In order to avoid the danger of electric shock, do not open the shell up when the switch works, even in the case of no live current, do not open.
■ Before cleaning the switch, pull out the power plug. Do not wipe it by using wet fabrics or liquid.
■ Install device in the rack-mount regularly from top to bottom, incase of over-load installation.
■ Don't stack other heavy objects on the surface of the switch to avoid accidents.

Installation to rack

1.Check up the grounding and stability of the frame.
2.Install the two L-brackets in the accessory on each side of the switch panel and secure with screws in the accessory, see Fig.3.1.1.
3.Put the switch in the appropriate position on the frame and support it by the bracket.
4.Secure the L-bracket on the fixed guide groove on each side of the frame by screws to stably and horizontally install the switch on the frame, see Fig.3.1.2.

Fig.3.1.1 Installation Schematic diagram

Fig.3.1.2 Installation Schematic diagram

Installation to desktop

The switch is commonly put on the clean desk when there is no 19U standard cabinet. Then please do and follow the convenient operation below:

1. Make sure the platform is big enough, stable, hard and can bear the weight of switch and accessories.
2. Put the switch on the platform with its bottom upward.
3. Remove the rubber paper on the 4 footpads one by one and stick them in the circular groove at the bottom corner of the chassis.
4. Turn the switch upside down and put it on the desk stable.

Connection of the Product

1.Connection process between the switch and the end-to-end ethernet port is as following:

Connect one end of the network cable to the switch and the other end to the end-to-end device, as shown in figure 3.2.1

Fig.3.2.1 RJ45 Port Connection Schematic Diagram

2.The process of installing a fiber module on a switch is as follows:

Grab the fiber module from the side and insert it smoothly along the switch SFP port slot until the fiber module is in close contact with the switch, see Fig.3.2.2

Fig.3.2.2 SFP Connection Schematic Diagram

Attention: please pay attention to the following items to avoid machine damage and personal injury caused by improper operation:

■ Excessive bending of optical fiber is not allowed, and its curvature radius should not be less than 10cm;
■ Ensure the cleanliness of the end face of the fiber;
■ Do not look directly at the optical fiber connector with your eyes, or you may damage your eyes.

Tips:It is recommended to adopt the straight line -568B international standard connection method, as shown in Fig.3.2.3.

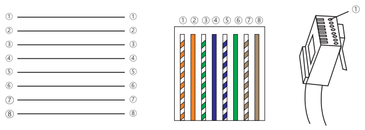

Fig.3.2.3 Cable Practice Schematic Diagram

Power and Grounding Cable Connection

Power Socket Specification

The switch adopts single-phase three-pin power socket, the middle one is the G wire, the left one is the N wire, and the right one is the L wire. Please check before operation.

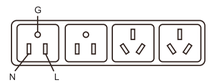

Fig.3.3.1 Single-phase Three-pin Power Socket

Connection of Power Cable

1.Check up that the power supply is consistent with the marked requirements by the switch or not;
2.Insert the power adapter output end into the DC port on the switch, and then be connected to AC100~240V,50~60HZ,see Fig.3.3.2.
3.Power adapter is not needed in the built-in models, and then be connected to AC 100~240V, 50~60HZ;see Fig.3.3.3.