

UNIPOE | PoE Networking Solution

User's Manual
用户手册

PM3020FSNL V3 PoE Switch
PM3028FSNL V3 PoE Switch



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UNIPOE Information Technology Co., Ltd.

Package Contents

Check the following contents of your package:

- PoE Switch x 1
- User's Manual x 1
- Power Cord x 1
- Accessories(hanging ears*2, Rubber Feet*4, screw*8)

If any part is lost and damaged, please contact your local agent immediately.

1. Introduction

Thank you for choosing UNIPOE PoE Switch. The PM3020FSNL and PM28FNSNL Provides 16(24)-10/100Mbps PoE RJ45 Port have 2-Gigabit RJ45 port and 2-Gigabit SFP Slot. Its PoE ports can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PD). The electrical power is transmitted along with data in one single cable allowing you to expand your network where there are no power lines or outlets, where you wish to fix devices such as AP, IP Cameras or IP Phones, etc.

The LCD not only can display the PoE work status, accurate judgment port of load, can also help customer and engineer timely discover and solve the network failure,improve work efficiency and quality.

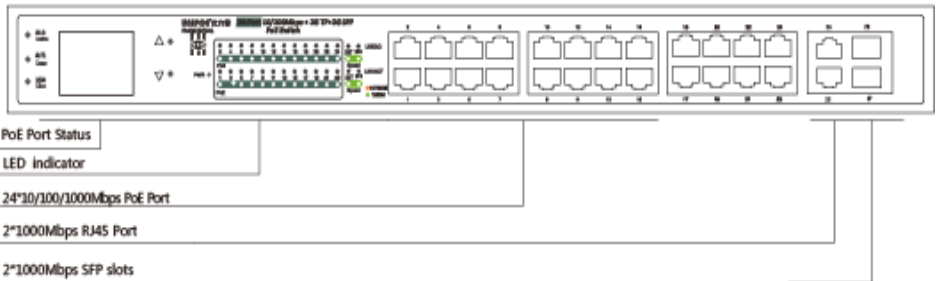
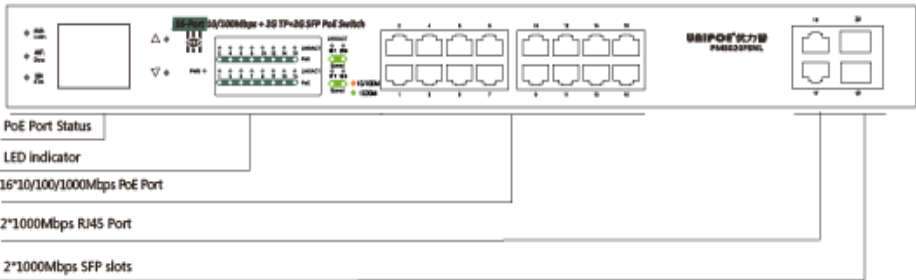
Port Feature

Model	10/100Mbps RJ45 Port	Gigabit RJ45 Port	Gigabit SFP Port	LCD Display	PSE Port
PM3020FSNL V3	Port1~16	Port17~18	Port19~20	Support	Port1~16
PM3028FSNL V3	Port1~24	Port25~26	Port27~28		Port1~24

2. Hardware Description

2.1 Front Panel

The Front Panel of the PoE Ethernet Switch Consists of Ethernet Ports. The LCD Display and LED indicators are also located on the panel

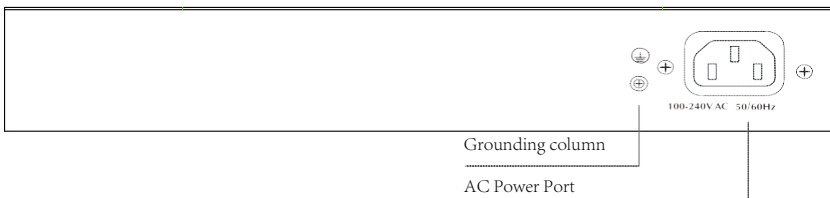


LED indicator

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the switch has power.
LNK/ACT	Green	Off: No device is connected to the corresponding port. Light: Indicates the link through that port is successfully established at 10/100Mbps. Blink: Indicates that the Switch is actively sending or receiving data over that port.
PoE	Orange	Off: No PoE powered device (PD) connected. Light: There is a PoE PD connected to be port, which supply power successfully. Blink: Indicates port abnormal power supply.
Speed	Green	Off: No connection or 10Mbps Light: Indicates the link through established at 1000Mbps.
	Orange	Off: No connection or 10Mbps Light: Indicates the link through established at 100Mbps.

Rear Panel

The rear panel of the PoE Switch indicates an AC inlet power socket, which accepts input power from 100 to 240V AC, 50/60HZ.



LCD Features

The PoE Switch with the function of the LCD display and PoE. The LCD can display the working condition of PoE port not only, still can accurately show the state of each port, such as: Output power, Overload, Short circuit, Light load, Low voltage, Over voltage, High temperature, and so on...

SWITCH PORT INFO											
01	OLP	---	M	631M	08	13.4W	---	M	920M		
02	8.4W	---	M	921M	09	18.9W	856M	856M			
03	ULP	---	M	---	10	---	M	238M	238M		
04	SCP	125M	---	M	11	OFF	---	M	---		
05	2.2W	---	M	---	12	23.3W	323M	323M			
06	23.7W	---	M	---	13	5.8W	983M	983M			
07	16.8W	---	M	---	14	7.3W	223M	223M			
PB:300W			TP:120.0W			PD:0			Norm		

Switch port information												
01	---	---	---	---	08	---	---	---	---			
02	WARNING!											
03	Voltage is high.											
04	All ports off.											
05	---	---	---	---	---	---	---	---	---			
06	---	---	---	---	---	---	---	---	---			
07	---	---	---	---	14	---	---	---	---			
PB:300W			TP:0.0W			PD:0			Norm			

Switch port information												
01	---	---	---	---	08	---	---	---	---			
02	WARNING!											
03	chip is too hot!											
04	All ports off.											
05	---	---	---	---	---	---	---	---	---			
06	---	---	---	---	---	---	---	---	---			
07	---	---	---	---	14	---	---	---	---			
PB:300W			TP:0.0W			PD:0			Norm			

Switch port information												
01	---	---	---	---	08	---	---	---	---			
02	WARNING!											
03	Voltage is low.											
04	All ports off.											
05	---	---	---	---	---	---	---	---	---			
06	---	---	---	---	---	---	---	---	---			
07	---	---	---	---	14	---	---	---	---			
PB:300W			TP:0.0W			PD:0			Norm			

Switch port information												
01	---	---	---	---	08	---	---	---	---			
02	WARNING!											
03	PSE is failure.											
04	Restarting..											
05	---	---	---	---	---	---	---	---	---			
06	---	---	---	---	---	---	---	---	---			
07	---	---	---	---	14	---	---	---	---			
PB:300W			TP:0.0W			PD:0			Norm			

Not only such visible on the basis of three generations in the second generation increases the color logo, according to the menu button, switch mode, bandwidth display and warning, PD type, PSE power fine-tuning and priority, PoE port switch control, LCD switch. Enhance the LCD viewing angles, smart fan control, language selection and the function of the factory Settings, in turn, as shown in the figure below: [See the operation instructions of the screen concretely.](#)



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Main Menu	
01	Switch Mode
02	Switch Bandwidth
03	PD Type
04	PD Alive
05	PSE Power Fine
06	PSE Port Priority
07	PSE Port Enable
08	PSE Port Power

Main Menu	
06	PSE power Priority
07	PSE Port Enable
08	PSE Port Power
09	LCD ON/Off
10	Fan Control
11	Language
12	Default Setting
13	About

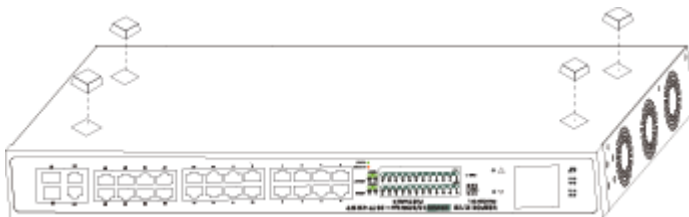
3. Installation the Switch

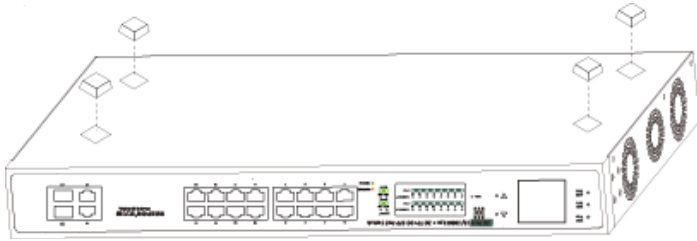
This part describes how to install your Ethernet Switch and make connections to it. Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- Before cleaning the switch, unplug the power plug of the switch first. Do not clean the switch with wet cloth or liquid;
- Do not place the switch near water or any damp area. Prevent water or moisture from entering the switch chassis;
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall;
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction;
- Make sure that the operating voltage is the same one labeled on the switch;
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.

Desktop Installation

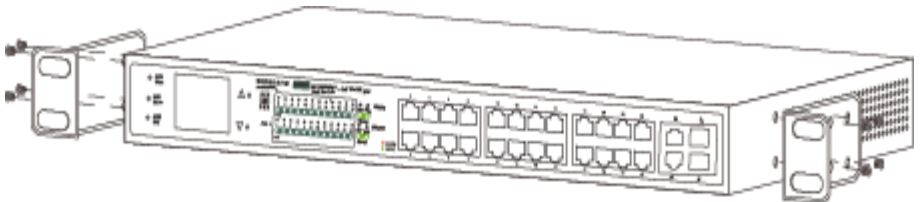
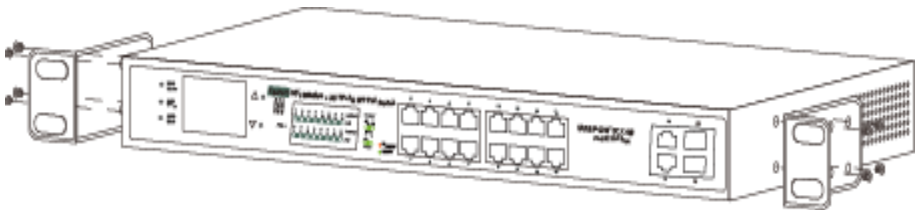
Install the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.

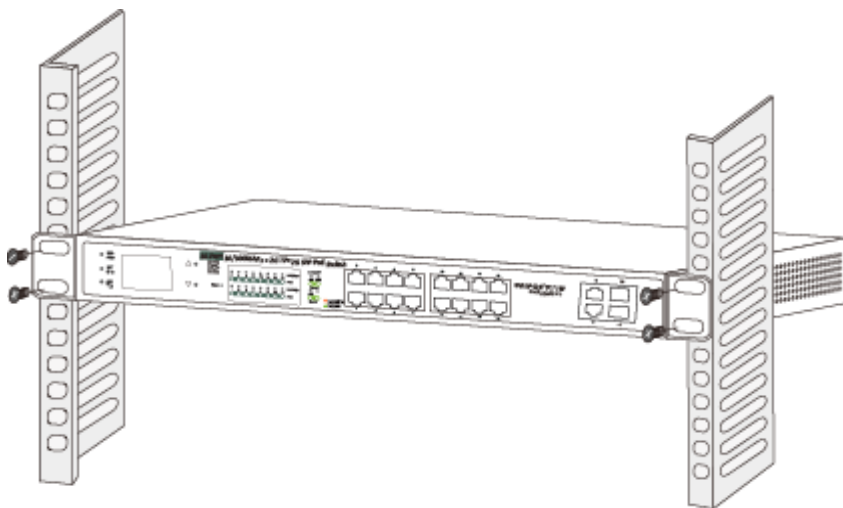




3.2. Rackmountable Installation

The switch is rack-mountable and can be installed on an EIA-19 inch equipment rack. To do this, first, please install the mounting brackets on the switch's side panels (one on each side), secure them with the included screws, and then use the screws provided with the equipment rack to mount the switch on the 19 inch rack.





3.3 Turn on the switch

Please plug the power supply into the switch, the internal power system of the switch can Auto-regulate the working power according to the actual input power. When the switch is power on, the power indicator will be light on the front panel of the switch shines.

Note: Please confirm the voltage is correct before power on, otherwise the switch will be damaged.

(There is a power supply socket on the back panel of the PoE Ethernet switch. The power input is: 100V-240Vac, 50/60Hz.)

Specifications

Model	PM3020FSNL V3	PM3028FSNL V3
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at	
Network - Media(Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e cable (≤100m) 1000BASE-X: MMF or SMF SFP module(Optional)	
LCD Display	Support	
MAC Address Table	8K, Auto-learning, Auto-aging	
Transfer mode	Store-and-Forward	
Frame Forward Rate	10Base-T: 14881pps/Port 100Base-TX: 148810pps/Port 1000Base-T/X: 1488095pps/Port	
Switching Capacity	11.2G	12.8G
Dimensions (L*W*H)	440*232*45 mm	
Fan	Fan	
Power Input	AC: 100~240V, 50/60Hz	
Power output	55V/5.6A, 55V/7.2A(Optional)	
PoE Port	Port1~16	Port1~24
PoE Power on RJ45	port: Mode A 1/2(+),3/6(-)	
PoE Power Output	Voltage: 55V DC Power: 32W(Max)	
PoE Power Budget	300W/380W(According to the power)	
PoE Power total	330W/420W	
Temperature	Operating Temperature: -10°C ~ 60 °C (32 °F ~104°F) Storage Temperature: -40 °C ~ 70 °C (-40 °F ~158°F)	
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing	

包装清单

小心打开包装盒，包装盒内应有以下物件：

- PoE 交换机一台
- 用户手册一本
- 电源线一根
- 安装附件（挂耳*2、螺钉*8、脚垫*4）

如果发现物件损坏或者短缺的情况，请及时和当地经销商联系。

一、产品简介

感谢您购买 UNIPOE PoE Switch, PM3020FSNL 和 PM3028FSNL 提供 16 (24) 个 10/100Mbps 自适应 RJ45 端口，2 个 10/100/1000Mbps RJ45 电口和 2 个 1000Mbps SFP 光纤插槽。所有 RJ45 端口均支持线速转发与自动翻转功能，无需配置，即插即用。可视 PoE 能显示 PoE 工作状态，对端口工作情况及负载情况进行精确判断，以帮助客户及布线工程师及时发现和解决问题，排除网络故障，提高工作效率和工程质量。

PoE 交换机 1~16 (1~24) 端口支持 PoE 功能，能自动检测符合 IEEE 802.3at/af 标准的 PD 设备，不需要担心会损坏非标 POE 设备或普通设备，每个 PoE 端口提供最大 32W 的电力。

POE 交换机是在传输数据信号的同时，还能对一些基于 IP 的终端（无线接入点 AP、VoIP 电话及基于 IP 的监控摄像机）提供直流供电。使用一根标准的 CAT5 网线，就能为无线 AP 和 IP 摄像机提供电力。以太网供电（PoE）优化了的受电端设备（PD）的安装和电源管理，为许多带 PoE 功能的网络设备缩减了安装的时间和成本。

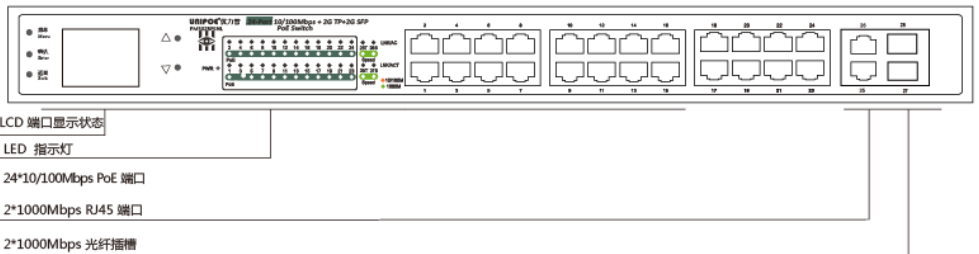
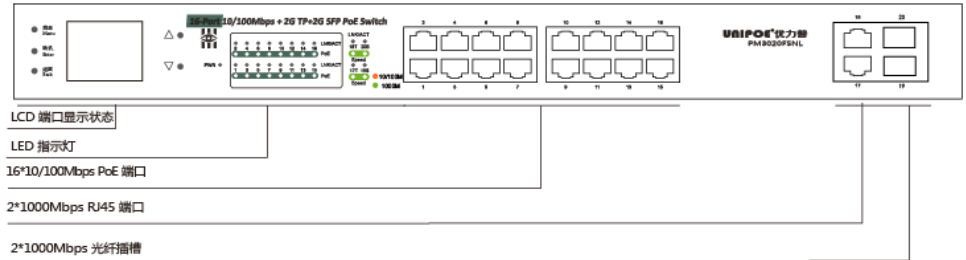
端口信息：

产品名	百兆 RJ45 端口	千兆 RJ45 端口	千兆 SFP 端口	可视 PoE 功能	供电端口
PM3020FSNL V3	Port1~16	Port17~18	Port19~20	支持	Port1~16
PM3028FSNL V3	Port1~24	Port25~26	Port27~28		Port1~24

二、外观描述

前面板

下列 PoE 交换机前面板示意图：



LED 指示灯

指示灯	颜色	描述
PWR	绿色	灭： 交换机未通电 常亮： 交换机已通电
LNK/ACT	绿色	灭： 没有连接网络设备 常亮： 连接到 10/100Mbps 网络设备 闪烁： 正在传输数据
PoE	橙色	灭： PoE 端口没有供电 常亮： PoE 端口正在供电 闪烁： PoE 端口供电异常
Speed	绿色	灭： 没有连接或 10Mbps 常亮： 连接到 1000Mbps 设备
	橙色	灭： 没有连接或 10Mbps 常亮： 连接到 100Mbps 设备

后面板

PoE 交换机的后面板示意图:一个交流电源接口，电源输入范围为 100-240V AC, 50/60HZ。一个接地螺丝 孔。



可视 PoE 功能

PM3020FNSL V3 和 PM3028FNSL V3 是非管理可视 PoE 交换机，LCD 屏能显示 PoE 端口的工作状况，对每个端口的输出功率、过载、短路、轻载、低压、过压、芯片过温等状态作出精确显示，让您对 PoE 供电情况“芯”中有数。



不仅如此可视三代在二代的基础上增加了彩屏 logo 显示，菜单按钮，交换机模式，带宽显示及预警，PD 类型，PSE 功率微调及优先级，PoE 端口开关控制，LCD 开关.增强了 LCD 的可视角度，智能风扇控制，，语言选择及出厂设置的功能 依次如下图所示：[具体请查看屏的操作手册](#)

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三，安装设备

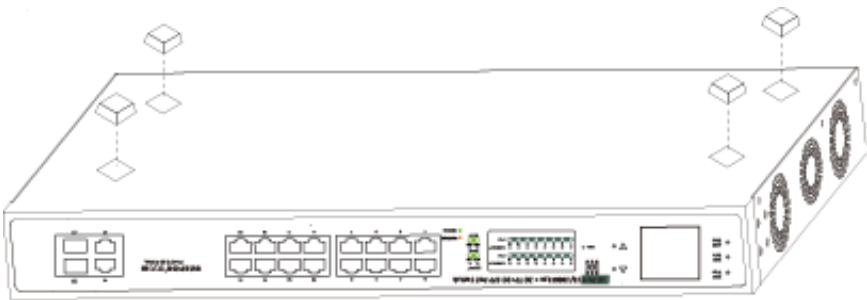
注意事项

为避免使用不当造成设备损坏及对人身伤害，请遵从以下的注意事项：

- 在清洁交换机前，应先将交换机电源插头拔出。不要用湿润的布料擦拭交换机，不可用液体清洗交换机；
- 请不要将交换机放在水边或潮湿的地方，并防止水或湿气进入交换机机壳；
- 请不要将交换机放在不稳定的箱子或桌子上，万一跌落，会对交换机造成严重损害；
- 应保持室内通风良好并保持交换机通气孔畅通；
- 交换机要在正确的电压下才能正常工作，请确认工作电压同交换机所标示的电压相符；
- 为减少受电击的危险，在交换机工作时不要打开外壳，即使在不带电的情况下，也不要随意打开交换机机壳。

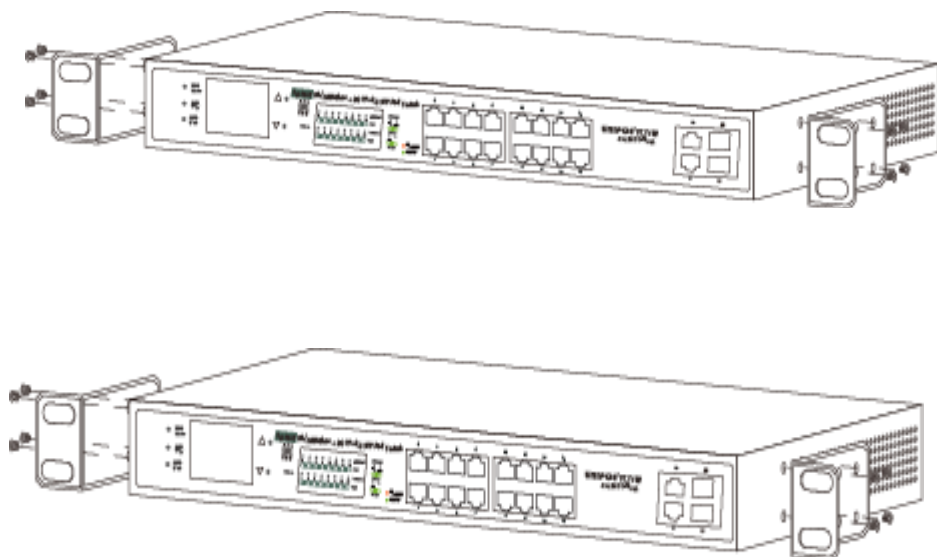
3.1 桌面安装

将交换机的底部朝上放置于足够大且稳定的桌面上； 撕掉随机附带的脚垫表面的粘贴纸，将脚垫粘贴到交换机壳底部的凹槽内以防外部振动； 小心将交换机正置，放在工作台上。



3.2 机架式 安装

检查 EIA-19inch 机柜的接地与稳定性，首先，用螺钉将安装挂耳固定在交换机前面板两侧将交换机放置在机柜的一个托架上，沿机柜导槽移动交换机至合适位置，然后，用螺钉将安装挂耳固定在机柜两端的固定导槽上，确保交换机稳定地安装在机柜槽位的托架上。设备的挂耳并不用来承重，它只起固定作用。安装设备于机柜时，设备机箱的下边要有托架（固定在机柜上）来支撑设备。



3.3 开启交换机

接上电源线，插上插头，接通电源。开机以后，交换机将自动进行初始化，所有的端口指示灯全亮后熄灭，表示系统复位成功。电源 LED 指示灯一直常亮。

注意：上电前请确认电压是否正确，否则将损坏设备。（电源输入范围 **100-240V AC 50/60Hz**）。



技术规格

产品名	PM3020FNSNL V3	PM3026FNSNL V3
标准	IEEE802.3、IEEE802.3u、IEEE802.3z、IEEE802.3ab、IEEE802.3az、IEEE802.3x IEEE802.3af、IEEE802.3at	
网络介质（线缆）	10BASE-T: Cat 3、4、5 非屏蔽类双绞线(≤100m) 100BASE-TX: Cat 5 及以上非屏蔽类双绞线(≤100m) 1000BASE-T: Cat 5e 及以上非屏蔽类双绞线(≤100m) 1000Base-X: MMF or SMF SFP 模块(可选)	
PoE 可视功能	LCD 实时显示 PoE 活动状态	
MAC 地址表	8K, 自动学习, 自动更新	
传输模式	存储转发	
包转发速率	10Base-T: 14881pps/端口 100Base-TX: 148810pps/端口 1000Base-T/X: 1488095pps/端口	
背板带宽	11.2G	12.8G
尺寸（长*宽*高）	440*232*45 mm	
风扇	带风扇	
电源输入	AC: 100-240V, 50/60Hz	
电源输出	DC: 55V/5.6A, 55V/7.2A（可选）	
PoE 端口	Port1~Port16	Port1~Port24
PoE 供电线对	端口: 模式 A (正极 1/2 负极 3/6)	
PoE 端口输出	电压: 55V DC 功率: 32W (最大)	
PoE 总功率	300W/380W	
电源总功率	330W/420W	
工作温度	-10°C ~ 60 °C	
存储温度	-40 °C ~ 70 °C	
工作湿度	10% ~ 90% 无凝结	
存储湿度	5% ~ 90% 无凝结	