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客 户 料 号(PART NO)：	
客 户 品 名 (PRODUCT NAME)：	
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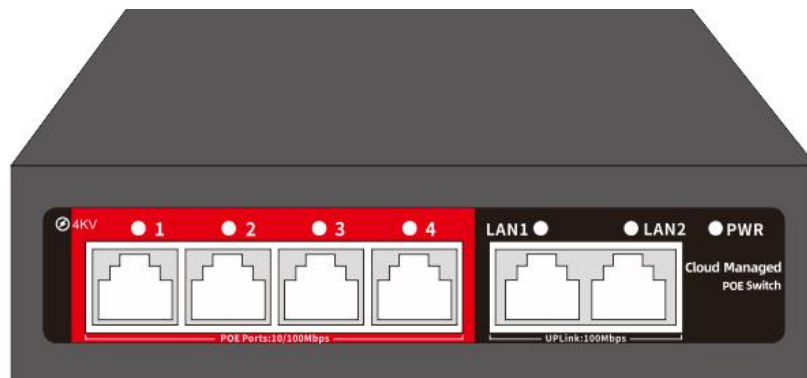Community, Baolong Street, Longgang District, Shenzhen

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Version	Date	Modify content	Executor
A /0	2024-05-27	First edition, Establish new specification document based on samples	蓝鲜梅

Catalog

Cloud Management Series POE Switch Specification (PS204D)

1. Product Introduction：

This product is a 100 megabit Ethernet POE-powered switch independently developed by our company. It provides 6 RJ45 ports that are 10/100M adaptive, and ports 1 to 4 have POE power supply function, which can be used as an Ethernet-powered device. All power supply ports can automatically detect and identify powered devices that comply with the IEEE 802.3af/at standard. This model supports remote management and can remotely manage the switch through the WeChat applet "Cloud Network Management" (the international version can be remotely managed through a mobile APP).

2. Functional Features：

- Follow the IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards;
- Support the 802.3af/at standard protocol, with intelligent detection for power supply, and will not burn out non-powered devices;
- Over-current, overload, and short circuit protection, to eliminate hidden dangers and ensure power supply safety;
- Support common mode and differential mode lightning protection;
- Cloud network management: Visual remote management, on-site problems, remote resolution;
- Provide 6 10/100M POE RJ45 ports, among which ports 1 to ports 4 support POE power supply.
- All ports support the function of automatic flipping (Auto MDI/MDIX);
- Support IEEE802.3X full-duplex flow control and Back-pressure half-duplex flow control;
- Support the independent learning and aging of MAC addresses;
- All-metal shell, and the whole machine is fully loaded with 52W;
- plug and play;

3. Indicator Definition：

Indicator：

Indicator light	Definition	Description
PWR	Power Indicator	Switch power indicator light is lit: The device has been powered on.
Port LED	Link/ACT	If the port indicator is steady on, the connection is normal. If the port indicator is blinking, the data is being transferred

4. General Specs

Item	Data
Port Composition	4 100Mbps POE RJ45 ports + 2 100Mbps cascading RJ45 ports
Backplane bandwidth	1.2G
MAC address	2K
Packet forwarding rate@64byte (throughput)	0.893Mpps
power supply	AC input 100-250V, standard configuration 52W power supply
Network media and transmission distance	100Base-TX: 2 to Cat5 or higher UTP/STP(≤100m) 10Base-TX: 2 to Cat5e or higher UTP/STP(≤250m)

5. Software Specifications

Item	Descriptions
Basic functions	Follow the IEEE 802.3 Ethernet and IEEE802.3u Fast Ethernet protocol standards Compatible with powered devices (PD) that conform to the IEEE 802.3af/at standard. Compatible with certified non-standard powered devices (PD). Store-and-forward The independent learning and aging of MAC addresses.

Item	Descriptions
	IEEE802.3X full-duplex flow control and Back-pressure half-duplex flow control
Ethernet Protocols And Standards	IIEEE 802.3 Ethernet Media Access Control Protocol IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3af To achieve the power supply of Ethernet devices through Ethernet data lines or devices IEEE 802.3at To achieve high-power power supply of Ethernet devices through Ethernet data lines or devices IEEE 802.3x Traffic control
Data Transmission Rate	Ethernet 10Mbps half-duplex, 20Mbps full-duplex. Fast Ethernet 100Mbps half-duplex, 200Mbps full-duplex.
Management Mode	Local network management: Direct web management access through IP (new PC client management added). Remote network management: Through WeChat applet and mobile APP (international version), it supports remote viewing of port status, marking remarks for ports, and enabling super-distance and port isolation. Supports SNMP (read-only community "public").

6. POE Performance

Item	Data
IEEE802.3af	Supported
IEEE802.3at	Supported
The Maximum Power Output Of The Port	30W
Over-current Protection	Supported
Over-voltage Protection	Supported
Short Circuit Protection	Supported
Sequential startup (to avoid excessive instantaneous current).	Supported
High power PD soft start.	Supported

7. Environmental Requirements

Environment	Data
Temperature	Operating temperature: 0℃ ~ 40℃ Storage temperature: -40℃ ~ 70℃
Humidity	Operating humidity: 10% ~ 90% RH(Relative Humidity) non-condensing Storage humidity: 5% ~ 90% RH(Relative Humidity) non-condensing
Altitude	Operating altitude: Maximum 6500 feet (2000 meters) Storage altitude: Maximum 6500 feet (2000 meters)

8. Product Weight

Category	Weight
Naked Machine (Without Packaging)	Approximately 450 g(Sample reference)
The Entire Box Weight (40 PCS)	Approximately 22kg

9. Lightning Surge Protection（10/700us）

Performance	Data
Differential Mode	4KV
Common Mode	4KV

10. Dimensions

Category	Data
Naked Machine	125mm*115mm*34mm
Whole Machine	155mm*170mm*43mm
Whole Box(40PCS/carton)	470mm*360mm*330mm

11. Packing、Transportation、Storage

Packing Contents	Data
Filled Protection	There is up and down pearl cotton isolation inside the

	packaging to comprehensively wrap and protect.
Packing Box	Premium cow card cardboard box, sized 470mm*360mm*330mm
Packing Number	40 PCS(carton)
2D Code	The packaging box and the equipment body should have a unique equipment SN(Sequence Number) number.
Others	The packing box should have labels indicating the product model codes and quantity.

Transport Requirement：Domestic designated express logistics can transport the whole box, and it is suitable for transportation by car, ship and plane.During transportation,it should be covered, sun-proof, and loaded and unloaded in a civilized manner.

Store Requirement：

Index	Requirements
Humidity Environment	5% to 90% RH（relative humidity） without condensation
Temperature Environment	-40 ℃ to 70 ℃, considering in combination with the humidity, the most reasonable state is recommended to be the room temperature condition
Stacking Limit	In the complete packaging state, the maximum upper limit is 4 layers.
Points For Attention	Storage warehouses should be clean, ventilated, free of corrosive gases, free of flammable, explosive and other corrosive chemicals, and away from heat sources, strong mechanical vibration sources.
Storage Cycle	According to the above requirements, reasonable storage can last for one year, and it is recommended to re-examine and use again after two years.