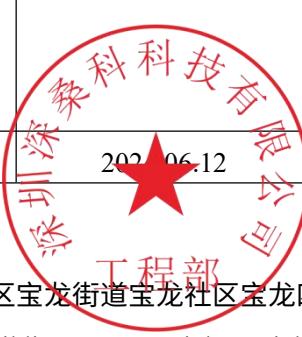


Approval specifications

客户名称 (CUSTOMER) :	
客户料号 (PART NO.) :	
客户品名 (DESCRIPTION) :	
产品型号 (PRODUCT TYPE) :	GPS424
内部版本 (VERSION) :	V3.0
文件版本 (FILE VERSION) :	A/0

承认签章后请回传

Please return to us one copy of “SPECIFICATION FOR APPROVAL”with your
approved signatures

承认书 APPROVED SIGNATURES					
内部承认 (APPROVAL)			客户承认(CUSTOMER APPROVAL)		
工程 ENGINEER	审核 CHECKED BY	批准 APPROVAL BY	工程 ENGINEER	审核 CHECKED BY	批准 APPROVAL BY
陈平	黃志鹏	胡晓			
盖 章 签 署 (CHOP&SIGNATURES)			盖 章 签 署 (CHOP&SIGNATURES)		
日期 (DATE)	2020-06-12		日期 (DATE)		

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Community, Baolong Street, Longgang District, Shenzhen

Archive update records:

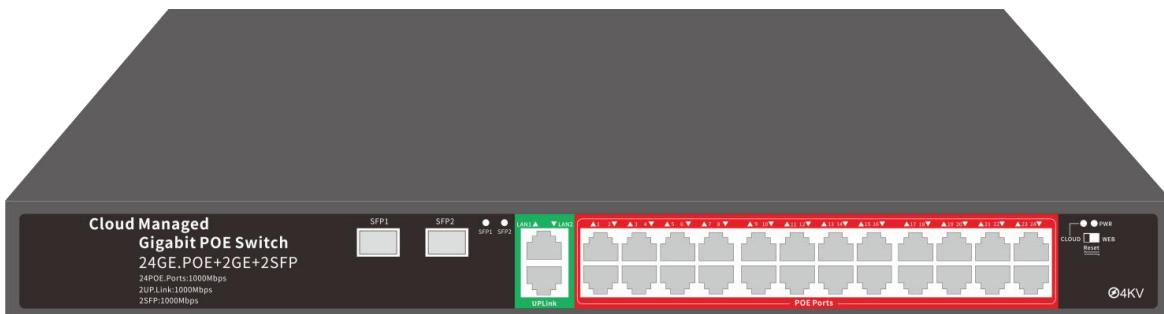
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Specification Document Of POE Switch Of Cloud Network Management Series (GPS424)

1. Product Introduction:

This product is an Ethernet POE-powered switch of the Cloud Network Management series independently developed by our company. It provides 24 1000Mbps adaptive POE-powered RJ45 ports, 2 Upstream 1000Mbps adaptive RJ45 interfaces and 2 1000Mbps SFP interfaces. It 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. It supports remote mobile phone access for monitoring the operating status of the switch and the management of various network functions. The switch can be remotely managed through the APP "Amitres IOT", and the switch ports can be remotely viewed and managed. It also supports management through web page login.



2. Features:

- Comply with IEEE802.3 Ethernet and IEEE802.3u Fast Ethernet protocol standard
- Supports 802.3af/at standard protocol, intelligently detects power supply, and does not burn out non-powered equipment
- Support App "Amitres IOT" to remotely manage switch, support local web management;
- Support 802.1Q VLAN, MTU-VLAN, Port VLAN, suitable for a variety of networking business needs;
- Second gear pull code: WEB + CLOUD (domestic factory default CLOUD, overseas default WEB);
- Overcurrent, overload and short-circuit protection to eliminate hidden dangers and ensure power supply safety; Support common mode differential mode lightning protection
- Support spanning tree protocols: STP (IEEE802.1d), RSTP (IEEE802.1w)
- Cloud network management: visual remote management, on-site problems, remote resolution
- Provides 24*1000MPOE ports, 2*1000M RJ45 ports and 2*1000M SFP ports
- All ports support Auto MDI/MDI-X function
- Supports IEEE802.3X full-duplex flow control and Backpressure half-duplex flow control
- Supports autonomous learning and aging of MAC address
- Full metal casing, power output 360W
- plug and play

3. Definition Of Indicator Light:



Indicator Light:

Indicator Light	Definition	Functional Description
Functional Indicator	PWR	Switch power status indicator, light up to indicate that the device is started
	CLOUD	ON: Remote cloud management function is turned on
Port Indicator	Link/ACT	ON: the port link is normal; Flashing: data transmission is in progress

Gear Description

Gear	Definition	Functional Description
CLOUD	Remote Management Mode	Enable local WEB management and remote APP management functions
WEB	Local Management Mode	WEB local management mode
RESET		The switch is at WEB, within 1 second, unplug to CLOUD and then unplug back to WEB, switch restart and restore factory settings

4. Basic Specification

Item	Data
Port	24 1000Mbps POE.RJ45 ports + 2 1000Mbps Cascading RJ45 ports+2 1000Mbps SFP ports
Backplane bandwidth	56G
MAC Address	8K
Packet forwarding rate@64byte (throughput)	41.664Mpps
Power supply	AC Input 100-250V, Standard configuration 360W Power Supply
Network media and transmission distance	1000Base-T: 4 to Cat5e or higher UTP/STP(\leq 100m) 100Base-TX: 2 to Cat5 or higher UTP/STP(\leq 100m) 10Base-TX: 2 to Cat5e or higher UTP/STP(\leq 250m)
Line Sequence Of Power Supply	12/36、45/78 all line sequence

5. Software Specification

Item	Data
Basic functions	Comply with IEEE 802.3 Ethernet IEEE802.3u Fast Ethernet protocol standards Compatible with PDs compliant with IEEE 802.3af/at standard Compatible with certified non-standard PD store and forward MAC automatic learning and aging IEEE802.3X full-duplex flow control & Backpressure half-duplex flow control
Ethernet protocols and standards	IEEE 802.3 Ethernet Media Access Control Protocol IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE802.3z 1000BASE-X SFP Interface IEEE 802.3af realizes the power supply of Ethernet devices through Ethernet data lines or devices. IEEE 802.3at realizes the high-power power supply of Ethernet devices through Ethernet data lines or devices. IEEE 802.3x flow control
Data transmission rate	Ethernet 10Mbps half-duplex, 20Mbps full duplex Fast Ethernet 100Mbps half-duplex, 200Mbps full duplex Gigabit Ethernet 2000Mbps Full Duplex

Item	The supported contents of the remote control end (through the APP “Amitres IOT”)
Cloud Management: Information View	Switch SN information, device model, firmware version, real-time IP, real-time port power, port LINK status, link duplex, up and down rate, VLAN status;
Cloud Management: Device Operation	Port isolation setting, port restart, port POE switch, port speed limit, port ultra-long switch, switch whole machine restart, whole machine setting reset, port duplex setting, firmware upgrade, VLAN setting;
Security Features	Order-based protection Support MAC/PORT binding Support DHCP snooping and DHCP attack protection Support end-port security and end-port isolation Support CPU protection function
Access control (ACL)	Support port mirroring, port redirection, flow rate limiting, and QoS remarking
Quality of Service (QoS)	Support port priority, 802.1P priority, DSCP priority Support SP, WRR, SP, WRR, Equ priority scheduling algorithm
STP Protocol	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) protocols
Management and Maintenance	Support WEB network management Support PC client management Support remote management via APP “Amitres IOT”

6. POE Performance

项目	参数
IEEE802.3af	Support
IEEE802.3at	Support
Port MAX output	30W
Overcurrent protection	Support
Overvoltage protection	Support
Short circuit protection	Support
Sequential startup (to avoid excessive instantaneous current)	Support
Soft startup for high-power PD	Support

7. Environmental Requirements

Environment	Parameter
Temperature	Working temperature: 0°C~40°C Storage temperature: -40°C~70°C
Humidity	Working humidity: 10% ~ 90% RH non-condensing Storage humidity: 5% ~ 90% RH non-condensing
Altitude	Working altitude: Maximum 6500 feet (2000 meters) Storage altitude: Maximum 6500 feet (2000 meters)

8. Weight

Item	Weight
Bare Metal	2.5kg
FCL(5PCS)	15kg

9. Lightning surge protection (10/700us)

性能	参数
Differential mode	4KV
Common mode	4KV

10. Size Specification

Item	Data
Bare Metal	440mm*180mm*45mm (With ear hook)

Complete machine	465mm*265mm*90mm
FCL(5PCS/Carton)	480mm*470mm*280mm

11. Package、Transportation、Storage

Packing Contents	Data
Filled Protection	Wrapped on the left and right by pearl cotton sleeves for comprehensive protection.
Packing Box	Premium cow card cardboard box, sized 480mm*470mm*280mm
Packing Number	5PCS(carton)
QR code	The packaging box and the device body should have a unique device SN number.
Others	The packaging box should have a label marking the product model code and quantity. This model can be adapted to the rack mounting ears.

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 °C to 70 °C, 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.