

SUNDRAY Gigabit POE switch

Product Overview

With full Gigabit and high performance characteristics, SUNDRAY SW-5024 adopts the new generation switch chip and serves as one component of the entire SUNDRAY wireless solution; it can supply power for the wireless AP through cable, and provides single port up to 30W power, and fully satisfies the requirement of the new generation wireless AP, and establishes a safer, faster and value-added WLAN network for the enterprises.



Product Features

- Maximum supporting 15.4W output power/af with 24 ports or 30W output power/at with 12 ports;
- Supporting IEEE802.3at(30W) standard, and being compatible with IEEE802.3af (15.4W) powered device (PD)
- The traditional mode is broken; not only the data can be transferred, but also the electric power can be transmitted via the cable.
- The powered device complying with the IEEE 802.3at and IEEE 802.3af standard can be automatically detected;
- Advanced self-sensing arithmetic only supplies power for the terminal equipment with IEEE 802.3af/at standard; it is not necessary to worry about the Non-POE equipment or POE equipment with private standard being damaged;

- Power supply priority of the port is supported; the constant power supply of the key network nodes is ensured;
- The longest transmission distance of the power supplied by the cable is 100 meters, which can flexibly extent the network and not be restricted by the electric-power line, and easily hung up the terminal equipment such as the wireless AP and the web cam on the wall or the ceiling.

Technical specifications

SW-5024

Specifications of the SUNDRAY Gigabit POE switch	
Item	SW-5024
Fixed ports	24 10/100/1000M electrical ports (24 POE ports)
	4 Gigabit SFP optical ports (Combo)
Standard of power supply	IEEE802.3af/at
Maximum output power of the single port	30W
Switch maximum POE output power	370W
POE power supply pin	1/2(+), 3/6(-); can be customized 4/5(+),7/8(-)
Forwarding pattern	Storage forwarding with Full line rate
Forwarding rate	10M : 14880pps/port
	100M : 148809pps/port
	1000M : 1488095pps/port
Temperature for operating	0~50°C
Temperature for storage	-40~70°C
Working humidity	10% ~ 90%(no condensation)
Storage humidity	5% ~ 90%(no condensation)
Weight	<5Kg
Input power	AC : 90-264V ~ 50-60Hz/450W
Physical dimension(L×W×H)	440mm×285mm×44.5mm
LED indicator	Power , Link/Act , POE Status
Energy Saving and Environmental Protection	complying with the international standard of the “EEE” environmental protection and energy conservation
Protocol/standard	IEEE 802.3af , Ethernet power supply POE standard;
	IEEE 802.3at , Ethernet power supply POE+ standard;
	IEEE 802.3u , Fast Ethernet standard;
	IEEE 802.3ab , Gigabit Ethernet standard;
	IEEE 802.3z , Gigabit Ethernet fiber-optical standard;
	IEEE 802.3ad , link aggregation protocol;
	IEEE 802.3x , full-duplex Ethernet data link layer flow control;
	IEEE 802.3az , EEE energy-efficient Ethernet standard;
	IEEE 802.1q , VLAN standard ;
	IEEE 802.1p , QoS/CoS quality of service;

	IEEE 802.1d , STP spanning tree protocol;
	IEEE 802.1w , RSTP fast spanning tree protocol;
MAC address	Support 16K MAC address table
	Automatically update and dual-way learning are supported;
VLAN	The maximum number of the supported VLAN is 4096;
	The VLAN based on port is supported;
	The 802.1Q standard VLAN is supported
Spanning tree	STP spanning tree protocol is supported;
	RSTP fast spanning tree protocol is supported;
Port aggregation	The aggregation of eight groups is supported; up to four ports can be supported by each group;
Port mirroring	Bidirectional transeiving Port mirroring is supported
Loop circuit protection	The functions of loop circuit protection, real-time monitoring, promptly alarming, accurate positioning, intelligent blocking and automatic recovery are supported;
Port isolation	Supporting the isolation of the downstream ports, meanwhile supporting the communication with the upstream ports ;
Port flow control	Half-duplex -based back pressure control is supported;
	Full duplex-based PAUSE frame is supported;
Port-rate limiting	Input/output bandwidth management based on the port is supported;
Jumbo frames	Support 9216Byte at the maximum
Multicast control	Supporting the IGMP SNOOPING
Storm restrain	All ports support the broadcast storm restrain based on the packet forwarding rate;
Security features	MAC binding of the port is supported;
	The security limit of the number of the MAC addresses based on the port is supported;
QOS	SP (Strict Priority) , strict priority round robin algorithm;
	WFQ (Weighted Fair Queuing) weighted fair queuing;
	WRR (Weighted Round Robin) , weighted priority round robin algorithm;
	802.1p port queue priority algorithm
	Differentiated Service ;
Physical medium	10Base-T: EIA/TIA-568 standard (\leq 100M)for the unshielded twisted pair of the second, third, forth and fifth type;
	100Base-TX: EIA/TIA-568 standard (\leq 100M)for the unshielded twisted pairs of the second, forth and fifth type;
	1000Base-T: EIA/TIA-568 standard (\leq 100M)for the unshielded twisted pairs of four, fifth type(type 6 is recommended);
Cable sequence	Auto-MDIX function is supported; the Straight-through cable and crossover cable can be automatically identified;
Negotiation mode	The function of the automatic negotiation is supported by the port (self-negotiated transmission rate and the duplex mode);

PHY detection	Detecting the connectivity of the cable is supported;
System Maintenance	Uploading/loading configured files is supported;
	Uploading the upgrade package is supported;
	Support WEB factory reset
	The recovery of the factory configuration by port short circuit is supported;
Network management	The WEB interface management is supported;

Ordering Information

SUNDRAY Gigabit POE switch		
Model	Specification	Remarks
SW-5024	Having 24 Gigabit electrical ports and 4 optical ports, the PoE switch supports 802.3 af/at.	Essential
OM-SFP-Gigabit- Multimode	Multimode fiber optical modules of the Gigabit SFP is 550m;	Optional
OM-SFP-Gigabit-Single-mode-10	Single-mode fiber optical module of the Gigabit SFP is 10 km;	Optional
OM-SFP-Gigabit-10kmSingle-mode-20	Single-mode fiber optical module of the Gigabit SFP is 20 km;	Optional
OM-SFP-Gigabit-Single-mode-40	Single-mode fiber optical module of the Gigabit SFP is 40 km;	Optional
OM-SFP-Gigabit-Single-mode-80	Single-mode fiber optical module of the Gigabit SFP is 80 km;	Optional
O/E-SFP	Photoelectric conversion module of the Gigabit SFP;	Optional



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