

S5028-P

L2+ Managed Gigabit Ethernet Switch with PoE



Description

The S5028-P is a new generation Ethernet intelligent access switch. It is mainly deployed on the IP MAN and intranets, meeting requirements the requirements of carrying various Ethernet services and accessing the Ethernet. It also provide the PoE function for powering of wireless LAN (WLAN) access points, IP security cameras, VoIP telephone and other low port density installations.

The S5028-P is a case-shaped device with a chassis of 1U high. It provides 24 10/100/1000Base-TX ports + 4 10G SFP ports. It provides 8/16/24 PoE Injector.

Features

- IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3af IEEE802.3at
- Provides 24 10/100/1000 Base-TX ports + 4 10G SFP+ ports
- Provides 8/16/24 PoE injector
- Build-in power supplies, optional 150W / 270W / 330W / 450W
- High back-plane bandwidth 128Gbps
- Support MLD Snooping
- Support standard IP/ Extend IP / MAC IP / ARP ACL

- Support IGMP snooping for Multi-media application
- Support Port mirror and bandwidth control
- Support IEEE802.3x Flow control
- Support Port Based VLAN / 802.1Q Tag VLAN
- Support IEEE802.3ad Port trunk with LACP
- Support Spanning tree protocol IEEE802.1d/802.1w/802.1s
- Support IEEE 802.1p class of service
- Support IEEE 802.1x user authentication
- Support Broadcast storm filter
- Support System event log
- Support command line interface management
- Management by Web / SNMP / SSH / Telnet / Console

Specifications

Attributes	
Networking Interfaces	24 x 10/100/1000 Mbps RJ45 Ethernet Ports 4 x 10Gbps SFP+ Ethernet Ports
Management Interface	Console
LED Indicators	Power, Link/Act, PoE
Performance	
Switching Capacity	128 Gbps
Forwarding Capacity	95.2 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2G Mbit
Flash Memory	512 Mbit
MAC Address Table	16K

Max. Jumbo Frame size	16K
VLAN Quantity	4K
ACL Table	512
L3 Interface	32
Port Queues	8
PoE Budget	130W / 250W / 310W / 430W

Physical

Dimensions	440 x 200 x 44 mm
Weight	
Operating Temperature	0 to 40°C
Storage Temperature	-10 to 70°C
Operating Humidity	5 to 95% Noncondensing
Power Method	100-240VAC, 50/60Hz
Max. Power Consumption	Including PoE Output: 150W / 270W / 330W / 450W Excluding PoE Output: 20W
EMC Safety	FCC, CE, RoHS
Reliability	

Power over Ethernet

PoE Interfaces	Ports 1-24
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W

PoE Voltage	52VDC
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)
PoE Management	Port-base PoE status view and control

Port Configuration

Enable and Disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed
Flow Control	Support IEEE802.3x full-duplex

	Support half-duplex backpressure
Storm Control	Support broadcast, multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit
Link Aggregation	Support manual Link Aggregation Support LACP Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into isolated protected port from each other
MAC Configuration	
MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Support limit the number of MAC-addresses Learning per port
VLAN Configuration	
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
Reliability Protocol	
Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support

Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
Host Routing	
Static ARP	Support
Static Routing	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support
MVR	Support
GMRP	Support
Access Control List (ACL)	
Based on Standard IP	Support
Based on Extend IP	Support
Based on MAC IP	Support
Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support
Quality of Service (QOS)	
Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(DiffServ)	Support
Security	
Administrative Security	Support start and end TELNET, WEB and SNMP serve Support TELNET, WEB and SNMP serve binding with Standard IP ACL Support control the number of user for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between static configuration IP, MAC and Port

AAA	<p>Support 802.1x protocol</p> <p>Support RADIUS protocol</p> <p>Support RADIUS server authentication authorization and bill</p> <p>Support MAC-based 802.1X authentication.</p> <p>Support 802.1x guest VLAN</p>
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DHCP SNOOPING	<p>Support dynamic ARP binding to prevent ARP spoofing</p> <p>Support dynamic IP, MAC port binding</p> <p>Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever</p>
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Prevent ARP Spoofing	<p>Support manual configure ACL rule based on MAC ARP prevent ARP spoofing</p> <p>Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing</p>
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Management Feature

CLI Management	<p>Support serial port management</p> <p>Support TELNET management</p> <p>Support SSH management</p>
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WEB Management	Support
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SNMP Management	<p>Support SNMP protocol</p> <p>Support SNMP TRAP</p> <p>Support standard and private MIB</p>
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User management	Support multi-user management
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Show CPU Utilization	Support
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Show RAM Utilization	Support
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Log Management	Support
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Configuration Download / Upload	Support
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Upgrade Firmware	Support
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Timer Management	<p>Support local timer management</p> <p>Support SNTP protocol get clock</p>
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Debugging Tools

PING	Support
TRACEROUTE	Support
TELNET Client	Support

Package List

PoE Switch	1pcs
User Manual	1pcs
Power Cord	1pcs
DB9 to RJ45 Cable	1pcs
Rack Mount Kit	2pcs
Rubber Feet	4pcs

Order Information

Switch Models

S5028-8P-150	24GE + 4x10G SFP+ Managed Switch with 8 PoE (150W)
S5028-8P-270	24GE + 4x10G SFP+ Managed Switch with 8 PoE (270W)
S5028-16P-270	24GE + 4x10G SFP+ Managed Switch with 16 PoE (270W)
S5028-16P-330	24GE + 4x10G SFP+ Managed Switch with 16 PoE (330W)
S5028-24P-330	24GE + 4x10G SFP+ Managed Switch with 24 PoE (330W)
S5028-24P-450	24GE + 4x10G SFP+ Managed Switch with 24 PoE (450W)
S5028HV-8P-150	24GE + 4x10G SFP+ Managed Switch with 8 PoE (150W) (6kV Surge)
S5028HV-8P-270	24GE + 4x10G SFP+ Managed Switch with 8 PoE (270W) (6kV Surge)
S5028HV-16P-270	24GE + 4x10G SFP+ Managed Switch with 16 PoE (270W) (6kV Surge)
S5028HV-16P-330	24GE + 4x10G SFP+ Managed Switch with 16 PoE (330W) (6kV Surge)

S5028HV-24P-330	24GE + 4x10G SFP+ Managed Switch with 24 PoE (330W) (6kV Surge)
S5028HV-24P-450	24GE + 4x10G SFP+ Managed Switch with 24 PoE (450W) (6kV Surge)
SFP Modules	
GSFP-RJ45	1000M SFP module, RJ45 port
GSFP-M-LC-R5	1000M SFP module, multi-mode, 500M, 850nm, LC
GSFP-S-LC-20	1000M SFP module, single-mode, 20km, 1310nm , LC
GSFP-S-LC-40	1000M SFP module, single-mode, 40km, 1310nm, LC
GSFP-S-LC-80	1000M SFP module, single-mode, 80km, 1550nm, LC
XGSFP-RJ45	10G SFP module, RJ45 port
XGSFP-M-LC-01	10G SFP module, multi-mode, 500M, 850nm, LC
XGSFP-S-LC-20	10G SFP module, single-mode, 20km, 1310nm , LC
XGSFP-S-LC-40	10G SFP module, single-mode, 40km, 1310nm, LC
XGSFP-S-LC-80	10G SFP module, single-mode, 80km, 1550nm, LC