

S5028F

Layer 3 Managed 24 Ports Gigabit Aggregation Switch with 4 10G SFP+ uplink ports



Product Description:

S5028F is a high-performance Layer 2/Layer 3 aggregation switch designed for enterprise, campus, and metro networks, offering scalable bandwidth, robust switching, and seamless uplink connectivity.

Key Features:

- ✓ 24x Gigabit Ethernet Ports – Supports high-speed 1G SFP or copper connections for flexible access.
- ✓ 4x 10G SFP+ Uplinks – Enables high-bandwidth aggregation, backbone links, and future-proof scalability.
- ✓ Enterprise-Grade Switching – Advanced QoS, VLAN, and security features for optimized traffic management.
- ✓ Energy-Efficient Design – Low power consumption with fanless or quiet cooling options (if applicable).
- ✓ Rack-Mountable (1U) – Compact form factor for easy deployment in data centers or network closets.

Typical Applications:

- Network Aggregation – Connects multiple access switches with 10G uplinks.
- Data Center Edge – High-density 1G server/storage connectivity with 10G backbone.
- Campus & Metro Networks – Reliable distribution for business, education, or ISP networks

Product Features:

- IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z
- Provides 24 1G SFP ports + 4 10G SFP+ ports
- 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 DHCP client, DHCP relay, DHCP server, DHCP snooping
- Support Static Route, Policy Route, RIP, OSPF, VRRP
- Support System event log
- Support command line interface management
- Management by Web / SNMP / SSH / Telnet / Console

Product Specifications:

Attributes	
Networking Interfaces	24 x 1Gps SFP Ethernet Ports 4 x 10Gbps SFP+ Ethernet Ports
Management Interface	Console
LED Indicators	Power, Link/Act
Performance	
Switching Capacity	128 Gbps
Forwarding Capacity	95.2 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2 Gbit
Flash Memory	256 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16KB
VLAN Quantity	4K
ACL Table	1K
L3 Interface	1K
Port Queues	8
Physical	
Dimensions	440 x 350 x 44 mm
Weight	4KG
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	50W
EMC Safety	FCC, CE, RoHS

Reliability	1 Years Warranty
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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	Support 802.1x protocol Support RADIUS protocol Support RADIUS server authentication authorization and bill Support MAC-based 802.1X authentication. Support 802.1x guest VLAN
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC port binding Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever

Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing
Management Feature	
CLI Management	Support serial port management Support TELNET management Support SSH management
WEB Management	Support
SNMP Management	Support SNMP protocol Support SNMP TRAP Support standard and private MIB
User management	Support multi-user management
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support
Configuration Download / Upload	Support
Upgrade Firmware	Support
Timer Management	Support local timer management Support SNTP protocol get clock
Debugging Tools	
PING	Support
TRACEROUTE	Support
TELNET Client	Support
Package List	
Switch	1pcs
User Manual	1pcs
Power Cord	1pcs
DB9 to RJ45 Cable	1pcs
Rack Mount Kit	2pcs
Rubber Feet	4pcs

Order Information:

Switch Models	
S5028F	24x1G SFP + 4x10G SFP+ Managed Switch
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