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Features:

- Fixed Port : 48*10/100/1000Base-TX
  4*10G SFP+
- PoE Port: 1-4port supports PoE IEEE 802.3af/at/poe++/BT
  5-48 port supports PoE IEEE 802.3af/at

Fixed Port	48*10/100/1000Base-TX 4*10G SFP+
PoE Port	1-4port supports PoE IEEE 802.3af/at/poe++/BT 5-48 port supports PoE IEEE 802.3af/at
PoE type	IEEE802.3af/at/Poe++/BT
Console Port	1*console port
Reset Key	1
CPU	400MHz ARM® Cortex™-A9
DDR	2G DDR3 1333MHz
Buffer	Fully integrated 1.5 MB packet buffer
FLASH	64M
RAM	256M
Bandwidth	512Gbps
Packet Forwarding	184.64Mpps
MAC Address	16K
Network Protocol	IEEE 802.3 IEEE 802.3u 100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3x IEEE 802.3z 1000BASE-X IEEE 802.3af/at/PoE++/BT IEEE 802.3ad IEEE 802.3q 、IEEE 802.3q/p IEEE 802.1w、IEEE 802.1d 、IEEE 802.1S STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol

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Port Specification	10/100/1000BaseT（X）Auto
Transmission Mode	Store and Forward(full wirespeed)
Transmission Distance	10BASE-T ： Cat3,4,5 UTP(≤250 meter) 100BASE-TX ： Cat5 or later UTP(≤100 meter) 1000BASE-TX ： Cat6 or later UTP(≤1000 meter)
LED Indicator	PWR:Power LED SYS:(System LED) 1~48:(Link LED=10/100M Link、1000M=Gigabit Link） 1~48:(PoE LED=PoE on） 4950 51 52 :（SFP LED）
Power	Built-in power AC 100~240V 50/60HZ MAX Max Current 10A Max Power 800W
Operating Temperature/Humidity	-20～+55°C；5%～90% RH Non coagulation
Storage Temperature/Humidity	-40～+75°C；5%～95% RH Non coagulation
Physical size	Product size:440mm*360mm*45mm Packing size: 515mm*375mm*95mm
N.W/G.W（kg）	4.8kg/5.5kg
Installation type	1U Rack type, 19 "
Lightning protection level	3KV 8/20us； IP30
Certificate	CE mark, commercial；CE/LVD EN60950； FCC Part 15 Class B；RoHS；
Warranty	Whole device for 1 year(Accessories not included)

Port	
Number of Copper Gigabit ports	24-48
Number of Fiber 10G or 1G ports	4
Port Shutdown	Support
Port Speed	Support autonegtiate, full-1000, full-100, half-100, full-10, half-10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.
Port Mirror	Support
Port Rate Limit	Support port ingress and egress rate limit
Link Aggregation	Support manual link aggregation Support LACP dynamic link aggregation Supports up to 32 aggregation groups, each group up

	to 8 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Redundant Port	Support

MAC

MAC Table Capacity	16K
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port

VLAN

Number of VLANs	4K
802.1q-based VLAN	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
Voice VLAN	Support
VLAN Mapping	Support 1:1 mapping
QinQ	Support basic QinQ Support flexible QinQ

Reliability

Spanning Tree Protocol	Support STP/RSTP/MSTP
Port Loop Detection	Support
EAPS	Support
ERPS	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop Protection)	Support, Only used with VRRP

L3

ARP	Support static and dynamic ARP
Static Route	Support
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Support

VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3
	Support IGMP Querier
	Support IGMP SNOOPING Filter
MVR	Support
GMRP	Support
ACL	
Standard IP-based ACL	Support
Extended IP based ACL	Support
MAC IP-based ACL	Support
MAC ARP-based ACL	Support
ACL Port Filtering	Support
Time-based ACL	Support
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR，RR，WDRR，SP
Port-based Classification	Support
802.1p-based Classification	Support
DSCP-based Classification	Support
ACL-based Classification	Support
QoS Policy	Support packets mapping to queue
	Support COS or DSCP Remarking
	Support rate limits of data flow
	Support data flow statistics
	Support mirroring of data flow
DHCP	
DHCP Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
Management	
CLI Management	Support Console, Telnet and SSH
WEB Management	Support HTTP and HTTPS
SNMP Management	Support SNMP v1, v2c
	Support SNMP TRAP
	Support lots of standard and private MIBs
User Management	Support multiple user management

Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
Configuration File	Support uploading and downloading configuration file
Upgrade software	Support
Clock Management	Support local clock management Support SNTP
Security	
Switch Management Security	Support enabling and disabling TELNET, WEB and SNMP services Support TELNET, WEB and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET connections
CPU Protection	The switch's own security protection prevents large data streams from attacking the switch itself.
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x Support 802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
POE	
Switch Control	Support POE powering of ports on and off
Power Control	Support setting total power
Other Advanced Features	Support POE scheduling policy and PD online query, etc.
Debugging	
PING	Support

TRACEROUTE	Support
TELNET Client	Support