

Features	L2+ Switch	L3 Switch
<b>Port</b>		
Port Shutdown	Support	Support
Port Speed	Support autonegotiate, full-1000, full-100, half-100, full-10, half-10	Support autonegotiate, full-1000, full-100, half-100, full-10, half-10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets	Supports rate limit for broadcast, multicast, and DLF packets
<b>Storm Constrain</b>	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.	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	Support
Port Rate Limit	Support port ingress and egress rate limit	Support port ingress and egress rate limit
Link Aggregation	Support manual link aggregation Support LACP dynamic link aggregation Supports up to 8 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	Support manual link aggregation Support LACP dynamic link aggregation Supports up to 64 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	Support
Jumbo Frame	Support up to 16KB packet	Support up to 16KB packet
Cable Distance Diag	Support	Support
Redundant Port	Support	Support
The DDM of fiber ports	Support	Support
<b>MAC</b>		
MAC Table Capacity	8K	16K-32K
MAC Table Management	Support	Support
Forwarding mode	Support IVL forwarding mode	Support IVL forwarding mode
Static MAC Address	Support	Support
MAC Address Binding	Support	Support
MAC Address Filtering	Support	Support
MAC Learning Control	Control the MAC learning based on port	Control the MAC learning based on port
<b>VLAN</b>		
Number of VLANs	4K	4K
802.1q-based VLAN	Support	Support
MAC-based VLAN	Support	Support
IP-based VLAN	Support	Support
Protocol-based VLAN	Support	Support
PVLAN (Protocol-based VLAN)	Support	Support
Voice VLAN	Support	Support
VLAN Mapping	Support 1:1 mapping	Support 1:1 mapping
QinQ	Support basic QinQ Support flexible QinQ	Support basic QinQ Support flexible QinQ
<b>Reliability</b>		
Spanning Tree Protocol	Support STP/RSTP/MSTP	Support STP/RSTP/MSTP
Port Loop Detection	Support	Support
EAPS	Support RFC3619	Support RFC3619
ERPS	Support G.8032/Y.1344	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop Protection)		Support, Only used with VRRP

<b>IP</b>		<b>L3</b>
ARP	Support static and dynamic ARP	Support static and dynamic ARP
IP Route	Support 0.0.0.0/0 route and other static route, but can't support L3 forwarding	Support 0.0.0.0/0 route and other static route, but can't support L3 forwarding Support static route based on IPv4 and IPv6
VLAN Interface	Support 32 VLAN interfaces	Support 32 VLAN interfaces
RIP		Support RIP v1/v2 & IPv6 RIPng
OSPF		Support OSPFv2 & IPv6 OSPFv3
BGP		Support BGP4 & IPv6 BGP4+
Policy Route		Support
VRRP		Support
<b>Multicast</b>		
Static Multicast MAC Address	Support	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier Support IGMP SNOOPING Filter	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier Support IGMP SNOOPING Filter
IGMP	Support IGMP v1/v2/v3	Support IGMP v1/v2/v3
MLD SNOOPING	Support	Support
MVR	Support	Support
GMRP	Support	Support
<b>ACL</b>		
Standard IP-based ACL	Support	Support
Extended IP based ACL	Support	Support
MAC IP-based ACL	Support	Support
MAC ARP-based ACL	Support	Support
IPv6-based ACL	Support	Support
ACL Port Filtering	Support	Support
Time-based ACL	Support	Support
<b>QoS</b>		
Port Queue Number	8	8
Port Queue Scheduling Mode	Support WRR, SP, WFQ	Support WRR, RR, WDRR, SP
Port-based Classification	Support	Support
802.1p-based Classification	Support	Support
DSCP-based Classification	Support	Support
ACL-based Classification	Support	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	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
<b>DHCP</b>		
DHCPv4 Client	Support	Support DHCP Client
DHCPv6 Client	Support	
DHCP Snooping	Support	Support
DHCP Relay	Support	Support
DHCP Server	Support	Support
DHCP option 82	Support	Support
<b>Management</b>		
CLI Management	Support Console, TELNET and SSH Support multiple TELNET connections based on IPv4 and IPv6 Support multiple SSH connections based on IPv4 and IPv6 Support running configuration rollback Support ZTP (Zero Touch Configuration)	Support Console, TELNET and SSH Support multiple TELNET connections based on IPv4 and IPv6 Support multiple SSH connections based on IPv4 and IPv6 Support running configuration rollback Support ZTP (Zero Touch Configuration)

WEB Management	Support HTTP	Support HTTP based on IPv4 and IPv6 Support HTTPS based on IPv4 and IPv6
SNMP Management	Support SNMP v1, v2c, v3 Support SNMP TRAP Support lots of standard and private MIBs Support SNMP based on IPv4 and IPv6	Support SNMP v1, v2c, v3 Support SNMP TRAP Support lots of standard and private MIBs Support SNMP and TRAP based on IPv4 and IPv6
User Management	Support multiple user management	Support multiple user management
TACACS+	support switch authentication via TACACS+ server remote username and password Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6	support switch authentication via TACACS+ server remote username and password Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6
Log Management	Support local log management Support SYSLOG based on IPv4 and IPv6	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups	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	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
OAM	Support 802.3ah Support 802.1ag	Support 802.3ah Support 802.1ag
Configuration File	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Upgrade software	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Clock Management	Support local clock management Support SNTP based IPv4 and IPv6	Support local clock management Support SNTP based IPv4 and IPv6
<b>Security</b>		
Switch Management Security	Support enabling and disabling TELNET, SSH, WEB and SNMP services Support TELNET, SSH, WEB and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET connections	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.	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	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	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	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	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.	address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
<b>PoE</b>		
Switch Control	Support PoE powering of ports on and off	Support POE powering of ports on and off
Power Control	Support setting total power	Support setting total power
Other Advanced Features	Support PoE scheduling policy and PD online query, etc.	Support POE scheduling policy and PD online query, etc.
<b>IPv6</b>		
IPv4/IPv6 Dual Protocol Stack	Support	Support
IPv6 Address	Support manual address configuration, stateless address auto-configuration and stateful address configuration obtained through DHCPv6 client	Support manual address configuration, stateless address auto-configuration and stateful address configuration obtained through DHCPv6 client
IPv6 Neighbor Discovery	Support	Support
ICMPv6	Support	Support
IPv6 Path MTU Discovery	Support	Support
<b>Debugging</b>		
PING	Support	Support
PING6	Support	Support
TRACEROUTE	Support	Support
TELNET Client	Support TELNET client based IPv4 and IPv6	Support
SSH Client	Support SSH client based IPv4 and IPv6	Support SSH client based IPv4 and IPv6
TWAMP	Support TWAMP server and session-reflector	Support TWAMP server and session-reflector