**S4600 Series POE++ Switches Datasheet**

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* **S4624P-4N1Z** 24 Port 10M/100M/1000M/2.5G/5G BASE-T with PoE++(90w) L3 Managed Ethernet Switch with 1\*100Gb QSFP28 And 4\*25G/10G Uplinks, Ultra-Long-Distance PoE++ 300m, 600W-2400W flexible PoE PSU

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* **S4624P-8N** 24 Port 10/100/1000/2.5G/5GBASE-T with PoE++(90w) L3 Managed Ethernet Switch with 8\*25G/10G Uplinks, Ultra-Long-Distance PoE++ 300m, 600W-2400W flexible PoE PSU

**OVERVIEW**

S4600 Series routing switches, high-performance Layer 3 Ethernet switch with 5G /Multi-Gigabit /25G SFP28/ 100G QSFP28 Ports compact 1U form factor. The FOS delivers robust feature support，Provide complete Layer 3 network features.

Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next generation enterprise, Wi-Fi 6 Access, Metro and HCI (Hyper Converged Infrastructure) networks.

**Based on Carrier Grade High performance chip**

S4600 Series routing switches, which are designed based on sixth generation ethernet switching chip. The Carrier Grade high-performance chip which help the S4600 to meet the requirement of Metro/Enterprise/Data Center/HCI networks.

**Varied Port Types**

Support 10M/100M/1G /2.5G /10G / 25G/40G/100G ports to meet different network requirements.

**Ultra-Long-Distance PoE++**

Optical-electrical synergy, implementing 300 m PoE++ (90W) and 10 Gbit/s access for Wi-Fi 6 Aps and other PDs. 600W/900W/1200W flexible PoE PSU. Compatible 802.3af/at/bt standard.

**System Design for Green and Energy Saving**

Intelligent FAN adjustment and real-time power consumption monitoring technology are provided for the cost of maintenance redundancy and help to build a green and energy saving networks.

**Customized Profile for Different Deployment Scenarios**

The Flexible Table Management (FTM) technology offers multiple table size configuration profiles as optimized choices for different network scenarios. Support up to 112K \* MAC address tables. Support up to 56K \* IP routing tables.

**Intelligent Ethernet OAM: completed network fault management and performance guaranty**

With the IEEE802.1ag and ITU-T Y.1731 end-to-end OAM, Ethernet service providers can monitor the services, survey the end-to end performance and ensure the service quality match the agreement.

* The fault management technique includes CCM, LTM and LBM. Performance targets include measure for latency and jitter.
* S4600 Series routing switches Support remote management，network monitoring，network fault indication，remote loopback and MIB parameter retrieval according to the standard 802.3ah EFM.

**Data Center Features**

S4600 Series routing switches supports leading edge Data Center features: Priority Flow Control (PFC), explicit Congestion Notification (ECN) and Data Center TCP, etc.

* Support MLAG (Multi-Chassis Link Aggregation) to aggregate links across different devices. MLAG can build an Active-Active system to improve the reliability of the network links from single board grade to device grade. MLAG use a peer link between to devices to aggregate two devices and make them as one device logically. Ports of two different devices join the aggregate ports together and all port can transmit the data traffic. MLAG need to management the device respectively, but the configurations are easier than stacking, reboot is NOT required after MLAG is configured. Forwarding and configuring are processing on local device, in normal condition the traffic do NOT transmit trough the peer link, the bandwidth of peer link is not the bottleneck of the network and the latency is low.
* Support overlay technology (include NVGRE/VXLAN/GENEVE etc.). Overlay can make layer2 packets across the layer3 networks by using NVGRE/VXLAN/GENEVE header to encapsulate the entire Ethernet packets. Overlay resolves the problem of MAC table size limitation in traditional layer2 networks, resolves the problem of VLAN id count limitation, and resolves the problem network dynamic adjustment which cannot achieve by VLAN/VPN. Use VXLAN for example, 24 bits VNI identifier can support at most 16777215 logic networks, layer2 networks built by VXLAN can keep the same IP/MAC etc. when move the virtue machine.
* MLAG and overlay features are also good candidates for switches in data center network.
* S4600 Series routing switches supports RPC-API for SDN (Software Defined Network). SDN is a new architecture of network which can substantially simplify the management and maintenance by separating the control plane and data plane of the network.

**High Reliability**

S4600 is powered by Hot-swappable power modules which supports AC/DC 1+1 redundancy；Fans support 1+1 redundancy；Support Real-time environment monitoring technology to detect the chipset temperature, status of fan and power, etc.

* Support LACP / ECMP / VRRP / VARP / STP/RSTP/MSTP / Smart Link / BFD / ERPS / G.8031 / G.8032 / Load-Balancing, etc. to protect the network traffic all-around effectively.
* Patented technology “Sysmon” for CPU status monitoring can take action when system is error.

**Outstanding QoS Control**

S4600 Series routing switches provides 13 hardware queues per-port (8 unicast queues, 4 multicast queues, and 1 monitor queue).Support multi-stage scheduling technology such as WDRR (Weighted Deficit Round Robin) / SP (Strict Priority) and TD (Tail Drop) / WRED (Weighted Random Early Detection) to prevent congestion. Support flexible queue scheduling mechanism to do the shaping for queue or port traffic.

* Ingress and egress policer provide intelligent bandwidth monitoring, which support to adjust the granularity according to the port speed. Both srTCM (Single Rate Three Color Marker) and trTCM (Two Rate Three Color Marker) can be supported.

**Triple-play Service Support with Bandwidth Guaranty for High Quality Application**

S4600 Series routing switches offers high bandwidth for Triple-Play services such as IPTV, video monitoring. The built-in QoS capabilities and flexible queuing technologies guarantee high quality of services.

* Rich multicast protocol set (IGMP Snooping, IGMP v1/v2, PIM-SM) support up to 2K multicast groups and 4K logical replications per group. With FOS software, IPTV service and multicast latency control are fully supported.

**Comprehensive Network Security Policy**

S4600 Series routing switches supports subscriber-class / switch-class / network-class security control.

* IPv4 / IPv6 / MAC ACL can filter IPv4 / IPv6 / Non-IP packet respectively. Besides that, extended IPv4/IPv6 ACL which can match Layer2 / layer3 / layer4 information in one rule is available. The ACLs can apply to physical ports / vlan / port group / vlan group. The members of port group or vlan group share a set of ACLs and save the TCAM resource.
* ARP Inspection and IP Source Guard features prevent network from malicious ARP attack. Support CPU Traffic Protection, Storm control and CPU load optimization features. Support centralized 802.1x authentication feature to forbidden illegal user accessing network.

**Convenient Management features**

* Support varied management interfaces, include console port / inband network ports / outband network port. Support SNMP v1/v2/v3, Support CLI (Command Line Interface), web management, Telnet and FTP connection. Support OAM to make management more convenient, and support SSH2.0, SSL, etc. to ensure security of management.

**CHARACTERISTICS**

|  |  |  |
| --- | --- | --- |
| **Product Name** | **S4624P-4N1Z** | **S4624P-8N** |
| Ethernet Ports | - 24 \* 10/100/1G/2.5G/5GBASE-T  - 1\*100Gb QSFP28  - 4\*25G/10G SFP28 | - 24 \* 10/100/1G/2.5G/5GBASE-T  - 8\*25G/10G SFP28 |
| 802.3BT PoE++ Ports | 24 | 24 |
| Power Supplies | 2\*600W/900W/1200W PoE Hot-swappable Power Supplies | 2\*600W/900W/1200W PoE Hot-swappable Power Supplies |
| Management Ports | 1\*Console Port (RJ45)  1\* Ethernet Management Port（RJ45）  1\* USB Port | |
| Fans | 2\*Hot-swappable Fan Module （2 Fans Per Module） | |
| Airflow | Front-to-Rear | |
| Flash Memory | 8GB EMMC （OS）  4MB SPI Flash（Boot） | |
| DRAM | 2GB | |
| Switching Capacity | 880Gbps | |
| MAC address | 98304 | |
| Size | 442mm\*356.5mm\*43.6mm | |
| Weight | 6.96kg (Include 2 Power Modules) | |
| Operating Temperature | 0ºC to 45ºC | |
| Storage Temperature | -40ºC to 70ºC | |
| Operating Humidity | 10% to 90% (Non-condensing) | |
| Storage Humidity | 0 to 95% (Non-condensing) | |
| Temperature Alarm | 50ºC | |

**SOFTWARE FEATURE LIST**

Tips ：● Support ○ Unsupport

| **Type** | **Feature** | **Description** | **license** | | |
| --- | --- | --- | --- | --- | --- |
| **EB** | **MS** | **MA** |
| Ethernet | interface | Ethernet interface operating modes(full duplex, half duplex, and auto-negotiation) | ● | ● | ● |
| Ethernet interface operating rates | ● | ● | ● |
| Jumbo Frame | ● | ● | ● |
| port-xconnect | ● | ● | ● |
| Flow-control | Flow-control tx/rx | ● | ● | ● |
| storm-control | Port based storm-control | ● | ● | ● |
| Port-block | Port-block(know-unicast/unknow-unicast/know-multicast/unknow-multicast/broadcast) | ● | ● | ● |
| Port-isolate | L2/L3/All Port-isolate | ● | ● | ● |
| Uni-direction isolate | ● | ● | ● |
| L2 Protocol Tunnel | L2 Protocol Tunnel(support CDP/CFM/DOT1X/LLDP/SLOW-PROTO/STP/VTP | ● | ● | ● |
| Forward mode | Store-and-forward | ● | ● | ● |
| Cut-through | ● | ● | ● |
| VLAN | VLAN Access mode | Access/Trunk | ● | ● | ● |
| Default VLAN | ● | ● | ● |
| VLAN Classification | VLAN Classification(port based/mac based/ip based/protocal based) | ● | ● | ● |
| QinQ | Basic QinQ | ● | ● | ● |
| Selective QinQ | ● | ● | ● |
| VLAN Mapping（1:1 VLAN Translation） | ● | ● | ● |
| VLAN Statistics | VLAN Statistics | ● | ● | ● |
| Private VLAN | Private VLAN | ● | ● | ● |
| Voice VLAN | Voice VLAN | ● | ● | ● |
| Guest VLAN | Guest VLAN | ● | ● | ● |
| MAC | MAC Address Table | Automatic learning and aging of MAC addresses | ● | ● | ● |
| Hardware Learning | ● | ● | ● |
| Static and dynamic MAC address entries | ● | ● | ● |
| blackhole MAC | ● | ● | ● |
| MAC Flapping detect | MAC Flapping detect | ● | ● | ● |
| Port Bridge | Port Bridge | ● | ● | ● |
| LAG | Link aggregation | Static-LAG & LACP | ● | ● | ● |
| LAG load balance（SLB） | ● | ● | ● |
| LAG load balance（DLB） | ● | ● | ● |
| LAG load balance（RR） | ● | ● | ● |
| LAG Self-healing | ● | ● | ● |
| xSTP | STP | Spanning-Tree Protocol | ● | ● | ● |
| RSTP | Rapid Spanning-Tree Protocol | ● | ● | ● |
| MSTP | Multi-instance Spanning-Tree Protocol | ● | ● | ● |
| Spanning-Tree Protocol Protection | BPDU Filter/Guard | ● | ● | ● |
| Root Guard | ● | ● | ● |
| Loop Guard | ● | ● | ● |
| Anti TC-BPDU attack | ● | ● | ● |
| ERPS | ERPS | Single ERPS ring | ● | ● | ● |
| tangent ERPS rings | ● | ● | ● |
| intersecting ERPS rings | ● | ● | ● |
| compatible with RRPP | ● | ● | ● |
| G.8031 | G.8031 | G.8031（Ethernet Linear Network Protection） | ● | ● | ● |
| G.8032 | G.8032 | G.8032 V1 & V2 | ● | ● | ● |
| Single Ring | ● | ● | ● |
| Sub Ring | ● | ● | ● |
| Loopback Detect | Loopback Detect | Loopback-detection | ● | ● | ● |
| Layer2 Multicast | IGMP Snooping | IGMPv1/v2/v3 Snooping | ● | ● | ● |
| Fast leave | ● | ● | ● |
| Static IGMP snooping group | ● | ● | ● |
| MVR | MVR（Multicast VLAN Registration） | ● | ● | ● |
| ARP | ARP | Static and dynamic ARP entries | ● | ● | ● |
| Aging of ARP entries | ● | ● | ● |
| Gratuitous ARP | ● | ● | ● |
| ARP proxy | basic ARP-Proxy | ● | ● | ● |
| local ARP-Proxy | ● | ● | ● |
| IPv4 Unicast Routing | IPv4 Static Routes | IPv4 Static Routes | ● | ● | ● |
| blackhole Routes | ● | ● | ● |
| co-work with IP SLA | ● | ● | ● |
| VRF（Virtual Routing and Forwarding） | ● | ● | ● |
| uRPF check | ● | ● | ● |
| RIP | RIPv1/v2 | ● | ● | ● |
| OSPFv2 | OSPFv2 | ○ | ● | ● |
| IS-IS | IS-IS | ○ | ● | ● |
| BGP | IBGP | ○ | ● | ● |
| EBGP | ○ | ● | ● |
| Route policy | Route-map | ● | ● | ● |
| IPv4 prefix-list | ● | ● | ● |
| PBR | PBR（Policy-based Routing） | ● | ● | ● |
| ICMP | ICMP redirect | ● | ● | ● |
| ICMP unreachables | ● | ● | ● |
| ECMP | ECMP(SLB) | ● | ● | ● |
| ECMP(DLB) | ● | ● | ● |
| ECMP(RR) | ● | ● | ● |
| ECMP Self-healing | ● | ● | ● |
| IPv4 Multicast Routing | IGMP | IGMPv1/v2/v3 | ● | ● | ● |
| IGMP-Proxy | ● | ● | ● |
| IGMP SSM Mapping | ● | ● | ● |
| PIM | PIM-SM | ○ | ● | ● |
| PIM-SSM | ○ | ● | ● |
| PIM-DM | ○ | ● | ● |
| IPv6 Basic Protocol | ICMPv6 | ICMPv6 | ○ | ● | ● |
| NDP | NDP | ○ | ● | ● |
| PMTU | PMTU | ○ | ● | ● |
| IPv6 Unicast Routing | IPv6 Static Routes | IPv6 Static Routes | ○ | ● | ● |
| RIPng | RIPng | ○ | ● | ● |
| OSPFv3 | OSPFv3 | ○ | ● | ● |
| IPv6 Multicast Routing | MLD v1/v2 | MLD v1/v2 | ○ | ● | ● |
| MLD v1/v2 Snooping | MLD v1/v2 Snooping | ○ | ● | ● |
| MVR6 | MVR6 | ○ | ● | ● |
| PIM-SM v6 | PIM-SM v6 | ○ | ● | ● |
| IP Tunnel | IPv6 over IPv4 Tunnel | IPv6 over IPv4 Tunnel | ○ | ● | ● |
| 6to4 Tunnel | 6to4 Tunnel | ○ | ● | ● |
| ISATAP Tunnel | ISATAP Tunnel | ○ | ● | ● |
| IPv6 Service | DHCPv6 | DHCPv6 Relay | ○ | ● | ● |
| DHCPv6 Snooping | ○ | ● | ● |
| IPv6 Prefix List | IPv6 Prefix-list | ○ | ● | ● |
| BFD | BFD | BFD for Static route | ○ | ● | ● |
| BFD for OSPFv2 | ○ | ● | ● |
| BFD for VRRP/Track | ○ | ● | ● |
| BFD for PBR | ○ | ● | ● |
| VRRP | VRRP | VRRP | ● | ● | ● |
| Track for VRRP | ● | ● | ● |
| Smart Link | Smart Link | multi-instance | ● | ● | ● |
| load balance | ● | ● | ● |
| Multi-Link | ● | ● | ● |
| Monitor-link | ● | ● | ● |
| MLAG | MLAG | MLAG basic | ● | ● | ● |
| MLAG orphan Port | ● | ● | ● |
| EFM | EFM (802.3ah) | Auto detection | ○ | ● | ● |
| Network fault detetion | ○ | ● | ● |
| Network fault handle | ○ | ● | ● |
| remote loopback | ○ | ● | ● |
| CFM | CFM (802.1ag) | Hardware CCM detect | ○ | ● | ● |
| MAC Ping | ○ | ● | ● |
| MAC Trace | ○ | ● | ● |
| Y.1731 | Y.1731 | Latency and jitter measure | ○ | ● | ● |
| PoE | System Power management | Power supply on-spot detection | ● | ● | ● |
| Power supply capability detection | ● | ● | ● |
| Power capability auto configuration (PSE) | ● | ● | ● |
| Power Supply Management | Legacy PD detection | ● | ● | ● |
| PD max power management | ● | ● | ● |
| PD priority management | ● | ● | ● |
| Power Supply Task Plan management | ● | ● | ● |
| PD Mandatory power supply | ● | ● | ● |
| operations management | PSE log | ● | ● | ● |
| PSE Chipset temperature inquire | ● | ● | ● |
| PSE firmware update | ● | ● | ● |
| QoS | Traffic classification | Traffic classification based on COS/DSCP (simple classification) | ● | ● | ● |
| Traffic classification based on ACL ( complex classification) | ● | ● | ● |
| Traffic classification based on inner header of the tunnel packets | ● | ● | ● |
| Traffic behaviors | Queue scheduling | ● | ● | ● |
| Remark the priority fields(COS/DSCP) of the packet based on ACL | ● | ● | ● |
| Remark the priority fields(COS/DSCP) of the packet based on Table Map | ● | ● | ● |
| Flow redirection | ● | ● | ● |
| Flow mirror | ● | ● | ● |
| Traffic policing | Traffic policing based on direction(in/out) of Port | ● | ● | ● |
| Traffic policing based on direction(in/out) of VLAN | ● | ● | ● |
| Traffic policing based on direction(in/out) of flow | ● | ● | ● |
| Traffic policing based on direction(in/out) of aggregated flow | ● | ● | ● |
| Traffic shaping | Queue based traffic shaping | ● | ● | ● |
| Port based traffic shaping | ● | ● | ● |
| Congestion management | SP（Strict Priority）scheduling | ● | ● | ● |
| WDRR（Weighted Deficit Round Robin）scheduling | ● | ● | ● |
| SP + WDRR mixed scheduling | ● | ● | ● |
| Congestion avoidance | TD（Tail Drop） | ● | ● | ● |
| WRED（Weighted Random Early Detection） | ● | ● | ● |
| Traffic statistics | Packet counts and bytes statistics based on traffic classification | ● | ● | ● |
| Packet counts and bytes statistics based on the color after traffic policing | ● | ● | ● |
| Forwarded and discarded packet counts and bytes statistics | ● | ● | ● |
| ECN (Explicit congestion notification) | ECN tags based on Tail Drop | ● | ● | ● |
| ECN tags based on WRED | ● | ● | ● |
| VARP | Virtual gateway | VARP（Virtual-ARP） | ● | ● | ● |
| VARP subnet | ● | ● | ● |
| Tunnel | VxLAN | Manual configure VxLAN tunnel | ● | ● | ● |
| VxLAN distributed gateway | ● | ● | ● |
| VxLAN active-active access | ● | ● | ● |
| Interconnect across Datacenters based on VxLAN | ● | ● | ● |
| L2 Protocol packet passthrough | ● | ● | ● |
| Edit DSCP in VxLan outer header | ● | ● | ● |
| BGP EVPN | ○ | ○ | ● |
| Support to enable/disable overlay split horizon per-VNI | ● | ● | ● |
| GRE Tunnel | GRE Tunnel | ● | ● | ● |
| NVGRE Tunnel | NVGRE Tunnel | ● | ● | ● |
| GENEVE Tunnel | GENEVE Tunnel | ● | ● | ● |
| DCB | DCBX | LLDP support DCBX TLV | ● | ● | ● |
| PFC | PFC | ● | ● | ● |
| IPRAN | LDP | LDP | ○ | ○ | ● |
| MPLS Forwarding | MPLS Forwarding | ○ | ○ | ● |
| VPWS | VPWS | ○ | ○ | ● |
| VPLS | VPLS | ○ | ○ | ● |
| MPLS OAM | MPLS OAM | ○ | ○ | ● |
| MPLS Stats | MPLS Stats | ○ | ○ | ● |
| L3VPN | L3VPN | ○ | ○ | ● |
| ACL | MPLS ACL | ○ | ○ | ● |
| QoS | MPLS QoS | ○ | ○ | ● |
| System Security | SSH | SSHv1/v2 | ● | ● | ● |
| RSA Key generation | ● | ● | ● |
| RADIUS | RADIUS | ● | ● | ● |
| TACAS+ | TACAS+ | ● | ● | ● |
| AAA | Authentication | ● | ● | ● |
| Authorization | ● | ● | ● |
| Accounting | ● | ● | ● |
| Dot1x | Port based dot1x | ● | ● | ● |
| MAC based dot1x | ● | ● | ● |
| Guest VLAN | ● | ● | ● |
| ACL | MAC/IP ACL | ● | ● | ● |
| Basic Mode ACL | ● | ● | ● |
| Port-group ACL | ● | ● | ● |
| VLAN-group ACL | ● | ● | ● |
| IPv6 ACL | ● | ● | ● |
| ACL UDF | ● | ● | ● |
| Time Range | ● | ● | ● |
| ARP Inspection | ARP Inspection | ● | ● | ● |
| IP Source Guard | IP Source Guard | ● | ● | ● |
| Port Security | Limitation on MAC address learning on interface | ● | ● | ● |
| VLAN Security | Limitation on MAC address learning on VLAN | ● | ● | ● |
| Control Plane Policy (COPP) | Black list/wihte list | ● | ● | ● |
| Rate limit | ● | ● | ● |
| CPU Traffic Limit | CPU Traffic Limit | ● | ● | ● |
| Prevent DDOS attack | Prevent DDOS attack (ICMP Flood/Smurf/Fraggle/LAND/SYN Flood) | ● | ● | ● |
| Login filter | Telnet/SSH ACL filtering | ● | ● | ● |
| Telnet/SSH IPv6 ACL filtering | ● | ● | ● |
| MAC Security | MacSec(802.1AE) | ● | ● | ● |
| Link-Flapping detection | Link-Flapping detection | ● | ● | ● |
| Network Management | DHCP | DHCP Server | ● | ● | ● |
| DHCP Relay | ● | ● | ● |
| DHCP Snooping | ● | ● | ● |
| DHCP Client | ● | ● | ● |
| DHCP Option82 | ● | ● | ● |
| DHCP Option252 | ● | ● | ● |
| RMON | RMON | ● | ● | ● |
| sFlow | sFlow v4/v5 | ● | ● | ● |
| IP SLA | IP SLA | ● | ● | ● |
| Latency/Buffer Monitor | Latency Monitor | ● | ● | ● |
| Buffer Monitor | ● | ● | ● |
| EFD | Elephant Flow Detection | ● | ● | ● |
| NTP | NTP（Network Time Protocol） | ● | ● | ● |
| Errdisable | Errdisable detection and recovery | ● | ● | ● |
| DNS | Static DNS Client | ● | ● | ● |
| LLDP | LLDP | ● | ● | ● |
| Terminal Services | Command Line Interface | Configurations through CLI (Command Line Interface) | ● | ● | ● |
| Help information | Banner configuration | ● | ● | ● |
| Help information in English | ● | ● | ● |
| Terminal service | Vty Terminal service | ● | ● | ● |
| Console Terminal service | ● | ● | ● |
| Configuration Management | Management interface | Inband management interface and configuration | ● | ● | ● |
| Outband management interface and configuration | ● | ● | ● |
| User privilege management | privileged user proirity and privileged commands | ● | ● | ● |
| SNMP | Network management based on SNMPv1/v2c/v3 | ● | ● | ● |
| Public and private MIB | ● | ● | ● |
| Public and private Trap | ● | ● | ● |
| WEB | Configuration and management based on WEB UI | ● | ● | ● |
| RPC-API | Configuration and management based on RPC-API | ● | ● | ● |
| SmartConfig | SmartConfig（Automatically configuration when system start） | ● | ● | ● |
| OVSDB | Configuration and management based on OVSDB | ● | ● | ● |
| system profile configuration | change the system specifications by choose different STM Profiles | ● | ● | ● |
| License control | Feature configuration based on License | ● | ● | ● |
| Restore factory default configuration | Restore factory default configuration | ● | ● | ● |
| File System | File system | File system(support directory and file management) | ● | ● | ● |
| Upload and download | Upload and download files through FTP or TFTP | ● | ● | ● |
| Upload and download files through Xmodem | ● | ● | ● |
| Debugging And Maintenance | Debug | per-module Debug features | ● | ● | ● |
| ICMP Debug | ● | ● | ● |
| BHM | Software process monitor: BHM（Beat Heart Monitor） | ● | ● | ● |
| Hardware Watch Dog | ● | ● | ● |
| Log & alarm | CPU usage display and alarm | ● | ● | ● |
| Memory usage display and alarm | ● | ● | ● |
| Device temperature、PSU、FAN、status display and alarm | ● | ● | ● |
| User operation logs | ● | ● | ● |
| Management of logs, alarms, and debugging information | ● | ● | ● |
| VCT | VCT（Virtual Cable Test） | ● | ● | ● |
| system diagnostics | Detailed Diagnostic-information collection | ● | ● | ● |
| Reboot | Manual reboot | ● | ● | ● |
| Schedule Reboot | ● | ● | ● |
| Reboot Information logging | ● | ● | ● |
| network diagnostics | Ping | ● | ● | ● |
| IPv6 Ping | ● | ● | ● |
| Traceroute | ● | ● | ● |
| mirror | Port mirror | ● | ● | ● |
| Flow mirror | ● | ● | ● |
| Remote mirror | ● | ● | ● |
| Multi-destination mirror（m:n） | ● | ● | ● |
| Use CPU as mirror source | ● | ● | ● |
| Use CPU as mirror destination and analyze packet | ● | ● | ● |
| ERSPAN | ● | ● | ● |
| CPU statistics | To CPU/From CPU packets statistics | ● | ● | ● |
| L2 Ping | layer2 network connectivity detection - L2Ping (MAC Ping/Trace) | ● | ● | ● |
| UDLD | UDLD（Unidirectional Link Detection） | ● | ● | ● |
| unidirectional | unidirectional forwarding of the fiber | ● | ● | ● |
| Loopback | port loopback | ● | ● | ● |
| hardware loopback（internal/external） | ● | ● | ● |
| System time | Time configuration | ● | ● | ● |
| Timezone | ● | ● | ● |
| Version Upgrade | system soft ware upgrade | upgrade with the local image file | ● | ● | ● |
| upgrade with the remote TFTP server | ● | ● | ● |
| Uboot upgrade | Online upgrade Uboot | ● | ● | ● |

**ACCESSORIES**

|  |  |
| --- | --- |
| **Product Name** | **Quantity** |
| Console Cable | 1PCS |
| Power Cords | 2PCS |
| Rack Mount Brackets(Front) | 2PCS |
| Rack Mount Brackets(Rear) | 2 PCS |
| Sliding Rail | 2 PCS |
| Bracket Screws | 10PCS |
| Cat5e Cable | 1PCS |
| Grounding Cable | 1PCS |
| User Manual | 1PCS |

**ORDER INFORMATION**

| **Product Name** | **Description** |
| --- | --- |
| **S4624P-4N1Z** | * 24 Port 100/1000M/2.5G/5GBase-T with PoE++(90w) L3 Managed Ethernet Switch with 1\*100Gb QSFP28 + And 4\*25G/10G Uplinks, * Ultra-Long-Distance PoE++ 300m, * 2\*600W PoE PSU (Default ) * 2\*Hot-swappable Fan Module |
| **S4624P-8N** | * 24 Port 100/1000M/2.5G/5GBase-T with PoE++(90w) L3 Managed Ethernet Switch with 8\*25G/10G Uplinks, * Ultra-Long-Distance PoE++ 300m, * 2\*600W PoE PSU (Default ) * 2\*Hot-swappable Fan Module |
| Power supply module(12V AC 250W) | AC/DC CRPS 250W/12V  185\*73.5\*40mm  Input Voltage 100-240Vac,50/60Hz  G1251 AC+HVDC Full Digital |
| Power supply module(12V DC 250W) | DC/DC CRPS 250W/12V  185\*73.5\*40mm  Input Voltage -36 -72Vdc  G1251 AC+HVDC Full Digital |
| PoE Power supply module (52V AC 600W) | AC/DC CRPS 600W/52V  185\*73.5\*40mm  Input Voltage 100-240Vac,50/60Hz  AC+HVDC Full Digital |
| PoE Power supply module (52V AC 900W) | AC/DC CRPS 900W/52V  185\*73.5\*40mm  Input Voltage 100-240Vac,50/60Hz  AC+HVDC Full Digital |
| PoE Power supply module (52V DC 1200W) | AC/DC CRPS 1200W/52V  185\*73.5\*40mm  Input Voltage 100-240Vac,50/60Hz  AC+HVDC Full Digital |
| ULD Connector | Ultra-Long-Distance Power cord connector |
| Software Linsence | FOS-EB, basic Layer3 software features,Pre installed |
| Software Linsence | FOS-MS, Full layer3 software license key |
| Software Linsence | FOS-MA, Metro features software license key |