

AP SGXQ7200-48X2Q data center 40G switch

PRODUCT OVERVIEW

AP SGXQ7200-48X2Q data center 40G switch uses advanced hardware and software architecture design, support built-in modular 1+1 redundant power supplies, 4+1 redundant fans, cross ventilation and wind direction adjustable. It has 48*10GE SFP+ ports and 6*40G QSFP+ ports

AP SGXQ7200-48X2Q is ideal for cloud computing data center server access and core switch of small to medium datacenter. For campus or other large network, AP SGXQ7200-48X2Q could also be deployed at aggregation or core layer as its high performance and reliability.

KEY FEATURES

- 48 x 10G SFP+ and 6 x 40G QSFP.
- AC+AC Power Supply.
- 1 console, 1 USB, 1 RJ45 management port
- Forwarding performance: 1071Mpps.
- Switching capacity: 1440Gbps.

KEY FEATURES AND HIGHLIGHTS

High Performance and scalability:-

With high switching capacity, AP SGXQ7200-48X2Q supports wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols.

The 10 Gigabit Ethernet connectivity of AP SGXQ7200-48X2Q is accomplished via a hot-pluggable 10 Gigabit SFP+ transceiver which supports distance up to 300 meters over multi-mode fiber and 10 to 40km over single-mode fiber (The distance depends the optical module chosen).

High Reliability:-

SG7200 series support modular 1+1 redundant power supplies and 4+1 redundant fans. Business won't be interrupted in case replacing power supplies and fans. System supports dual images. Even though the primary image was destroyed, system will still boot via backup image normally.

VSF (Virtual Switch Framework):-

As new generation data center switch, SG7200 support VSF which not only guarantees the flexibility, but also enhanced the scalability of datacenter network.

Flex Resource:-

Flex Resource is able to allocate, recover and reallocate hardware resource dynamically according to demand. It can increase the utilization of the hardware resource.



Rich L3 Features:-

AP SGXQ7200-48X2Q delivers high-performance, hardware-based IP routing. RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers. With AP SGXQ7200-48X2Q, customers could easily achieve Policy based Route (PBR), which is important when they need multi exit application.

MPLS/VPLS:-

AP SGXQ7200-48X2Q supports MPLS L3 VPN/MPLS L2 VPN(VPLS) and helps customer to construct more secure/extendable network. With max.255 VRF instances, AP SGXQ7200-48X2Q series could be deployed as P& PE devices, guarantees the variety of services.

Abundant IPv6 Support:-

AP SGXQ7200-48X2Q supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing and the need for larger addressing and higher security becomes critical, AP SGXQ7200-48X2Q will be a right product to meet the requirement. AP-SGXQ7200-48X2Q passed IPv6 form Phase II certification, which is the best proof of the application.

Strong Multicast:-

AP SGXQ7200-48X2Q supports abundant multicast features such as IGMPv1/v2/v3 snooping and fast leave and IGMPv1/v2/v3, PIM-DM, PIM-SM, PIM-SSM and even MSDP. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detection functions, AP SGXQ7200-48X2Q provides great application experience for customer.

PRODUCT SPECIFICATIONS

Hardware Specifications

| | |
|----------------------|--|
| Item | AP SGXQ7200-48X2Q |
| Physical port | 48 * 10G SFP+ and 6 * 40G QSFP |
| Management port | Console port RJ45 10/100/1000Mbps RJ45 Ethernet Management port USB2.0 Management port |
| Performance | |
| Switching Capacity | 1440Gbps |
| Forwarding Rate | 1071Mpps |
| MAC Address | 96K(standard)/32K(routee)/288K(bridge), UFT configuration, default is standard |
| ARP Table | 16k |
| Routing Table | 16k |
| Physical | |
| Dimension(W*H*D) | 433.8mm*44mm*550mm |
| Relative Humidity | 10%~90% non-condensing |
| Temperature | Working 0°C~50°C, storage -40°C~75°C |
| Power Input | AC: 100~240V,50~60 Hz |
| Power Supply | 1+1 Modular Redundant |
| Main Features | |
| L1, L2 Features | IEEE 802.3(10Base-T), IEEE 802.3u(100Base-TX), IEEE 802.3z(1000BASE-X) IEEE 802.3ab(1000Base-T), IEEE 802.3ae(10GBase), IEEE802.3x IEEE 802.3ak(10GBASE-CX4) IEEE 802.3ba |
| | 12k Jumbo Frame Port Loopback Detect LLDP and LLDP-MED UDLD 802.3ad LACP, max 128 group trunks with max 8 ports for each trunk LACP Load Balance |
| | N:1 Port Mirroring RSPAN ERSPAN |
| | IEEE802.1d(STP) IEEE802.1w(RSTP) IEEE802.1s(MSTP) Root Guard BPDU Guard BPDU Tunnel ERPS (ITU-T G.8032) |
| L3 Features | 802.1Q, 4096 VLANs MAC VLAN, VOICE VLAN, Private VLAN, Protocol VLAN, Multicast VLAN QinQ, Selective QinQ, Flexible QinQ GVRP N:1 VLAN Translation Broadcast / Multicast / Unicast Storm Control |
| | IGMP v1/v2/v3 Snooping and L2 Query ND Snooping MLDv1/v2 Snooping |
| | Static Routing, RIPv1/v2, OSPFv2, BGP4 OSPFv3, BGP4+ OSPF Multiple Process LPM Routing Policy-based Routing (PBR) for IPv4 and Ipv6 VRRP URPF, ECMP BFD |
| | IGMP v1/v2/v3, IGMP Proxy, DVMRP, PIM-DM, PIM-SM, PIM-SSM, any cast RP, MSDP Static Multicast Route Multicast Receive Control Illegal Multicast Source Detection ARP Guard, Local ARP Proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit Anti ARP Cheat, Anti ARP Scan DNS Client GRE Tunnel |

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|-----------------------------|--|
| IPv6 | 6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel ICMPv6, ND, DNSv6 IPv6 LPM Routing, IPv6 Policy-Based Routing (PBR) Ipv6 VRRPv3, IPv6 URPF, IPv6 RA RIPng, OSPFv3, BGP4+ MLD Snooping, IPv6 multicast VLAN MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QoS |
| MPLS | MPLS, VRF, LDP MPLS L3 VPN, MPLS L2 VPN(VPLS), VPWS |
| QoS | 8 Queues SWRR, SP, WRR, DWRR, SDWRR, WRED Traffic Classification Based on 802.1p CoS, ToS, DiffServ DSCP, ACL, port number Traffic Shaping PRI Mark/Remark |
| ACL | IP ACL, MAC ACL, IP-MAC ACL Standard and Expanded ACL Based on source/destination IP or MAC, IP protocol, TCP/UDP port, DSCP, ToS, IP Precedence), VLAN, Tag/Untag, CoS REDIRECT and accounting-based ACL Rules can be configured to port, VLAN Time ranged ACL |
| Security | 802.1x AAA Port, MAC based authentication Accounting based on time length and traffic Guest VLAN and Auto VLAN RADIUS for IPv4 and Ipv6 TACACS+ for IPv4 and Ipv6 MAB |
| DHCPv4/v6 | DHCP Server/Client for IPv4/IPv6 DHCP Relay/Option 82 DHCP Snooping/Option 82 |
| Traffic Monitor | sFlow Traffic Analysis |
| Security Network Management | CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6 Syslog and external Syslog server HTTP SSL SNMP MIB, SNMP TRAP FTP/TFTP/SFTP SNTP/NTP RMOM 1,2,3,9 Authentication by radius SSH v1/v2 Dual firmware images/ Configuration files 802.3ah OAM, 802.1ag OAM |
| Data Center Features | VSF (Virtual Switch Framework) |



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