

| | S5750E 28X-SI (r2) | S5750E 28X-P-SI (r2) | S5750E 52X-SI (r2) | S5750E 52X-P-SI (r2) |
|---|-----------------------|-------------------------|-----------------------|-------------------------|
| Switch Classification | | | | |
| Layer 3 Lite | ✓ | ✓ | ✓ | ✓ |
| Connectivity | | | | |
| 10/100/1000Base-T (RJ45) | 24 | - | 48 | - |
| 10/100/1000Base-T (RJ45) with PoE | - | 20 | - | 48 |
| COMBO (10/100/1000Base-T (RJ45) or 100/1000Base-X (SFP)) | - | 4 (PoE) | - | - |
| 1000/10GBase-X (SFP+) | 4 | 4 | 4 | 4 |
| Performance | | | | |
| Switch fabric speed | 128 Gb/s | 128 Gb/s | 176 Gb/s | 176 Gb/s |
| Forwarding Rate | 95 Mp/s | 95 Mp/s | 131 Mp/s | 131 Mp/s |
| Packet buffer | 1.5MB | 1.5MB | 3MB (2x1.5MB) | 3MB (2x1.5MB) |
| Jumbo Frame | 10k | 10k | 10k | 10k |
| MAC address Table shared for unicast and multicast (in 1:1 ratio) | 16K | 16K | 16K | 16K |
| Multicast MAC address Table | 4k | 4k | 4k | 1k |
| ACL Table | 1K | 1K | 1K | 512 |
| Routing Table shared for IPv4 and IPv6 (in 4:1 ratio) | 1K | 1K | 1K | 512 |
| Number of Vlan Interfaces (IP) | 1024 | 1024 | 1024 | 512 |
| CPU clock | 800MHz | 800MHz | 800MHz | 800MHz |
| Flash memory | 32MB SPI + 128MB NAND | 32MB SPI + 128MB NAND | 32MB SPI + 128MB NAND | 32MB SPI + 128MB NAND |
| RAM memory | 512MB | 512MB | 512MB | 256MB |
| Resilience and availability | | | | |
| IEEE 802.1D STP/802.1w RSTP/802.1s MSTP | ✓ | ✓ | ✓ | ✓ |
| IEEE 802.3ad LACP (max trunks / links per trunk) | 128/8 | 128/8 | 128/8 | 128/8 |
| Virtual Cable Testing | ✓ | ✓ | ✓ | ✓ |
| DDM | ✓ | ✓ | ✓ | ✓ |
| LLDP | ✓ | ✓ | ✓ | ✓ |
| VRRP | ✓ | ✓ | ✓ | ✓ |
| Loop guard | ✓ | ✓ | ✓ | ✓ |
| Traffic control | | | | |
| 802.1Q VLANs | 4k | 4k | 4k | 4k |
| Super VLAN | ✓ | ✓ | ✓ | ✓ |
| LACP algorithm of source/destination IP (load balance) | ✓ | ✓ | ✓ | ✓ |
| GVRP | ✓ | ✓ | ✓ | ✓ |
| 802.1ad Vlan Stacking (QinQ) | ✓ | ✓ | ✓ | ✓ |
| Security | | | | |
| Layer 2 MAC filtering | ✓ | ✓ | ✓ | ✓ |
| BPDU Tunnel | ✓ | ✓ | ✓ | ✓ |
| Login authentication and authorization by RADIUS and TACACS+ | ✓ | ✓ | ✓ | ✓ |
| TACACS+ accounting/ auditing | ✓ | ✓ | ✓ | ✓ |
| SSH v1/v2 | ✓ | ✓ | ✓ | ✓ |
| DHCP/DHCPv6 snooping | ✓ | ✓ | ✓ | ✓ |
| IP/IPv6 Source Guard | ✓ | ✓ | ✓ | ✓ |
| Port security | ✓ | ✓ | ✓ | ✓ |
| Quality of Service | | | | |
| 802.1p Priority Queues per Port | 8 | 8 | 8 | 8 |
| 802.1p Queuing method | ✓ | ✓ | ✓ | ✓ |
| Trusted COS/TOS/IP Precedence/DSCP/Port number | ✓ | ✓ | ✓ | ✓ |
| Broadcast Storm Control | ✓ | ✓ | ✓ | ✓ |
| Rate Limiting, port based | ✓ | ✓ | ✓ | ✓ |
| Queuing method | SP/DWRR /SDWRR | SP/DWRR /SDWRR | SP/DWRR /SDWRR | SP/DWRR /SDWRR |

Update date: 13-09-2019

DCN S5750E - Layer L3(Lite) access switches

Update date: 13-09-2019

| | S5750E 28X-SI (R2) | S5750E 28X-P-SI (R2) | S5750E 52X-SI (R2) | S5750E 52X-P-SI (R2) |
|--|------------------------------|----------------------------|----------------------------|----------------------------|
| L2/L3 - Multicast | | | | |
| Multicast VLAN | ✓ | ✓ | ✓ | ✓ |
| IGMP v1,v2, v3 | ✓ | ✓ | ✓ | ✓ |
| IGMP Query | ✓ | ✓ | ✓ | ✓ |
| IGMP Snooping (v1,v2,v3) | ✓ | ✓ | ✓ | ✓ |
| IGMP Snooping Fast Leave(v2,v3) | ✓ | ✓ | ✓ | ✓ |
| PIM-DM/SM/SSM | ✓ | ✓ | ✓ | ✓ |
| anycast RP | ✓ | ✓ | ✓ | ✓ |
| IPv6 MLD v1/v2 Snooping | ✓ | ✓ | ✓ | ✓ |
| Routing | | | | |
| RIP v1,v2 | ✓ | ✓ | ✓ | ✓ |
| OSPF v2 | ✓ | ✓ | ✓ | ✓ |
| IPv4/IPv6 Static Route | ✓ | ✓ | ✓ | ✓ |
| RIPng | ✓ | ✓ | ✓ | ✓ |
| OSPFv3 | ✓ | ✓ | ✓ | ✓ |
| BGP4+ | ✓ | ✓ | ✓ | ✓ |
| Layer 3 IPv6 | | | | |
| IPv4/IPv6 Dual Protocol Stack | ✓ | ✓ | ✓ | ✓ |
| IPv6 address | ✓ | ✓ | ✓ | ✓ |
| IPv6 Tunneling | ✓ | ✓ | ✓ | - |
| Manageability | | | | |
| Console Port | ✓ | ✓ | ✓ | ✓ |
| GUI | ✓ | ✓ | ✓ | ✓ |
| Management through console, telnet, SNMP | ✓ | ✓ | ✓ | ✓ |
| TFTP/FTP | ✓ | ✓ | ✓ | ✓ |
| Configuration backup and restore | ✓ | ✓ | ✓ | ✓ |
| Multilevel CLI | ✓ | ✓ | ✓ | ✓ |
| DNS Client | ✓ | ✓ | ✓ | ✓ |
| DHCP Client/Relay/Server | ✓ | ✓ | ✓ | ✓ |
| DHCP option 43/60/82 | ✓ | ✓ | ✓ | ✓ |
| DHCPv6 option 37/38 | ✓ | ✓ | ✓ | ✓ |
| DHCPv6 Relay/Server | ✓ | ✓ | ✓ | ✓ |
| NTP | ✓ | ✓ | ✓ | ✓ |
| RSPAN | ✓ | ✓ | ✓ | ✓ |
| ERSPAN | ✓ | ✓ | ✓ | - |
| Cluster | ✓ | ✓ | ✓ | ✓ |
| OAM EFM | ✓ | ✓ | ✓ | ✓ |
| OAM CFM | ✓ | ✓ | ✓ | ✓ |
| MIB | | | | |
| RFC 1066 TCP/IP-based MIB | ✓ | ✓ | ✓ | ✓ |
| RFC1213, 1157 SNMPv2c/v3 MIB | ✓ | ✓ | ✓ | ✓ |
| RFC1493 bridge MIB | ✓ | ✓ | ✓ | ✓ |
| RFC 2674 bridge MIB extension | ✓ | ✓ | ✓ | ✓ |
| RFC1643 ethernet MIB | ✓ | ✓ | ✓ | ✓ |
| RFC1757 RMON group 1,2,3,9 | ✓ | ✓ | ✓ | ✓ |
| RFC 2925 Remote Management MIB | ✓ | ✓ | ✓ | ✓ |
| RFC 2233 (rfc2233) - SMIv2 MIB | ✓ | ✓ | ✓ | ✓ |
| Physical | | | | |
| Dimensions (Width x Height x Depth) | 440mm x 43.6mm x 240mm | 440mm x 44mm x 320mm | 440mm x 44mm x 240mm | 440mm x 44mm x 320mm |
| Operating Temperature | 0°C~50°C | 0°C~50°C | 0°C~50°C | 0°C~50°C |
| Working humidity | 10% - 90% (non-condensing) | 10% - 90% (non-condensing) | 10% - 90% (non-condensing) | 10% - 90% (non-condensing) |
| Electrical | | | | |
| PoE Standards (IEEE 802.3af/at) | - | ✓ | - | ✓ |
| PoE Power budget | - | 370W | - | 740W |
| Power Supply | 230V AC | 230V AC | 230V AC | 230V AC + (52-58)V DC |
| Power Consumption | ≤ 30W | ≤ 440W | ≤ 50W | ≤ 897W |