

	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	64/8
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