Huawei S9700 Series Switches
Product Datasheet

HUAWEI TECHNOLOGIES CO., LTD.

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1 Introduction

The S9700 series terabit routing switches (S9700 for short) are high-end switches designed for next-generation campus networks and data centers to implement service aggregation.

Based on Huawei Versatile Routing Platform (VRP), the S9700 provides high L2/L3 switching capabilities and integrates diversified services such as MPLS VPN, hardware IPv6, desktop cloud, video conferencing, and wireless access. In addition, the S9700 also provides a variety of reliability technologies including non-stop forwarding, hardware OAM/BFD, and ring network protection. These technologies improve customers' network operation efficiency, maximize the device running time, and reduce customers' total cost of ownership (TCO).

An S9700 can be upgraded to an agile switch when it is equipped with X2S/X2E/X2H/X1E cards, the line cards with Huawei's first Ethernet Network Processor (ENP). Agile switches allow customers to make innovations on their networks.

2 Product Overview

2.1 Product Models

The S9700 series is available in three models: S9703, S9706, and S9712.

S9703

S9706

S9712

Table 2-1 lists the basic physical specifications of S9700 models.

Table 2-1 Physical specifications of S9700 models

Item	Description
LPU slots	S9703: 3 S9706: 6 S9712: 12
MCU slots	2
Fan slots	S9703: 1 S9706: 2 S9712: 4
Power slots	S9703: 2 S9706: 4 S9712: 6
Maximum port density	S9703: 144xFE, 144xGE, 144x10GE, 24x40GE, 12x100GE S9706: 288xFE, 288xGE, 288x10GE, 48x40GE, 24x100GE S9712: 576xFE, 576xGE, 576x10GE, 96x40GE, 48x100GE
Installation	• N66E or N68E cabinet S9703: not limited S9706: two chassis in each cabinet S9712: one chassis in each cabinet
Cluster switch system (CSS)	S9703: not supported S9706: CSS setup using service ports or CSS cards S9712: CSS setup using service ports or CSS cards
Maximum power consumption (fully loaded) NOTE: The heat dissipation value of a chassis equals the current power consumption of the chassis.	S9703: 1100W S9706: 2400W S9712: 4500W
Power specifications	• DC input voltage Rated voltage: -48 V DC/-60 V DC Maximum voltage range: -40 V DC to -72 V DC • AC input voltage Rated voltage: 110 V AC/220 V AC, 50/60 Hz Maximum voltage range: 90 V AC to 290 V AC; 47 Hz to 63 Hz (The output power reduces to half of the maximum output when the input voltage is in the range of 90 V AC to 175 V AC.)

Item	Description
Dimensions (W x D x H, excluding rack-mounting brackets)	• S9703: With cable management frames: 442 mm x 585 mm x 175 mm (4 U high) Without cable management frames: 442 mm x 489 mm x 175 mm (4 U high) • S9706: With cable management frames: 442 mm x 585 mm x 441.7 mm (10 U high) Without cable management frames: 442 mm x 489 mm x 441.7 mm (10 U high) • S9712: With cable management frames: 442 mm x 585 mm x 663.95 mm (15 U high) Without cable management frames: 442 mm x 489 mm x 663.95 mm (15 U high)
Weight (empty/fully loaded)	S9703: 11 kg/25 kg S9706: 29 kg/45 kg S9712: 37 kg/70 kg

2.2 Card Types

Table 2-2 lists the cards supported by the S9700.

Table 2-2 Cards supported by the S9700

Card Type	Card Name	Card Description	Functions and Features	Specifications
Main Control Unit	EH1D2SRUDC00	S9706/S9712 Main Control Unit D (Optional Clock)	The system control and management unit for the S9712 and S9706 CF card: 512 MB by default, expandable to 1 GB or 2 GB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.90 kg Maximum power consumption: 180 W (including LE0D00CKMA00)
	EH1D2SRUC000	S9706/S9712 Main Control Unit C (Optional Clock)	The system control and management unit for the S9712 and S9706 CF card: 512 MB by default, expandable to 1 GB or 2 GB The EH1D2SRUC000 can have EH1D2VS08000 installed to provide the CSS service Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 3.30 kg Maximum power consumption 132 W (including power consumption of the LE0D00CKMA00 clock daughter card and EH1D2VS08000 CSS card)

Card Type	Card Name	Card Description	Functions and Features	Specifications
Main Control Unit	EH1D2MCUAC00	Main Control Unit A (Optional Clock)	The main control unit of the S9703 CF card: 512 MB Hot swap	Dimensions (W x D x H): 194.5 mm x 426.8 mm x 35.1 mm Weight: 0.90 kg Maximum power consumption: 26 W (including LE0D00CKMA00)
Subcard on the MPU	LE0D00CKMA00	Clock Pinch Board	Consists of the clock synchronization unit (synchronous Ethernet clock) and time synchronization unit. Provides the 19.44 MHz system clock and external clock signals. The output clock signal complies with the ITU-T G.813 standard	Dimensions (W x D x H): 100.0 mm x 145.0 mm x 2.0 mm Weight: 0.10 kg Maximum power consumption: 6 W
	EH1D2VS08000	8-port 10G Cluster Switching System Service Unit (SFP+)	Provides eight 10G optical ports for data transmission and line-speed switching.	Dimensions (W x D x H): 213.0 mm x 151.8 mm x 35.1 mm Weight: 0.50 kg Maximum power consumption: 30 W
CMU	EH1D200CMU00	Centralized Monitoring Unit	Device management module: sends interface control signals for device management. Backplane interface module: provides management channels for power modules, fan modules, and communication channels between the active and standby EH1D200CMU00 cards.	Dimensions (W x D x H): 112.9 mm x 412.7 mm x 19.8 mm Weight: 0.22 kg Maximum power consumption: 1 W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2G48SEA0	48-port 100/1000BASE-X interface card (EA, SFP)-32K MAC	Provides forty-eight GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: EH1D2G48SEA0 and EH1D2G48SEC0: 4 MB EH1D2G48SFA0: 2 MB EH1D2G48SEA0and EH1D2G48SEC0: NetStream Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2G48SEA0: 2.54 kg EH1D2G48SEC0: 2.66 kg EH1D2G48SFA0: 2.60 kg Maximum power consumption: EH1D2G48SEA0: 75 W EH1D2G48SEC0: 92 W EH1D2G48SFA0: 65 W
	EH1D2G48SEC0	48-port 100/1000BASE-X interface card (EC, SFP)-128K MAC		
	EH1D2G48SFA0	48-port 100/1000BASE-X interface card (FA, SFP)-32K MAC		
	EH1D2G48TEA0	48-port 10/100/1000BASE-T interface card (EA, RJ45)-32K MAC	Provides forty-eight GE electrical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: EH1D2G48TEA0, EH1D2G48TEC0 EH1D2G48TFA0: 2 MB EH1D2G48TEA0, EH1D2G48TEC0 Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2G48TEA0: 2.50 kg EH1D2G48TEC0: 2.66 kg EH1D2G48TFA0: 2.50 kg Maximum power consumption: EH1D2G48TEA0: 62 W EH1D2G48TEC0: 68 W EH1D2G48TFA0: 48 W
	EH1D2G48TEC0	48-port 10/100/1000BASE-T interface card (EC, RJ45)-128K MAC		
	EH1D2G48TFA0	48-port 10/ 100/ 1000BASE- T interface card (FA, RJ45)- 32K MAC		

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2T36SEA0	36-port 10/100/1000BASE-T and 12-port 100/1000BASE-X interface card (EA, RJ45/SFP)-32K MAC	Provides thirty-six 10M/100M/1000M Ethernet electrical ports and twelve 100M/1000M Ethernet optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.50 kg Maximum power consumption: 62 W
	EH1D2X04XEA0	4-port 10GBASE-X interface card (EA, XFP)-32K MAC	Provides four 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB EH1D2X04XEA0 supports NetStream Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2X04XEA0: 2.16 kg Maximum power consumption: EH1D2X04XEA0: 64 W
	EH1D2X02XEA0	2-port 10GBASE-X interface card (EA, XFP)-32K MAC	Provides two 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Software feature: NetStream Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2X02XEA0: 2.14 kg Maximum power consumption: EH1D2X02XEA0: 52 W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2X08SED4	8-Port 10GBASE-X Interface	Provides two 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 8 MB Software feature: NetStream Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.5 kg Maximum power consumption: 198.1 W
	EH1D2S24CEA0	24-port 100/1000BASE-X and 8-port 10/100/1000BASE-T combo interface card (EA, SFP/RJ45)-32K MAC	The EH1D2S24CEA0 provides line-speed switching on 16 GE optical ports and 8 GE combo ports. The combo ports can be configured as either optical ports or electrical ports. The 100 Mbit/s optical/electrical ports and GE optical ports of the EH1D2S24CEA0 support the synchronous Ethernet function. When a combo port works as a GE electrical port, it does not support the synchronous Ethernet function. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.70 kg Maximum power consumption: 75 W
	EH1D2G24SEC0	24-port 100/1000BASE-X interface card (EC, SFP)-128K MAC	Provides twenty-four GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Software feature: NetStream Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2G24SEC0: 2.66 kg EH1D2G24SED0: 2.66 kg Maximum power consumption: EH1D2G24SEC0: 63 W EH1D2G24SED0: 75 W
	EH1D2G24SED0	24-port 100/1000BASE-X interface card (ED, SFP)-512K MAC		

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2X12SSA0	12-port 10GBASE-X interface card (SA, SFP+)-32K MAC	Provides twelve 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 2 MB Software feature: service port clustering and LAN/WAN switching Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.30 kg Maximum power consumption: 85 W
	EH1D2T24XEA0	24-port 10/100/1000BASE-T and 2-port 10GBASE-X interface card (EA, RJ45/XFP)-32K MAC	Provides twenty-four GE electrical ports and two 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Software feature: IP session and LAN/WAN switching Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.30 kg Maximum power consumption: 53 W
	EH1D2S24XEA0	24-port 100/1000BASE-X and 2-port 10GBASE-X interface card (EA, SFP/XFP)-32K MAC	Provides twenty-four GE optical ports and two 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 4 MB Software feature: EH1D2S24XEA0: IP session and LAN/WAN switching EH1D2S24XEC0: LAN/WAN switching Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: EH1D2S24XEA0: 2.40 kg EH1D2S24XEC0: 2.50 kg Maximum power consumption: EH1D2S24XEA0: 65 W EH1D2S24XEC0: 81 W
	EH1D2S24XEC0	24-port 100/1000BASE-X and 2-port 10GBASE-X interface card (EC, SFP/XFP)-128K MAC		

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2G24TFA0	24-port 10/100/1000BASE-T interface card (FA, RJ45)-32K MAC	Provides twenty-four 10M/100M/1000M Ethernet electrical ports for data transmission and line-speed switching. Supports Energy Efficient Ethernet (EEE), which can dynamically adjust power consumption based on network traffic volume. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 2 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.20 kg Maximum power consumption: 32 W
	EH1D2X16SSC2	16-port 10GBASE-X interface card (SC, SFP+)-128K MAC	Provides sixteen 10GE optical ports for data transmission and switching. Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 9 MB Software feature: service port clustering Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.80 kg Maximum power consumption: 131 W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2X32SSC0	32-port 10GBASE-X interface card (SC, SFP+)-128K MAC	Provides thirty-two 10GE optical ports for data transmission and switching. Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 9 MB Software feature: service port clustering Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 3.02 kg Maximum power consumption: 207 W
	ET1D2X32SX2H	32-Port 10GE SFP+ Interface Card(X2H,SFP+)	Provides thirty-two 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.3kg Maximum power consumption: 214.9W
	ET1D2X32SX2S	32-Port 10GE SFP+ Interface Card(X2S,SFP+)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.2 kg Maximum power consumption: 203.3W
	ET1D2X32SX2E	32-Port 10GE SFP+ Interface Card(X2E,SFP+)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.3kg Maximum power consumption: 213.7W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	ET1D2S24SX2S	24-Port 10GE SFP+ Interface and 8-Port GE SFP Interface Card(X2S,SFP+)	Provides twenty-four 10G Ethernet optical ports, and eight GE optical ports for data access and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.2kg Maximum power consumption: 192.3W
	ET1D2S24SX2E	24-Port 10GE SFP+ Interface and 8-Port GE SFP Interface Card(X2E,SFP+)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.3kg Maximum power consumption: 201.8W
	ET1D2S16SX2S	16-Port 10GE SFP+ Interface and 16-Port GE SFP Interface Card(X2S,SFP+)	Provides sixteen 10G Ethernet optical ports, and sixteen GE optical ports for data access and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.2kg Maximum power consumption: 182.4W
	ET1D2S16SX2E	16-Port 10GE SFP+ Interface and 16-Port GE SFP Interface Card(X2E,SFP+)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.3kg Maximum power consumption: 192.4W
	ET1D2X48SX2S	48-Port 10GE SFP+ Interface Card(X2S,SFP+)	Provides forty-eight 10GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.4kg Maximum power consumption: 258.1W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2L02QFC0	2-port 40GBASE-X optical interface card (FC, QSFP+)-128K MAC	Provides two 40GE optical ports for data transmission and line-speed switching. Allows a 40GE port to split into four 10GE ports. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 9 MB Software feature: service port clustering Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.50 kg Maximum power consumption: 88 W
	EH1D2L08QFC0	8-port 40GBASE-X interface card (FC, QSFP+)-128K MAC	Provides eight 40GE optical ports for data transmission and line-speed switching. Allows a 40GE port to split into four 10GE ports. Performs concurrent data forwarding using a distributed data plane. Eight queues on each port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 9 MB Software feature: service port clustering Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.80 kg Maximum power consumption: 157.2 W
	EH1D2L08QX2E	8-Port 40GE QSFP+ Interface Card(X2E,QSFP+)	Provides eight 40GE Ethernet optical ports for data access and line-rate switching. Allows a 40GE port to split into four 10GE ports. Performs concurrent data forwarding using a distributed data plane. Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 3.0 kg Maximum power consumption: 178.4 W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2G48TX1E	48-Port 10/100/1000BASE-T Interface Card (X1E, RJ45)	Provides forty-eight GE electrical ports for data access and line-speed switching. Forwarding speed: 48 Gbit/s Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, DRR, and PQ+DRR Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.92 kg Maximum power consumption: 120 W
	EH1D2G48SX1E	48-Port 100/1000BASE-X Interface Card (X1E, SFP)	Provides forty-eight GE optical ports for data access and line-speed switching. Forwarding speed: 48 Gbit/s Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, DRR, and PQ+DRR Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 3.04 kg Maximum power consumption: 140 W
	EH1D2S04SX1E	4-Port 10GBASE-X and 24-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface Card (X1E, RJ45/SFP/SFP+)	Provides four 10G Ethernet optical ports, sixteen 100/1000M Ethernet optical ports, and eight 10/100/1000M combo ports for data access and line-speed switching. Forwarding speed: 64 Gbit/s Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, DRR, and PQ+DRR Software feature: LAN/WAN switching Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.88 kg Maximum power consumption: 130 W
	EH1D2S08SX1E	8-Port 10GBASE-X and 8-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface Card (X1E, RJ45/SFP/SFP+)	Provides eight 10GBASE-X ports and eight 10/100/1000M combo ports for data access and line-speed switching. Forwarding speed: 88 Gbit/s Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, DRR, and PQ+DRR Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 2.84 kg Maximum power consumption: 130 W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	EH1D2X48SEC0	48-Port 10GBASE-X Interface Card (EC, SFP+)	Provides forty-eight 1000M/10G BASE-X ports for data access and switching. Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 9 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 3.42 kg Maximum power consumption: 300 W
	EH1D2C02FEE0	2-port 100GBASE-X interface card (EE, CFP)-688K MAC	Provides two 100GE optical ports for data transmission and switching. Performs concurrent data forwarding using a distributed data plane. Eight queues per port PQ, WRR, DRR, PQ+WRR, and PQ+DRR Buffer: 5 MB Hot swap	Dimensions (W x D x H): 394.7 mm x 426.8 mm x 35.1 mm Weight: 4.20 kg Maximum power consumption: 339 W
	ET1D2C04HX2S	4-Port 100GE QSFP28 Interface Card (X2S,QSFP28)	Provides two 100GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.05kg Maximum power consumption: 154.7W
	ET1D2C04HX2E	4-Port 100GE QSFP28 Interface Card (X2E,QSFP28)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.15kg Maximum power consumption: 164.8W
	ET1D2H02QX2S	2-Port 100GE QSFP28 Interface and 2-Port 40GE QSFP+ Interface Card (X2S,QSFP28)	Provides two 40GE optical ports and two 100GE optical ports for data transmission and line-speed switching. Performs concurrent data forwarding using a distributed data plane Buffer: 13.5 MB Hot swap	Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.05kg Maximum power consumption: 143.5W
	ET1D2H02QX2E	2-Port 100GE QSFP28 Interface and 2-Port 40GE QSFP+ Interface Card (X2E,QSFP28)		Dimensions (W x D x H): 394.7mm × 426.8mm × 35.1mm Weight: 3.15kg Maximum power consumption: 153.1W

Card Type	Card Name	Card Description	Functions and Features	Specifications
LPU	ACU2 NOTE: This module is supported in V200R005C00 and later versions, but is not supported in V200R007C10.	WLAN ACU2 Access Controller Unit (128 AP Control Resource Included)	Number of managed APs: Central AP: 256 Common AP and RRU: 2048 Number of MAC address entries: 32K Number of routing entries: 16K Number of ARP entries: 48K Number of ESSIDs: 8K	Board dimensions: 35.56 mm x 380.00 mm x 378.45 mm (height x width x depth) Maximum power consumption: 168 W Board weight: 3.2 kg
	ET1D2FW00S00 NOTE: This module is supported in V200R005C00 and later versions, but is not supported in V200R007C10.	NGFW Module A, with HW General Security Platform Software	NOTE: For details, see the NGFW Module Hardware Guide.	NOTE: For details, see the NGFW Module Hardware Guide.
	ET1D2FW00S01 NOTE: This module is supported in V200R005C00 and later versions, but is not supported in V200R007C10.	NGFW Module B, with HW General Security Platform Software NOTE: For details, see manuals of the NGFW card.	NOTE: For details, see the NGFW Module Hardware Guide.	NOTE: For details, see the NGFW Module Hardware Guide.
	ET1D2FW00S02 NOTE: This module is supported in V200R005C00 and later versions, but is not supported in V200R007C10.	NGFW Module C, with HW General Security Platform Software NOTE: For details, see manuals of the NGFW card.	NOTE: For details, see the NGFW Module Hardware Guide.	NOTE: For details, see the NGFW Module Hardware Guide.
	ET1D2IPS0S00 NOTE: This module is supported in V200R005C00 and later versions, but is not supported in V200R007C10.	IPS Module A, with HW General Security Platform Software	NOTE: For details, see the IPS Module Hardware Guide.	NOTE: For details, see the IPS Module Hardware Guide.

3 Power Supply

Table 3-1 lists power supplies supported by the S9700.

Table 3-1 Power supplies supported by the S9700

Device Model	Supporting PoE	1600 W DC	2200 W DC	800 W AC	2200 W AC
S9700	N	N	Y	Y	Y

The S9703 provides slots PWR1 and PWR2 for power modules. The S9706 provides slots PWR1 to PWR4 for power modules. The S9712 provides slots PWR1 to PWR6 for power modules.

The S9700 series switches support three redundancy modes of power modules: N+N, N+1, and N+0. The value of N depends on the maximum power actually required by the system. Ensure that the total maximum output power of N power modules (N x maximum output power of each power module) is larger than the maximum power actually required by the system.

For example, the maximum power required by the system is 4000 W. If two 2200 W power modules are installed in the chassis, they work in 2+0 mode. If three 2200 W power modules are installed, they work in 2+1 redundancy mode. If four 2200 W power modules are installed, they work in 2+2 redundancy mode. The system can identify the power redundancy mode, and you do not need to manually configure the power redundancy mode.

2200 W DC Power Module

A 2200 W DC power module adopts a 3 U high standard structure.

Figure 3-1 2200 W DC power module

Table 3-2 Technical specifications of a 2200 W DC power module

Item		Value
Dimensions (W x D x H)		41 mm x 393 mm x 130 mm
Weight		< 2.5 kg
Input	Rated input voltage	-48 V DC/-60 V DC
	Input voltage range	-40 V DC to -72 V DC
	Maximum input current	60 A
Output	Maximum output current	42 A
	Maximum output power	2200 W
Hot swap		Supported
Environment parameters		Operating temperature: 0℃ to 45℃ Operating relative humidity: 5% RH to 95% RH (noncondensing) Storage temperature: -40℃ to +70℃ Storage relative humidity: 5% RH to 95% RH (noncondensing)

800 W AC Power Module

An 800 W AC power module adopts a 3 U high standard structure.

Figure 3-2 800 W DC power module

Table 3-3 Technical specifications of a 880 W AC power module

Item		Value
Dimensions (W x D x H)		41 mm x 393 mm x 130 mm
Weight		< 2.5 kg
Input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 120 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (When the input voltage is in the range of 90 V AC to 175 V AC, the power module provides up to half of the maximum output power.)
	Maximum input current	5 A
Output	Maximum output current	15 A (220 V AC input)/7.5 A (110 V AC input)
	Maximum output power	800 W (220 V AC input)/400 W (110 V AC input)
Hot swap		Supported
Environment parameters		Operating temperature: 0℃ to 45℃ Operating relative humidity: 5% RH to 95% RH (noncondensing) Storage temperature: -40℃ to +70℃ Storage relative humidity: 5% RH to 95% RH (noncondensing

2200 W AC Power Module

A 2200 W AC power module adopts a 3 U high standard structure.

Figure 3-3 2200 W AC power module

Table 3-4 Technical specifications of a 2200 W AC power module

Item		Value
Dimensions (W x D x H)		41 mm x 393 mm x 130 mm
Weight		< 2.5 kg
Input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 120 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (The maximum output power reduces by a half when the input voltage is in the range of 90 V AC to 175 V AC.)
	Maximum input current	15.5 A
Output	Maximum output current	42 A (220 V AC input)/21 A (110 V AC Input)
	Maximum output power	2200 W (220 V AC input)/1100 W (110 V AC input)
Hot swap		Supported
Environment parameters		Operating temperature: 0℃ to 45℃ Operating relative humidity: 5% RH to 95% RH (noncondensing) Storage temperature: -40℃ to +70℃ Storage relative humidity: 5% RH to 95% RH (noncondensing)

4 Product Characteristics

Agile Switch, Enabling Networks to Be More Agile for Services

The S9700 series' native AC capabilities allow enterprises to build a wireless network without additional AC hardware. Each S9700 switch can manage 2,048 APs and 32,768 users. It is a core switch that provides T-bit AC capabilities, avoiding the performance bottleneck on independent AC devices. The native T-bit AC capabilities help organizations better cope with challenges in the high-speed wireless era.

The S9700 series' unified user management function authenticates both wired and wireless users, ensuring a consistent user experience no matter whether they are connected to the network through wired or wireless access devices. The unified user management function supports various authentication methods, including 802.1x, MAC address, and Portal authentication, and is capable of managing users based on user groups, domains, and time ranges. These functions control user and service management and enable the transformation from device-centered management to user-centered management.

Packet Conservation Algorithm for Internet (iPCA) changes the traditional method that uses simulated traffic for fault location. iPCA technology monitors network quality for any service flow at any network node, at any time, and without extra costs. It can detect temporary service interruptions within one second and can identify faulty ports accurately. This cutting-edge fault detection technology turns "extensive management" into "fine granular management."

Super Virtual Fabric 2.0 (SVF 2.0) technology can not only virtualize fixed-configuration switches into S9700 switch line cards but also virtualize APs as switch ports. With this virtualization technology, a physical network with core/aggregation switches, access switches, and APs can be virtualized into a "super switch", offering the simplest network management solution.

The S9700 series' Service Chain function can virtualize value-added service capabilities, such as next-generation firewall. Then these capabilities can be used by campus network entities (such as switches, routers, AC, AP, and terminals), regardless of their physical locations. Service Chain provides a more flexible value-added service deployment solution, which reduces equipment investment and maintenance costs.

The S9700 series supports IEEE 1588v2 and Synchronous Ethernet (SyncE), meeting the high-precision synchronization requirements of network systems.

Innovative CSS Technology

The S9700 switches support switch fabric clustering and service port clustering through cluster switching system (CSS) technology. CSS technology virtualizes multiple physical switches into one logical device that has higher reliability, switching efficiency, and flexibility and is easier to manage.

High reliability: Through hot backup of routes, all control plane and data plane information is backed up and forwarded continuously at Layer 3, which significantly improves the reliability and performance of the device. Inter-chassis link aggregation can also be used to eliminate single-point failure and prevent service interruption.

Flexibility: Service ports can be used as cluster ports so that cluster members can be connected through optical fibers. This expands the clustering distance substantially.

Easy management: The member switches in a cluster are managed using the same IP address, which simplifies network device and topology management, improves operation efficiency, and reduces maintenance costs.

Carrier-class Reliability

All the key components of the S9700 (including MPUs, power supply units, and fans) use a redundant design, and all modules are hot swappable to ensure stable network operation.

The S9700 supports hardware-based BFD for protocols such as static routing, RIP, OSPF, BGP, ISIS, VRRP, PIM, and MPLS. Hardware-based BFD greatly improves network reliability.

The S9700 supports High-speed Self Recovery (HSR) technology. Using Huawei's ENP cards, the S9700 implements end-to-end IP MPLS bearer network protection switchover within 50 ms, improving network reliability.

The S9700 supports hardware-based Ethernet OAM, including comprehensive EEE802.3ah, 802.1ag, and ITU-Y. 1731 implementations. Hardware-based Ethernet OAM can collect accurate network parameters, such as transmission latency and jitter, to help customers monitor network operating status in real time and to realize quick detection, location, and switching when a network fault occurs.

The S9700 supports graceful restart to realize non-stop forwarding and supports non-stop routing, ensuring reliable and high-speed operation of the entire network.

Powerful Service Processing Capability

The S9700's multi-service routing and switching platform meets requirements for service bearing at the access layer, aggregation layer, and core layer of enterprise networks. The S9700 provides wireless access, voice, video, and data services, helping enterprises build an integrated full service network with high availability and low latency.

The S9700 supports distributed Layer 2/Layer 3 MPLS VPN functions, MPLS, VPLS, HVPLS, and VLL. These functions allow enterprise users to connect to the enterprise network through VPNs.

The S9700 supports many Layer 2/Layer 3 multicast protocols such as PIM SM, PIM DM, PIM SSM, MLD, and IGMP snooping, to support multi-terminal high-definition video surveillance and video conferencing services.

The software platform provides various routing protocols and supports large routing tables for both SME networks and large-scale multinational company networks. Moreover, it supports IPv6, allowing an enterprise network to smoothly migrate to IPv6.

Powerful Network Traffic Analysis

The S9700 supports NetStream and V5/V8/V9 packet formats. The NetStream feature supports aggregation traffic template, real-time traffic collection, dynamic report generation and traffic attribute analysis, and traffic exception report. The S9700 sends traffic statistics logs to master and backup servers to avoid data loss. The S9700 can realize real-time network monitoring and the traffic analysis of the entire network. It also provides applications and analysis including fault pre-detection, effective fault rectification, fast problem handling, and security monitoring, to help customers optimize network structure and adjust service deployment.

Comprehensive Security Measures

The S9700 supports MAC security (MACSec) that enables hop-by-hop secure data transmission. Therefore, the S9700 can be applied to scenarios that pose high requirements on data confidentiality, such as government and finance sectors.

NGFW is a next-generation firewall card that can be installed on an S9700. In addition to the traditional defense functions such as firewall, identity authentication, and Anti-DDoS, the NGFW supports IPS, anti-spam, web security, and application control functions.

The S9700 provides comprehensive NAC solutions for enterprise networks. It supports MAC address authentication, portal authentication, 802.1x authentication, and DHCP snooping-triggered authentication. These authentication methods ensure security of various access modes such as dumb terminal access, mobile access, and centralized IP address allocation.

The S9700 is the industry leader in integrated security solutions. It uses a 2-level CPU protection mechanism, and protects the CPU by separating the data plane and control plane. Additionally, the S9700 defends against DoS attacks and unauthorized access, and prevents control plane overloading.

Comprehensive IPv6 Solution

The S9700 software and hardware platforms support IPv6 and the S9700 has been granted an IPv6 Network Access License and the IPv6 Ready Logo Phase 2 Certification by the Ministry of Industry and Information Technology.

The S9700 supports various IPv6 unicast routing protocols (such as IPv6 static routing, RIPng, OSPFv3, IS-ISv6, and BGP4+) and multicast features (such as MLD v1/v, MLD snooping, PIM-SM/DMv6, and PIM-SSMv6), which provides customers with comprehensive IPv4/IPv6 solutions.

The S9700 supports various IPv4-to-IPv6 technologies: IPv6 manual tunnels, 6-to-4 tunnel, ISATAP tunnel, GRE tunnel, and IPv4-compatible automatic tunnels. These technologies ensure smooth transition from an IPv4 network to an IPv6 network.

Innovative Energy Conservation Design

The S9700 uses a rotating ventilation channel to improve heat dissipation efficiency. In addition, it uses a variable current chip to dynamically adjust the power according to traffic. Ports can go into a sleeping state when there is no traffic to reduce power consumption.

The S9700 uses intelligent fan-speed adjustment technology. The fan module monitors and controls the temperature in each zone, and adjusts the fan speed of in each zone individually. This technology extends the service life of each fan and reduces power consumption.

The S9700 supports IEEE 802.3az Energy Efficient Ethernet, provides a low-power idle mode for the PHY line card, and switches to a lower power state during low link utilization.

5 Product Specifications

5.1 Product Specifications

Table 5-1 Product specifications of the S9700

Item	S9703	S9706	S9712
Switching capacity	2.88/5.76 Tbit/s	6.72/14.72 Tbit/s	8.64/18.56 Tbit/s
Packet forwarding rate	2160 Mpps	2880/5040 Mpps	3840/6480 Mpps
Service slots	3	6	12
Wireless network management	Native AC		
	AP access control, AP region management, and AP profile management		
	Radio profile management, uniform static configuration, and centralized dynamic management		
	Basic WLAN services, QoS, security, and user management		
User management	Unified user management		
	802.1x, MAC address, and Portal authentication		
	Traffic- and time-based accounting		
	User authorization based on user groups, domains, and time ranges		
iPCA quality awareness	Marking real service packets to obtain real-time count of dropped packets and packet loss ratio		
	Counting number of dropped packets and packet loss ratio on devices and L2/L3 networks		
SVF 2.0 vir tualization	Virtualizing access switches (ASs) and APs into one logical device to simplify management and maintenance		
	Two layers of ASs allowed in an SVF system		
	Third-party devices allowed between SVF parent and clients		
VLAN	Access, trunk, and hybrid interfaces supported		
	Default VLAN		
	VLAN switching		
	QinQ and selective QinQ		
	MAC address-based VLAN assignment		
MAC address	Automatic learning and aging of MAC addresses		
	Static, dynamic, and blackhole MAC address entries		
	Packet filtering based on source MAC addresses		
	MAC address limiting based on ports and VLANs		

Item	S9703	S9706	S9712
STP/ERPS	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)		
	BPDU protection, root protection, and loop protection		
	BPDU tunnel		
	ERPS (G.8032)		
IP routing	IPv4 routing protocols, such as RIP, OSPF, BGP, and IS-IS		
	IPv6 dynamic routing protocols, such as, RIPng, OSPFv3, ISISv6, and BGP4+		
Multicast	IGMP v1/v2/v3, IGMPv1/v2/v3 snooping		
	PIM-SM, PIM-DM, PIM-SSM		
	MSDP, MBGP		
	Fast leave		
	Multicast traffic control		
	Multicast querier		
	Multicast protocol packet suppression		
	Multicast CAC		
	Multicast ACL		
MPLS	MPLS functions		
	MPLS OAM		
	MPLS TE		
	Supports MPLS VPN/VLL/VPLS		
Reliability and availability	LACP and E-Trunk		
	VRRP and BFD for VRRP		
	BFD for BGP/IS-IS/OSPF/static route		
	NSR, NSF, and GR for BGP/IS-IS/OSPF/LDP		
	TE FRR and IP FRR		
	Ethernet OAM (IEEE 802.3ah and 802.1ag) (hardware-based)		
	HSR		
	ITU-Y.1731		
	DLDP		

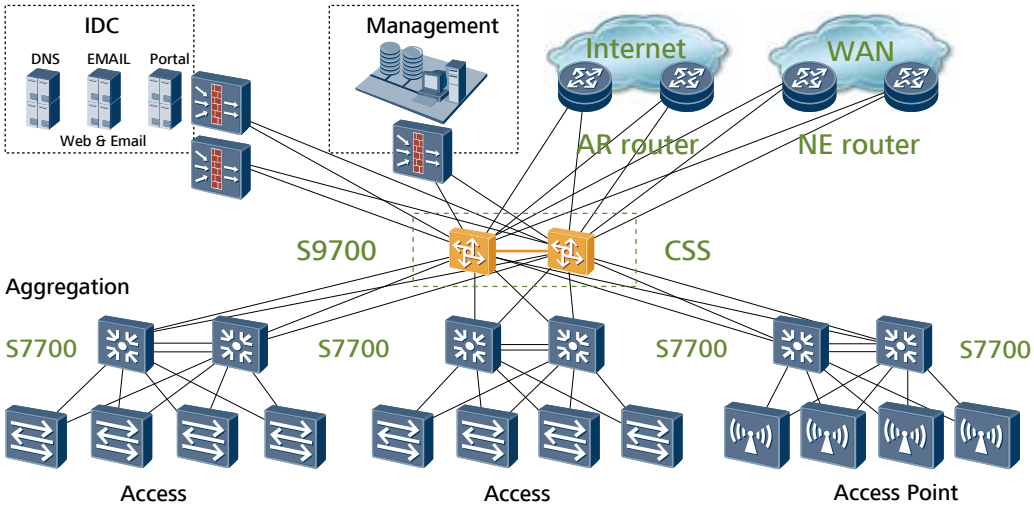
Item	S9703	S9706	S9712
Reliability and availability	• S9703: Mean time between failures (MTBF): 33.8 years Mean time to repair (MTTR): 64 minutes Availability: 0.99999964 • S9706: MTBF: 24.2 years MTTR: 52 minutes Availability: 0.99999959 • S9712: MTBF: 24.1 years MTTR: 52 minutes Availability: 0.99999959		
QoS	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority		
	Actions of ACL, CAR, re-mark, and schedule		
	Queue scheduling algorithms, such as SP, WRR, DRR, SP+WRR, and SP+DRR		
	Congestion avoidance mechanisms, such as WRED and tail drop		
	H-QoS		
	Traffic shaping		
Network synchronization	Ethernet synchronization		
	1588v2		
Configuration and maintenance	Console, Telnet, and SSH login		
	Network management protocols, such as SNMPv1/v2/v3		
	File uploading and downloading using FTP and TFTP		
	BootROM upgrade and remote upgrade		
	Hot patches		
	User operation logs		
Security and management	802.1x authentication and Portal authentication		
	MACsec		
	NAC		
	RADIUS and HWTACACS authentication for login users		
	Command line authority control based on user levels, preventing unauthorized users from using commands		
	Defense against DoS attacks, TCP SYN Flood attacks, UDP Flood attacks, broadcast storms, and heavy traffic attacks		
	1K CPU queues		
	Ping and traceroute functions based on ICMP packets		
	Remote network monitoring		

Item	S9703	S9706	S9712
Value-added services	Firewall		
	NAT		
	NetStream		
	IPSec		
	Load balancing		
	Wireless AC		
	IPS		
Interoperability	Interoperable with VBST (compatible with PVST/PVST+/RPVST)		
	Interoperable with LNP (similar to DTP)		
	Interoperable with VCMP (similar to VTP)		
Energy saving	Supports IEEE 802.3az: Energy Efficient Ethernet (EEE)		
Noise at normal temperature (acoustic power)	≤ 72 dBA		
EMC compliance	CISPR22 Class A CISPR24 EN55022 Class A EN50024 ETSI EN 300 386 Class A CFR 47 FCC Part 15 Class A ICES 003 Class A AS/NZS CISPR22 Class A VCCI Class A IEC61000-6-2 IEC61000-6-4 IEC61000-4-2 ITU-T K 20 ITU-T K 21 ITU-T K 44 CNS13438 CLASS A KN 22 CLASS A		
Environmental standards compliance	RoHS REACH WEEE		
Safety standards compliance	IEC 60950-1 EN 60950-1 UL 60950-1 CSA C22.2 No 60950-1 AS/NZS 60950.1 BS EN 60950-1		

6 Product Application

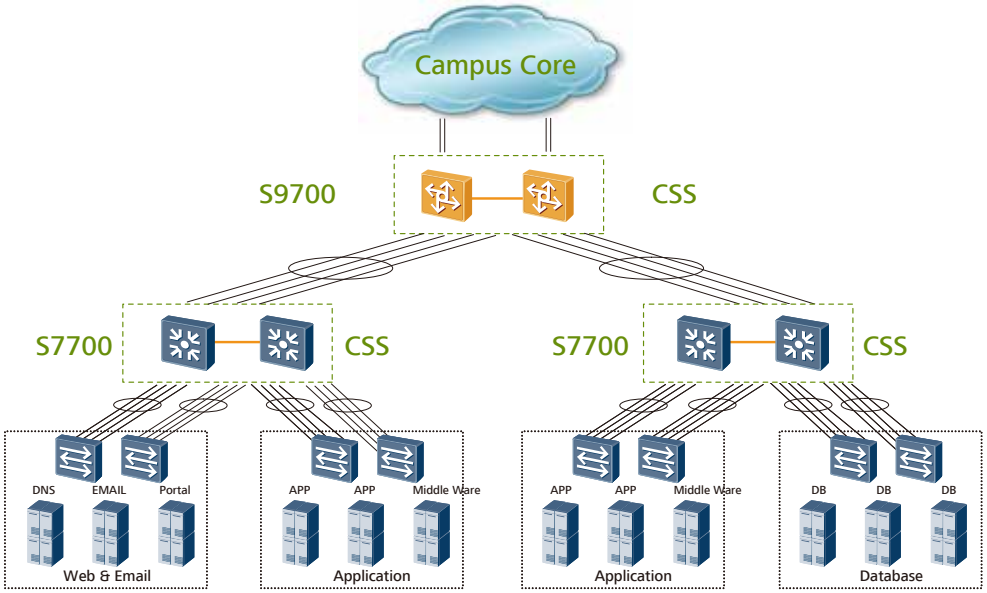
1 Application in Large-Sized Campus Networks

The S9700 can be used to build highly reliable, scalable, and manageable high performance enterprise campus networks. Its capability to switch IPv4/IPv6/MPLS services at line speeds enables it to provide high-density 10G throughput as a core or aggregation node on an enterprise campus network. The S9700 supports Native AC and can provide WLAN access while working as a core switch, reducing the network investment. It also supports hardware CPU queues to protect the enterprise core network against DDoS attacks and other security threats.



2 Applications in Large-Scale Data Centers

The S9700 functions as a high-density 10G core or aggregation node in large-scale data centers, helping enterprises build highly reliable, non-blocking, and virtualized data center networks. The S9700 employs various technologies to ensure uninterrupted services, including IP FRR, hardware-level BFD, NSR, NSF, VRRP, E-Trunk. Using the CSS and integrated load balancing solutions, the S9700 improves the network efficiency and reduces network maintenance costs.



7 Safety and Regulatory Compliance

Table 7-1 lists the safety and regulatory compliance of S9700.

Table 7-1 S9700 safety and regulatory compliance

Certification Category	Description
Safety	IEC 60950-1 EN 60950-1 UL 60950-1 CSA C22.2 No 60950-1 AS/NZS 60950.1 BS EN 60950-1
Electromagnetic Compatibility (EMC)	CISPR22 Class A CISPR24 EN55022 Class A EN55024 ETSI EN 300 386 Class A CFR 47 FCC Part 15 Class A ICES 003 Class A AS/NZS CISPR22 Class A VCCI Class A IEC61000-6-2 IEC61000-6-4 IEC61000-4-2 ITU-T K 20 ITU-T K 21 ITU-T K 44 CNS13438 CLASS A KN 22 CLASS A
Environment	RoHS REACH WEEE

NOTE:

- EMC: electromagnetic compatibility
- CISPR: International Special Committee on Radio Interference
- EN: European Standard
- ETSI: European Telecommunications Standards Institute
- CFR: Code of Federal Regulations
- FCC: Federal Communication Commission
- IEC: International Electrotechnical Commission
- AS/NZS: Australian/New Zealand Standard

- VCCI: Voluntary Control Council for Interference
- UL: Underwriters Laboratories
- CSA: Canadian Standards Association
- IEEE: Institute of Electrical and Electronics Engineers
- RoHS: restriction of the use of certain hazardous substances
- REACH: Registration Evaluation Authorization and Restriction of Chemicals
- WEEE: Waste Electrical and Electronic Equipment

8 MIB Compliance

8.1 Supported MIBs

Table 8-1 lists the MIBs supported by S9700.

Table 8-1 S9700 MIBs

Category	MIB	
Public MIB	BGP4-MIB	NOTIFICATION-LOG-MIB
	BRIDGE-MIB	NQA-MIB
	DISMAN-NSLOOKUP-MIB	OSPF-MIB
	DISMAN-PING-MIB	OSPF-TRAP-MIB
	DISMAN-TRACEROUTE-MIB	P-BRIDGE-MIB
	ENTITY-MIB	PIM-BSR-MIB
	EtherLike-MIB	PIM-STD-MIB
	IF-MIB	Q-BRIDGE-MIB
	IP-FORWARD-MIB	RFC1213-MIB
	IPMCAST-MIB	RIPv2-MIB
	IPv6-ICMP-MIB	RMON2-MIB
	IPv6-MIB	RMON-MIB
	IPv6-TCP-MIB	SAVI-MIB
	IPv6-UDP-MIB	SNMP-FRAMEWORK-MIB
	ISIS-MIB	SNMP-MPD-MIB
	LAG-MIB	SNMP-NOTIFICATION-MIB
	LLDP-EXT-DOT1-MIB	SNMP-TARGET-MIB
	LLDP-EXT-DOT3-MIB	SNMP-USER-BASED-SM-MIB
	LLDP-MIB	SNMPv2-MIB
	MGMD-STD-MIB	SNMP-VIEW-BASED-ACM-MIB
	MPLS-FTN-STD-MIB	TCP-MIB
	MPLS-L3VPN-STD-MIB	UDP-MIB
	MPLS-LDP-GENERIC-STD-MIB	VRRP-MIB
	MPLS-LDP-STD-MIB	VRRPv3-MIB
	MPLS-LSR-STD-MIB	
	MPLS-TE-STD-MIB	
	MSDP-MIB	

Category	MIB	
Huawei-proprietary MIB	HUAWEI-AAA-MIB	HUAWEI-IPPOOL-MIB
	HUAWEI-ACL-MIB	HUAWEI-IPSESSION-MIB
	HUAWEI-ALARM-MIB	HUAWEI-IPV6-MIB
	HUAWEI-ALARM-RELIABILITY-MIB	HUAWEI-ISOLATE-MIB
	HUAWEI-BASE-TRAP-MIB	HUAWEI-KOMPELLA-MIB
	HUAWEI-BFD-MIB	HUAWEI-L2IF-MIB
	HUAWEI-BGP-VPN-MIB	HUAWEI-L2MAM-MIB
	HUAWEI-BRAS-RADIUS-MIB	HUAWEI-L2MULTICAST-MIB
	HUAWEI-BRAS-SRVCFG-EAP-MIB	HUAWEI-L2VLAN-MIB
	HUAWEI-BRAS-SRVCFG-STATICUSER-MIB	HUAWEI-L2VPN-MIB
	HUAWEI-BULKSTAT-MIB	HUAWEI-LDT-MIB
	HUAWEI-CBQOS-MIB	HUAWEI-LSP-PING-TRACE-TRAP-MIB
	HUAWEI-CCC-MIB	HUAWEI-LINE-MIB
	HUAWEI-CONFIG-MAN-MIB	HUAWEI-LLDP-MIB
	HUAWEI-CLOCK-MIB	HUAWEI-MAC-AUTHEN-MIB
	HUAWEI-CPU-MIB	HUAWEI-MDNS-RELAY-MIB
	HUAWEI-DAD-MIB	HUAWEI-MEMORY-MIB
	HUAWEI-DC-TRAP-MIB	HUAWEI-MFF-MIB
	HUAWEI-DATASYNC-MIB	HUAWEI-MFLP-MIB
	HUAWEI-DEVICE-MIB	HUAWEI-MGMD-STD-MIB
	HUAWEI-DHCPR-MIB	HUAWEI-MPLS-EXTEND-MIB
	HUAWEI-DHCPS-MIB	HUAWEI-MPLSLDP-MIB
	HUAWEI-DHCP-SNOOPING-MIB	HUAWEI-MPLSLSR-EXT-MIB
	HUAWEI-DIE-MIB	HUAWEI-MPLSOAM-MIB
	HUAWEI-DNS-MIB	HUAWEI-MSDP-MIB
	HUAWEI-DLDP-MIB	HUAWEI-MSTP-MIB
	HUAWEI-ERPS-MIB	HUAWEI-MULTICAST-MIB
	HUAWEI-ERRORDOWN-MIB	HUAWEI-NETSTREAM-MIB
	HUAWEI-ENERGYMNGT-MIB	HUAWEI-NTPV3-MIB
	HUAWEI-EASY-OPERATION-MIB	HUAWEI-OSPFV2-MIB
	HUAWEI-ENTITY-EXTENT-MIB	HUAWEI-OSPFV3-MIB
	HUAWEI-ENTITY-TRAP-MIB	HUAWEI-PERFORMANCE-MIB
	HUAWEI-ETHARP-MIB	HUAWEI-PIM-BSR-MIB
	HUAWEI-ETHOAM-MIB	HUAWEI-PIM-STD-MIB
	HUAWEI-E-TRUNK-MIB	HUAWEI-PERFMGMT-MIB
	HUAWEI-FLASH-MAN-MIB	HUAWEI-POE-MIB
	HUAWEI-FTP-MIB	HUAWEI-PORT-MIB
	HUAWEI-FWD-RES-TRAP-MIB	HUAWEI-PORTAL-MIB
	HUAWEI-GARP-APP-MIB	HUAWEI-PWE3-MIB
	HUAWEI-GTSM-MIB	HUAWEI-PWE3-TNL-MIB
	HUAWEI-HGMP-MIB	HUAWEI-QINQ-MIB
	HUAWEI-HQOS-MIB	HUAWEI-RIPv2-EXT-MIB
	HUAWEI-HWTACACS-MIB	HUAWEI-RM-EXT-MIB
	HUAWEI-IF-EXT-MIB	HUAWEI-RRPP-MIBHUAWEI-RSVPTE-MIB
	HUAWEI-INFOCENTER-MIB	HUAWEI-SECURITY-MIB
	HUAWEI-IPFPM-MIB	HUAWEI-SEP-MIB
	HUAWEI-IPLPM-MIB	HUAWEI-SMARTLINK-MIB
	HUAWEI-IPMCAST-MIB	HUAWEI-SNMP-EXT-MIB

Category	MIB	
Huawei-proprietary MIB	HUAWEI-STACK-MIB	HUAWEI-VPLS-TNL-MIB
	HUAWEI-SWITCH-L2MAM-EXT-MIB	HUAWEI-VPN-DIAGNOSTICS-MIB
	HUAWEI-SWITCH-SRV-TRAP-MIB	HUAWEI-VRRP-EXT-MIB
	HUAWEI-SYS-MAN-MIB	HUAWEI-WLAN-DEVICE-MIB
	HUAWEI-TASK-MIB	HUAWEI-WLAN-QOS-MIBB
	HUAWEI-TCP-MIB	HUAWEI-WLAN-RADIO-MIB
	HUAWEI-TFTPC-MIB	HUAWEI-WLAN-SECURITY-MIB
	HUAWEI-TRNG-MIB	HUAWEI-WLAN-SERVICE-MIB
	HUAWEI-TUNNEL-MIB	HUAWEI-WLAN-SYS-MIB
	HUAWEI-TUNNEL-TE-MIB	HUAWEI-WLAN-UPDATE-MIB
	HUAWEI-UNIMNG-MIB	HUAWEI-WLAN-WIDS-MIB
	HUAWEI-USC-MIB	HUAWEI-XQOS-MIB
	HUAWEI-VPLS-EXT-MIB	

8.2 Standards Compliance

Table 8-2 lists the standards the S9700 complies with.

Table 8-2 S9700 standards compliance

Standard Organization	Standard or Protocol
IETF	RFC 768 User Datagram Protocol (UDP)
	RFC 792 Internet Control Message Protocol (ICMP)
	RFC 793 Transmission Control Protocol (TCP)
	RFC 826 Ethernet Address Resolution Protocol (ARP)
	RFC 854 Telnet Protocol Specification
	RFC 951 Bootstrap Protocol (BOOTP)
	RFC 959 File Transfer Protocol (FTP)
	RFC 1058 Routing Information Protocol (RIP)
	RFC 1112 Host extensions for IP multicasting
	RFC 1157 A Simple Network Management Protocol (SNMP)
	RFC 1256 ICMP Router Discovery
	RFC 1305 Network Time Protocol Version 3 (NTP)
	RFC 1349 Internet Protocol (IP)
	RFC 1493 Definitions of Managed Objects for Bridges
	RFC 1542 Clarifications and Extensions for the Bootstrap Protocol
	RFC 1643 Ethernet Interface MIB
	RFC 1757 Remote Network Monitoring (RMON)
	RFC 1901 Introduction to Community-based SNMPv2
	RFC 1902-1907 SNMP v2
	RFC 1981 Path MTU Discovery for IP version 6
	RFC 2131 Dynamic Host Configuration Protocol (DHCP)
	RFC 2328 OSPF Version 2

Standard Organization	Standard or Protocol
IETF	RFC 2453 RIP Version 2 RFC 2460 Internet Protocol, Version 6 Specification (IPv6) RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) RFC 2462 IPv6 Stateless Address Auto configuration RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) RFC 2474 Differentiated Services Field (DS Field) RFC 2740 OSPF for IPv6 (OSPFv3) RFC 2863 The Interfaces Group MIB RFC 2597 Assured Forwarding PHB Group RFC 2598 An Expedited Forwarding PHB RFC 2571 SNMP Management Frameworks RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 3046 DHCP Option82 RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3) RFC 3513 IP Version 6 Addressing Architecture RFC 3579 RADIUS Support For EAP RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 4760 Multiprotocol Extensions for BGP-4 draft-grant-tacacs-02 TACACS+
IEEE	IEEE 802.1D Media Access Control (MAC) Bridges IEEE 802.1p Virtual Bridged Local Area Networks IEEE 802.1Q Virtual Bridged Local Area Networks IEEE 802.1ad Provider Bridges IEEE 802.2 Logical Link Control IEEE Std 802.3 CSMA/CD IEEE Std 802.3ab 1000BASE-T specification IEEE Std 802.3ad Aggregation of Multiple Link Segments IEEE Std 802.3ae 10GE WEN/LAN Standard IEEE Std 802.3x Full Duplex and flow control IEEE Std 802.3z Gigabit Ethernet Standard IEEE802.1ax/IEEE802.3ad Link Aggregation IEEE 802.3ah Ethernet in the First Mile. IEEE 802.1ag Connectivity Fault Management IEEE 802.1ab Link Layer Discovery Protocol IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE802.1x Port based network access control protocol
ITU	ITU SG13 Y.17ethoam ITU SG13 QoS control Ethernet-Based IP Access ITU-T Y.1730 ETH OAM performance monitor ITU-T Y.1731 ETH OAM performance monitor ITU-T Y.1710 Requirements for OAM functionality for MPLS networks ITU-T Y.1711 Operation and maintenance mechanism for MPLS networks ITU-T Y.1720 Protection switching for MPLS networks

Standard Organization	Standard or Protocol
ISO	ISO 10589 IS-IS Routing Protocol
MEF	MEF 2 Requirements and Framework for Ethernet Service Protection MEF 9 Abstract Test Suite for Ethernet Services at the UNI MEF 10.2 Ethernet Services Attributes Phase 2 MEF 11 UNI Requirements and Framework MEF 13 UNI Type 1 Implementation Agreement MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements MEF 17 Service OAM Framework and Requirements MEF 20 UNI Type 2 Implementation Agreement MEF 23 Class of Service Phase 1 Implementation Agreement Xmodem XMODEM/YMODEM Protocol Reference

NOTE:

The listed standards and protocols are fully or partially supported by Huawei switches. For details, see the HUAWEI Sx700 Switch Standard and Protocol Compliance List or contact your local Huawei sales office.

9 Ordering Information

BIDI-SFP+ optical transceivers	
LE2BN66ED000	N66E DC Assembly Rack (Eight 60A Outputs, maximum 2200W per output, 600 x 600 x 2200mm)
LE0BN66EAC	N66E AC Assembly Rack (Eight 10A Outputs, maximum 1600W per output, 600 x 600 x 2200mm)
LE2BN66EA000	N66E AC Assembly Rack (Four 16A Outputs, maximum 2500W per output, 600 x 600 x 2200mm)
EH1BS9703E00	S9703 assembly chassis
EH1BS9706E00	S9706 assembly chassis
EH1BS9712E00	S9712 assembly chassis
EH1M00FBX000	Wide Voltage 74 Fan Box
Monitoring Unit (Sustain FCC)	
EH1D200CMU0	Centralized monitoring unit
MPU	
EH1D2MCUAC00	S9703 MCUA-clock (Sustain FCC)
EH1D2SRUDC00	S9706/S9712 SRUD-clock

EH1D2SRUC000	S9706/S9712, Main Control Unit C, Option clock
100M/1000M Ethernet Electrical Interface Card (Sustain FCC)	
EH1D2T24XEA0	24-port 100M/1000M Ethernet electrical interface and 2-port 10G Ethernet optical interface card (EA, RJ45/XFP)
EH1D2G24TFA0	24-port 100M/1000M Ethernet electrical interface card (FA, RJ45)
EH1D2G48TEA0	48-port 100M/1000M Ethernet electrical interface card (EA, RJ45)
EH1D2G48TFA0	48-port 100M/1000M Ethernet electrical interface card (FA, RJ45)
EH1D2G48TEC0	48-port 100M/1000M Ethernet electrical interface card (EC, RJ45)
EH1D2G48TX1E	48-Port 10/100/1000BASE-T Interface Card(X1E, RJ45)
100M/1000M Ethernet Optical Interface Card (Sustain FCC)	
EH1D2G24SEC0	24-port 100M/1000M Ethernet optical interface card (EC, SFP)
EH1D2G24SED0	24-port 100M/1000M Ethernet optical interface card (ED, SFP)
EH1D2S24XEA0	24-port 100M/1000M Ethernet optical interface and 2-port 10GE Ethernet optical interface card (EA, SFP/XFP)
EH1D2S24XEC0	24-port 100M/1000M Ethernet optical interface and 2-port 10G Ethernet optical interface card (EC, SFP/XFP)
EH1D2G48SEA0	48-port 100M/1000M Ethernet optical interface card (EA, SFP)
EH1D2G48SFA0	48-port 100M/1000M Ethernet optical interface card (FA, SFP)
EH1D2G48SEC0	48-port 100M/1000M Ethernet optical interface card (EC, SFP)
EH1D2G48SX1E	48-Port 100/1000BASE-X Interface Card (X1E, SFP)
100M/1000M Ethernet Combo Interface Card (Sustain FCC)	
EH1D2T36SEA0	36-port 100 M/1000 M Ethernet electrical interface and 12-port 100 M/1000 M optical interface card (EA, RJ45/SFP)
10GE Optical Interface Card	
EH1D2X02XEA0	2-port 10GE optical interface card (EA, XFP)
EH1D2X04XEA0	4-port 10GE optical interface card (EA, XFP)
EH1D2S04SX1E	4-port 10GBASE-X and 24-port 100/1000BASE-X and 8-port 10/100/1000BASE-T combo interface card (X1E, RJ45/SFP/SFP+)
EH1D2X08SED4	8-port 10GE optical interface card (ED, SFP+)
EH1D2S08SX1E	8-Port 10GBASE-X and 8-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface (X1E, RJ45/SFP/SFP+)
EH1D2X12SSA0	12-port 10GE optical interface card (SA, SFP+)

EH1D2X16SSC2	16-Port 10GBASE-X Interface Card (SC,SFP+)
EH1D2X32SSC0	32-Port 10GBASE-X Interface Card (SC,SFP+)
EH1D2X48SEC0	48-port 10GBASE-X interface card (EC,SFP+)
ET1D2X32SX2H	32-Port 10GE SFP+ Interface Card(X2H,SFP+)
ET1D2X32SX2S	32-Port 10GE SFP+ Interface Card(X2S,SFP+)
ET1D2X32SX2E	32-Port 10GE SFP+ Interface Card(X2E,SFP+)
ET1D2S24SX2S	24-Port 10GE SFP+ Interface and 8-Port GE SFP Interface Card(X2S,SFP+)
ET1D2S24SX2E	24-Port 10GE SFP+ Interface and 8-Port GE SFP Interface Card(X2E,SFP+)
ET1D2S16SX2S	16-Port 10GE SFP+ Interface and 16-Port GE SFP Interface Card(X2S,SFP+)
ET1D2S16SX2E	16-Port 10GE SFP+ Interface and 16-Port GE SFP Interface Card(X2E,SFP+)
ET1D2X48SX2S	48-Port 10GE SFP+ Interface Card(X2S,SFP+)
40GE Optical Interface Card(Sustain FCC)	
EH1D2L02QFC0	2-port 40GBASE-X interface card(FC, QSFP+)
EH1D2L08QFC0	8-port 40GBASE-X interface card (FC, QSFP+)
EH1D2L08QX2E	8-Port 40GE QSFP+ Interface Card(X2E,QSFP+)
100GE optical interface cards	
EH1D2C02FEE0	2-Port 100GBASE-X Interface Card(EE,CFP)
ET1D2C04HX2S	4-Port 100GE QSFP28 Interface Card(X2S,QSFP28)
ET1D2C04HX2E	4-Port 100GE QSFP28 Interface Card(X2E,QSFP28)
ET1D2H02QX2S	2-Port 100GE QSFP28 Interface and 2-Port 40GE QSFP+ Interface Card(X2S,QSFP28)
ET1D2H02QX2E	2-Port 100GE QSFP28 Interface and 2-Port 40GE QSFP+ Interface Card(X2E,QSFP28)
Service Subcards	
EH1D2VS08000	8-Port 10G Cluster Switching System Service Unit (SFP+)
LE0D00CKMA00	Clock Pinch Board-1588
Service Processing Unit (Sustain FCC)	
ET1D2FW00S00	NGFW Module A, with HW General Security Platform Software
ET1D2FW00S01	NGFW Module B, with HW General Security Platform Software
ET1D2FW00S02	NGFW Module C, with HW General Security Platform Software
ET1D2IPS0S00	IPS Module A, with HW General Security Platform Software
ACU2	WLAN ACU2 Access Controller Unit (128 AP Control Resource Included)
Optical Module	

FE-SFP Optical Module	
S-SFP-FE-LH40-SM1310	Optical module -eSFP-FE- single-mode modules (1310 nm, 40 km, LC)
S-SFP-FE-LH80-SM1550	Optical module -eSFP-FE- single-mode modules (1550 nm, 80 km, LC)
SFP-FE-SX-MM1310	Optical transceiver, SFP, 100M/155M, Multi-mode Module(1310nm,2km,LC)
eSFP-FE-LX-SM1310	Optical transceiver, eSFP, 100M/155M, Single-mode Module(1310nm,15km,LC)
GE-SFP Optical Module	
SFP-1000BaseT	Electrical module-SFP-GE- electrical interface modules (100 m, RJ45)
eSFP-GE-SX-MM850	Optical module -eSFP-GE- multi-mode modules (850 nm, 0.5 km, LC)
SFP-GE-LX-SM1310	Optical module -SFP-GE- single-mode modules (1310 nm, 10 km, LC)
S-SFP-GE-LH40-SM1310	Optical module -eSFP-GE- single-mode modules (1310 nm, 40 km, LC)
S-SFP-GE-LH40-SM1550	Optical module -eSFP-GE- single-mode modules (1550 nm, 40 km, LC)
S-SFP-GE-LH80-SM1550	Optical module -eSFP-GE- single-mode modules (1550 nm, 80 km, LC)
eSFP-GE-ZX100-SM1550	Optical module -ESFP-GE- single-mode modules (1550 nm, 100 km, LC)
10GE-XFP Optical Module	
XFP-SX-MM850	Optical module -XFP-10G- multi-mode modules (850 nm, 0.3 km, LC)
XFP-STM64-LX-SM1310	Optical module -XFP-10G- single-mode modules (1310 nm, 10 km, LC)
XFP-STM64-LH40-SM1550	Optical module -XFP-10G- single-mode modules (1550 nm, 40 km, LC)
XFP-STM64-SM1550-80km	Optical module -XFP-10G- single-mode modules (1550 nm, 80 km, LC)
10GE-SFP+ Optical Module	
OMXD30000	Optical module, SFP+, 10G, multi-mode module (850 nm, 0.3 km, LC)
OSX010000	Optical module, SFP+, 10G, single-mode module (1310 nm, 10 km, LC)
OSX040N01	Optical module, SFP+, 10G, single-mode module (1550 nm, 40 km, LC)
OSXD22N00	Optical module, SFP+, 10 G, multi-mode module (1310 nm, 0.22 km, LC, LRM)
SFP-10G-USR	Optical Transceiver, SFP+, 10G,Multi-mode Module (850nm, 0.1km,LC)
SFP-10G-ZR	Optical Transceiver, SFP+, 10G, Single-mode Module (1550nm, 80km, LC)
SFP-10G-ZCW1571	Optical Transceiver, SFP+, 10G, Single-mode Module (CWDM, 1571nm, 70km, LC)
SFP-10G-ZCW1591	Optical Transceiver, SFP+, 10G, Single-mode Module (CWDM, 1591nm, 70km, LC)
SFP-10G-ZCW1611	Optical Transceiver, SFP+, 10G, Single-mode Module (CWDM, 1611nm, 70km, LC)
SFP-10G-iLR	Optical Transceiver,SFP+,9.8G,Single-mode Module (1310nm,1.4km,LC)

40GE-QSFP/CFP Optical Module	
QSFP-40G-iSR4	40GBase-iSR4 Optical transceiver, QSFP, 40G, multi-mode (850nm, 0.15km, MPO) (Connect to four SFP+)
QSFP-40G-LX4	40GBase-LX4 Optical Transceiver,QSFP+,40GE,Single-mode(1310nm,2km,LC),Multi-mode(1310nm,0.15km,LC)
QSFP-40G-iSM4	40GBase-iSM4 Optical Transceiver, QSFP+, 40G, Single-mode Module (1310nm,1.4km,MPO)(Connect to four SFP+ Optical Transceiver)
QSFP-40G-eSM4	40GBase-eSM4 Optical Transceiver, QSFP+, 40G, Single-mode Module (1310nm,10km,MPO)(Connect to four SFP+ Optical Transceiver)
QSFP-40G-LR4	40GBase-LR4 Optical Transceiver, QSFP+, 40GE, Single-mode Module (1310nm, 10km, LC)
QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, 0.3km, MPO) (Connect to four SFP+ Optical Transceiver)
CFP-40G-SR4	High Speed Transceiver,CFP,40G,Multimode Module (850nm,4*10G,0.1km,MPO)
CFP-40G-LR4	High Speed Transceiver,CFP,40G,Single-mode Module (1310nm band,41.25G,10km,stright LC)
CFP-40G-ER4	High Speed Transceiver,CFP,40G,Single-mode Module (1310nm band,41.25G,40km,stright LC)
CFP-40G-ZR4	High Speed Transceiver,CFP,40G,Single-mode Module(1550nm band,41.25G,80km,stright LC)
QSFP-40G-ER4	40GBase-ER4 Optical Transceiver,QSFP+,40G,Single-mode Module (1310nm,40km,LC)
100GE optical transceivers	
CFP-100G-SR10	High Speed Transceiver,CFP,100G,Multimode Module (850nm,10*10G,0.1km,MPO) (Can connect to 10 SFP+ ports or 2 QSFP+ ports)
CFP-100G-LR4	High Speed Transceiver,CFP,100G,Single-mode Module (1310nm band,4*25G,10km,stright LC)
CFP-100G-ER4	High Speed Transceiver,CFP,100G,Single-mode Module (1310nm band,4*25G,40km,stright LC)
QSFP-100G-CLR4	High Speed Transceiver,QSFP28,1310nm,4*25GBase,-6.5dBm,2.5dBm,-10.7dBm,LC/PC,2km
QSFP-100G-CWDM4	High Speed Transceiver,QSFP28,1310nm,4*25GBase,-6.5dBm,2.5dBm,-9.8dBm,LC/PC,2km
QSFP-100G-LR4	100GBase-LR4 Optical Transceiver,QSFP28,100G,Single-mode module (1310nm,10km,LC)
QSFP-100G-SR4	100GBase-SR4 Optical Transceiver,QSFP28,100G,Multi-mode (850nm,0.1km,MPO)

QSFP-100G-PSM4	100GBase-PSM4 Optical Transceiver,QSFP28,100G,Single-mode module (1310nm,0.5km,MPO)
BIDI-SFP Optical Module	
SFP-FE-LX-SM1310-BIDI	BiDi Transceiver, eSFP, Tx1310nm/Rx1550nm, 155M, -15dBm, -8dBm, -32dBm, LC/PC, SM, 15km
SFP-FE-LX-SM1550-BIDI	BiDi Transceiver, eSFP, Tx1550nm/Rx1310nm, 155M, -15dBm, -8dBm, -32dBm, LC/PC, SM, 15km
SFP-GE-LX-SM1310-BIDI	BiDi Transceiver, eSFP, Tx1310nm/Rx1490nm, 1.25Gb/s, -9dBm, -3dBm, -19.5dBm, LC, SM, 10km
SFP-GE-LX-SM1490-BIDI	BiDi Transceiver, eSFP, Tx1490nm/Rx1310nm, 1.25Gb/s, -9dBm, -3dBm, -19.5dBm, LC, SM, 10km
LE2MGSC40DE0	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1310/RX1490, 40km, LC)
LE2MGSC40ED0	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1490/RX1310, 40km, LC)
SFP-GE-ZBXD1	Optical Transceiver, eSFP,GE,BIDI Single-mode Module (1570nm(Tx)/1490nm(Rx),80km,LC)
SFP-GE-ZBXU1	Optical Transceiver,eSFP,GE,BIDI Single-mode Module (1490nm(Tx)/1570nm(Rx),80km,LC)
BIDI-SFP+ optical transceivers	
SFP-10G-ER-SM1330-BIDI	Optical Transceiver,SFP+,10G,BIDI Single-mode Module(TX 1330nm/RX 1270nm,40km,LC)
SFP-10G-ER-SM1270-BIDI	Optical Transceiver,SFP+,10G,BIDI Single-mode Module(TX 1270nm/RX 1330nm,40km,LC)
SFP-10G-BXU1	10G Base, Bi-Directional (BIDI) optical transceiver, SFP, 10G, single-mode module (TX1270 nm/RX1330 nm, 10 km, LC)
SFP-10G-BXD1	10G Base, BIDI optical transceiver, SFP, 10G, single-mode module (TX1330 nm/RX1270 nm, 10 km, LC)
High-Speed Cable	
SFP-10G-CU1M	SFP+,10G,High Speed Direct-attach Cables,1m,SFP+20M,CC2P0.254B(S),SFP+20M, Used indoor
SFP-10G-CU3M	SFP+,10G,High Speed Direct-attach Cables,3m,SFP+20M,CC2P0.254B(S),SFP+20M, Used indoor
SFP-10G-CU5M	SFP,10G,High Speed Cable,5m,SFP+20M,CC2P0.254B(S),SFP+20M,LSFRZH For Indoor
SFP-10G-AC10M	SFP+,10G,Active High Speed Cables,10m,SFP+20M,CC2P0.32B(S),SFP+20M,Used indoor

QSFP-4SFP10G-CU1M	QSFP+,4SFP+10G,High Speed Direct-attach Cables,1m,QSFP+38M,CC8P0.254B(S),4*SFP+20M,Used indoor
QSFP-4SFP10G-CU3M	QSFP+,4SFP+10G,High Speed Direct-attach Cables,3m,QSFP+38M,CC8P0.32B(S),4*SFP+20M,Used indoor
QSFP-4SFP10G-CU5M	QSFP+,4SFP+10G,High Speed Direct-attach Cables,5m,QSFP+38M,CC8P0.4B(S),4*SFP+20M,Used indoor
QSFP-40G-CU1M	QSFP+,40G,High Speed Direct-attach Cables,1m,QSFP+38M,CC8P0.254B(S),QSFP+38M,Used indoor
QSFP-40G-CU3M	QSFP+,40G,High Speed Direct-attach Cables,3m,QSFP+38M,CC8P0.32B(S),QSFP+38M,Used indoor
QSFP-40G-CU5M	QSFP+,40G,High Speed Direct-attach Cables,5m,QSFP+38M,CC8P0.40B(S),QSFP+38M,Used indoor
QSFP-100G-CU1M	High Speed Cable,100G QSFP28 Passive High Speed Cable,1m,QSFP28,CC8P0.254B(S),QSFP28,ETH 100GbE
QSFP-100G-CU3M	High Speed Cable,100G QSFP28 Passive High Speed Cable,3m,QSFP28,CC8P0.254B(S),QSFP28,ETH 100GbE
QSFP-100G-CU5M	High Speed Cable,100G QSFP28 Passive High Speed Cable,5m,QSFP28,CC8P0.4B(S),QSFP28,ETH 100GbE
Optical Fiber	
SFP-10G-AOC3M	AOC Optical Transceiver,SFP+,850nm,1G~10G,0.003km
SFP-10G-AOC10M	AOC Optical Transceiver,SFP+,850nm,1G~10G,10m
QSFP-H40G-AOC10M	Optical transceiver,QSFP+,40G,(850nm,10m,AOC)
QSFP-4SFP10-AOC10M	Optical transceiver,QSFP+,40G,(850nm,10m,AOC)(Connect to four SFP+ Optical Transceiver)
QSFP-100G-AOC10M	High Speed Transceiver,QSFP28 to QSFP28 AOC,850nm,100G,0.01km
Power Supply Unit	
W2PSA0800	800W AC Power Module(black)
IN6W18L10A	AC Power Distribution Unit (Eight 800W Outputs, include power cable)
PAC-2200WF	2200W AC Power Module
IM1W24APD	AC Power Distribution Unit (Four 2200W Outputs, include power cable)
W2PSD2200	2200W DC Power Module (black)
EH1M00PDBS01	DC Power Distribution Unit (Eight 2200W Outputs, include power cable)
Software	
ES0SMS279700	S9700 Basic SW,V200R007
ES0SMS289700	S9700 Basic SW,V200R008
EH1SMS299700	S9700 Basic SW,V200R009

EH1SMS2A9700	S9700 Basic SW,V200R010
EH1SMS2B9700	S9700 Basic SW,V200R011
EH1SMPLS0000	MPLS Function License
EH1SNQA00000	NQA Function License
EH1SIPV60000	IPv6 Function License
EH1SSVFF0000	SVF Function License (applicable only to the S9700 series)
EH1SFIB128K0	X-series LPU FIB Resource License-128K
EH1SFIB512K0	X-series LPU FIB Resource License-512K
EH1SWL512AP0	WLAN Access Controller AP Resource License-512AP (with the X-series LPU used)
EH1SWL128AP0	WLAN Access Controller AP Resource License-128AP (with the X-series LPU used)
EH1SWL64AP00	WLAN Access Controller AP Resource License-64AP (with the X-series LPU used)
EH1SWL16AP00	WLAN Access Controller AP Resource License-16AP (with the X-series LPU used)
L-ACU2-128AP	ACU2 Wireless Access Controller AP Resource License(128 AP)
L-ACU2-256AP	ACU2 Wireless Access Controller AP Resource License(256 AP)
L-ACU2-384AP	ACU2 Wireless Access Controller AP Resource License(384 AP)
L-ACU2-512AP	ACU2 Wireless Access Controller AP Resource License(512 AP)
Documentation	
EH1IV2RAC0E0	S9700 Series Switches V200R010C00 Product Documentation
ES1IV2RBC0E0	S9700 Series Switches V200R011C10 Product Documentation

10 Others

The latest version of S9700 is V2R11.

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