EH1BS9712E00(02113549) Datasheet

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Overview

EH1BS9712E00 is the Huawei S9712 Switch assembly chassis, including 12 slots. The S9700 series terabit routing switches are high-end switches designed for next-generation campus networks and data centers to implement service aggregation.

Quick Specification

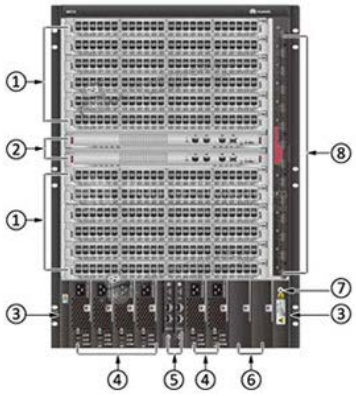
Figure 1 shows the S9712 chassis appearance. EH1BS9712E00 is one of the S9712 chassis, including no cards, modules or units. S9712

Table 1 shows the Quick Specs.

Model	EH1BS9712E00
Part Number	02113549
Packet Forwarding Rates	3,840 Mpps or 6,480 Mpps
Switching Capacity	8.64 Tbit/s or 18.56 Tbit/s
MPU Slots	2
LPU slots	12
Service Slots	12
Fan slots	4
Power slots	6
Equipment Power Supply Capability	6,600W
Maximum power consumption (fully loaded)	4500 W
Operating Voltage	DC: –40V to –72V
	AC: 90V to 290V
Dimensions (W x D x H, excluding rack-mounting brackets)	With cable management frames: 442 mm x 585 mm x 663.95 mm (17.4 in. x 23.0 in. x 26.1 in. (15 U))
	Without cable management frames: 442 mm x 489 mm x 663.95 mm (17.4 in. x 19.3 in. x 26.1 in. (15 U))
Weight (empty/fully loaded)	37 kg/70 kg (81.6 lb/154.3 lb)

Product Details

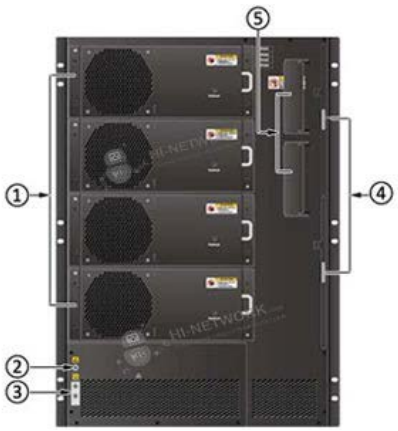
Figure 2 S9712 chassis structure (front view).



Note:

①	Twelve service cards, including: Open Service Platform Unit 100M Interface Card 1000M Interface Card GE/10GE Interface Card 10GE Interface Card 40GE Interface Card 100GE Interface Card
②	Two MPUs
③	A pair of mounting brackets
④	Six power modules
⑤	Two EH1D200CMU00-Centralized Monitoring Unit
⑥	Reserved slot
⑦	Front ESD jack
⑧	Cable management frames

Figure 3 S9712 chassis structure (rear view).



Note:

①	Four power modules
②	Rear ESD jack
③	JG ground terminal
④	Air filter
⑤	A pair of removable handles

The Modules, Cards

Table 2 shows the recommended elements for the EH1BS9712E00.

Model	**Description**
FE-SFP optical transceiver	
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)
S-SFP-FE-LH40-SM1310	Optical Transceiver, eSFP, FE, Single-mode Module (1310nm, 40km, LC)
GE-SFP optical transceiver	
eSFP-GE-SX-MM850	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC)
SFP-GE-LX-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 40km, LC)
S-SFP-GE-LH40-SM1550	Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 40km, LC)
10G-SFP+ optical transceiver	
SFP-10G-USR	10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)
OMXD30000	Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.3km, LC)
OSX010000	Optical Transceiver, SFP+, 10G, Single-mode Module (1310nm, 10km, LC)
40GE CFP optical transceiver	
CFP-40G-SR4	High Speed Transceiver CFP-40G-SR4, 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, straight LC)
CFP-40G-ER4	High Speed Transceiver, CFP,40G, Single-mode Module (1310nm band,41.25G,40km, straight LC)
40GE QSFP+ optical transceiver	
QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver, QSFP+,40G, Multi-mode(850nm,0.3km, MPO) (Connect to four SFP+ Optical Transceiver)
QSFP-40G-ER4	40GBase-ER4 Optical Transceiver, QSFP+,40G, Single-mode Module (1310nm,40km, LC)
100GE CFP optical transceiver	
CFP-100G-SR10	High Speed Transceiver, CFP,100G, Multimode Module (850nm,10*10G,0.1km, MPO)
CFP-100G-LR4	CFP, 100G, Single-mode Module (1310nm band,4*25G,10km, straight LC)
CFP-100G-ER4	High Speed Transceiver, CFP,100G,Single-mode Module(1310nm band,4*25G,40km,stright LC)
GE copper transceiver	
SFP-1000BaseT	Electrical Transceiver, SFP, GE, Electrical Interface Module (100m, RJ45)
100GE interface card	
ET1D2C02FEE0	2-Port 100GBASE-X Interface Card (EE, CFP) ET1D2C02FEE0series)
10GE interface card	
ET1D2X32SSC0	32-Port 10GBASE-X Interface Card (SC, SFP+)
ET1D2X12SSA0	12-Port 10GBASE-X Interface Card (SA, SFP+)
40GE interface card	
ET1D2L08QSC0	8-Port 40GBASE-X Interface Card (SC, QSFP+)
ET1D2L02QSC0	2-Port 40GBASE-X Interface Card (SC, QSFP+)

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Centralized monitoring unit	
EH1D200CMU00	Centralized Monitoring Board
Cluster switching system unit	
EH1D2VS08000	8-Port 10G Cluster Switching System Service Unit (SFP+)
Firewall module	
ET1D2FW00S02	NGFW Module C,with HW General Security Platform Software
ET1D2FW00S01	NGFW Module B,with HW General Security Platform Software
GE/10GE interface card	
ET1D2S08SX1E	8-Port 10GBASE-X and 8-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface Card (X1E, RJ45/SFP/SFP+)
ET1D2S04SX1E	4-Port 10GBASE-X and 24-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface Card (X1E, RJ45/SFP/SFP+)
Intrusion prevention system module	
ET1D2IPS0S00	IPS Module A,with HW General Security Platform Software
Main processing unit	
ET1D2MPUA000	S12708/S12712, Main Processing Unit A (Optional clock)
Switch fabric unit	
ET1D2SFUD000	S12708/S12712, Switch Fabric Unit D
ET1D2SFUA000	S12708/S12712, Switch Fabric Unit A

Compare to Similar Items

Table 3 shows the comparison of EH1BS9712E00 and ET1BS12708S0.

Product Code	EH1BS9712E00
Packet Forwarding Rates	3,840 Mpps or 6,480 Mpps
Switching Capacity	8.64 Tbit/s or 18.56 Tbit/s
MPU Slots	2
Maximum power consumption (fully loaded)	4500 W

Get more information:

Do you have any question about the EH1BS9712E00(02113549)?

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Specification:

EH1BS9712E00 Specifications	
Switching Capacity	8.64 Tbit/s; 18.56 Tbit/s
Packet Forwarding Rates	3,840 Mpps/6,480 Mpps
Service Slots	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 Virtualization	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
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, IGMP v1/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	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
QoS	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority

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