ET1BS12712S0 Datasheet

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Overview

ET1BS12712S0 is the Huawei S12712 Switch assembly chassis, including 12 slots.

Quick Specs

Figure 1 shows the S12712 appearance. ET1BS12712S0 is its assembly chassis, including no cards, modules or units.


Table 1 shows the Quick Specs.

Product Code	ET1BS12712S0
Packet Forwarding Rates	9,120 Mpps; 12,960 Mpps(With Necessary Plug-ins)
Switching Capacity	17.44 Tbit/s; 44.96 Tbit/s(With Necessary Plug-ins)
MPU Slots	2
SFU Slots	4
Service Card Slots	12
Energy Saving	Energy Efficient Ethernet (802.3az)
Redundancy Design	MPUs, SFUs, power supplies, and fan modules
Maximum Power Consumption of the Entire Equipment	≤ 6,600W
Dimensions (W x D x H)	With cable management frames: 442 mm x 585 mm x 841.75 mm (17.4 in. x 23.0 in. x 33.1 in. (19 U)) Without cable management frames: 442 mm x 489 mm x 841.75 mm (17.4 in. x 19.3 in. x 33.1 in. (19 U))
Weight	63 kg

Product Details

Figure 2 shows the front structure of the ET1BS12712S0.
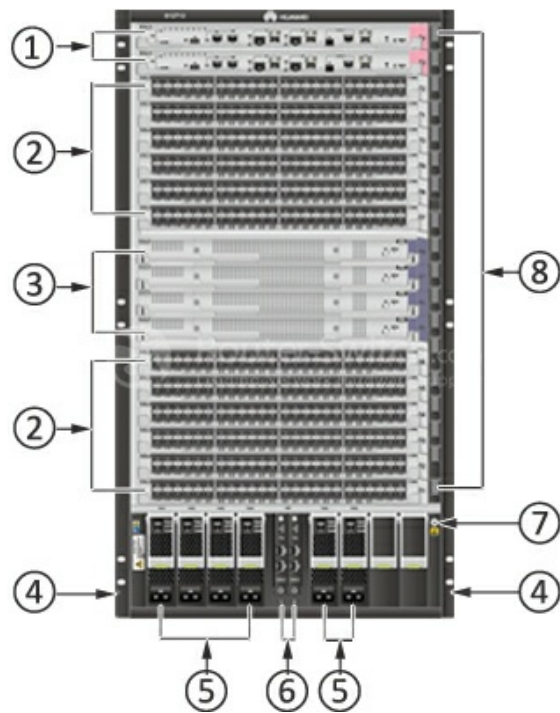
Note:

| (1)	Two MPUs
(2)	Twelve service cards, including: ·Open Service Platform Unit ·1000M Interface Card ·GE/10GE Interface Card ·10GE Interface Card ·40GE Interface Card ·100GE Interface Card
(3)	Four SFUs
(4)	A pair of mounting brackets
(5)	Six power modules
(6)	Two CMUs
(7)	Front ESD jack
(8)	Cable management frames

·The ET1BS12712S0 is just a Chassis that it doesn't provide cards, modules or units. The cards, modules or units must be purchased separately.
·The mounting brackets are used to secure the chassis in a cabinet.
·The ground terminal of an ESD wrist strap can be inserted in this jack. The ESD wrist strap can provide ESD protection when the chassis is reliably grounded.
·The cable management frames separate cables on different cards and help route cables orderly.

Figure 3 shows the rear structure of the ET1BS12712S0.
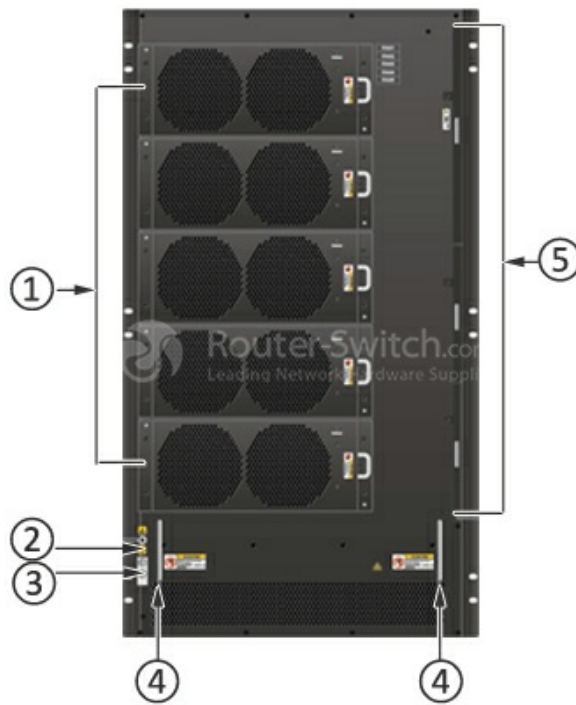
Note:

(1)	Five Fan Modules
(2)	Rear ESD jack
(3)	JG ground terminal
(4)	A pair of handles
(5)	Air filter

·The ground terminal of an ESD wrist strap can be inserted in this jack. The ESD wrist strap can provide ESD protection when the chassis is reliably grounded.
·The handles are only used for this purpose: After you lift the chassis onto the guide rails or tray, grasp the handles to drag the chassis into the cabinet.
·The air filter prevents dust from entering the chassis.

The Modules, Cards

Table 2 shows the recommended elements for the ET1BS12712S0.

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,stright LC)
CFP-40G-ER4	High Speed Transceiver,CFP,40G,Single-mode Module(1310nm band,41.25G,40km,stright 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,stright 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+)
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
Wireless access controller unit	
ACU2	WLAN ACU2 Access Controller Unit(128 AP Control Resource Included)
GE interface card	
ET1D2T36SEA0	36-Port 10/100/1000BASE-T and 12-Port 100/1000BASE-X Interface Card(EA,RJ45/SFP)
ET1D2G48SX1E	48-Port 100/1000BASE-X Interface Card(X1E,SFP)

Compare to Similar Items

Table 3 shows the comparison of ET1BS12712S0 and ET1BS12708S0.

Product Code	ET1BS12712S0	ET1BS12708S0
Description	Huawei S12712 Switch assembly chassis	Huawei S12708 Switch assembly chassis
Packet Forwarding Rates	9,120 Mpps; 12,960 Mpps(With Necessary Plug-ins)	6,240 Mpps; 9,120 Mpps(With Necessary Plug-ins)
Switching Capacity	17.44 Tbit/s; 44.96 Tbit/s(With Necessary Plug-ins)	12.32 Tbit/s; 32.16 Tbit/s(With Necessary Plug-ins)
MPU Slots	2	2
SFU Slots	4	4
Service Card Slots	12	8
Maximum Power Consumption of the Entire Equipment	≤ 6,600W	≤ 4,400W
Weight	63 kg	42 kg

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Specification

ET1BS12712S0 Specification	
Switching Capacity	17.44 Tbit/s; 44.96 Tbit/s
Packet Forwarding Rates	9,120 Mpps; 12,960 Mpps
MPU Slots	2
SFU Slots	4
Service Card Slots	12
Redundancy Design	MPUs, SFUs, power supplies, and fan modules
CSS2	1+N backup of MPUs in a cluster
	Up to 1.92 Tbit/s cluster bandwidth, 4 μs inter-chassis transmission latency
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, 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
SVF2.0 Virtualization	Up to 4K clients (access switches and APs) virtualized into a single device
	Two layers of ASs allowed in an SVF system
	Third-party devices allowed between SVF parent and clients
VLAN	Access, trunk, and hybrid interface types, auto-negotiation of LNP links
	Default VLAN
	VLAN switching
	QinQ and selective QinQ
	MAC address-based VLAN assignment
ARP	256K ARP entries
	1M MAC address entries

MAC Address	Dynamic MAC address learning and aging
	Static, dynamic, and blackhole MAC address entries
	Source MAC address filtering
	MAC address limiting based on ports and VLANs
Ring Network Protection	Spanning Tree Protocol (STP) (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
	SEP
	Bridge Protocol Data Unit (BPDU), root protection, and loop protection
	BPDU tunnel
	G.8032 Ethernet Ring Protection Switching (ERPS)
IP Routing	3M IPv4 routing entries
	512K IPv6 routing entries
	IPv4 dynamic routing protocols, such as RIP, OSPF, IS-IS, and BGP
	IPv6 routing protocols, such as RIPng, OSPFv3, IS-ISv6, and BGP4+
Multicast	128,000 multicast routing entries
	IGMP v1/v2/v3 and IGMP v1/v2/v3 snooping
	PIM-DM, PIM-SM, and PIM-SSM
	Multicast Source Discovery Protocol (MSDP) and Multiprotocol Extensions for BGP (MBGP)
	Fast leave
	Multicast traffic control
	Multicast querier
	Multicast protocol packet suppression
	Multicast Call Admission Control (CAC)
	Multicast ACL
MPLS	Basic MPLS functions
	MPLS Operations, Administration, and Maintenance (OAM)
	MPLS Traffic Engineering (TE)
	MPLS VPN/VLL/VPLS
Reliability	Link Aggregation Control Protocol (LACP) and E-Trunk
	Virtual Router Redundancy Protocol (VRRP) and Bi-directional Forwarding Detection (BFD) for VRRP
	BFD for BGP/IS-IS/OSPF/static route
	Non-Stop Routing (NSR), Non-Stop Forwarding (NSF) and Graceful Restart (GR) for BGP/IS-IS/OSPF/LDP
	TE Fast ReRoute (FRR) and IP FRR
	Eth-OAM 802.3ah and 802.1ag (hardware-based)
	HSR
	ITU-Y.1731

	Device Link Detection Protocol (DLDP)
QoS	256K ACLs
	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority
	ACLs and actions such as Committed Access Rate (CAR), re-marking, and scheduling
	Queuing algorithms, such as SP, WRR, DRR, SP + WRR, and SP + DRR
	Congestion avoidance mechanisms, including (WRED) and tail drop
	H-QoS
	Traffic shaping
Network Synchronization	Ethernet synchronization
	1588v2
Configuration and Maintenance	Terminal access services such as console port login, Telnet, and SSH
	Network management protocols, such as SNMP v1/v2/v3
	File uploading and downloading through FTP and TFTP
	BootROM upgrade and remote in-service upgrade
	Hot patches
	User operation logs
Security and Management	MAC address, Portal, 802.1x, and Dynamic Host Configuration Protocol (DHCP) snooping triggered authentication
	MACsec
	RADIUS and HWTACACS authentication for login users
	Command line authority control based on user levels, preventing unauthorized users from using command configurations
	Defense against DoS attacks, Transmission Control Protocol (TCP) SYN Flood attacks, User Datagram Protocol (UDP) Flood attacks, broadcast storms, and heavy traffic attacks
	Remote Network Monitoring (RMON)
Security Protection*	Firewall
	Network Address Translation (NAT)
	IPSec, SSL VPN
	Intrusion Protection System (IPS)
	Load balancing Analog Digital Conversion (ADC)
Interoperability	Interoperable with VBST (compatible with PVST/PVST+/RPVST)
	Interoperable with LNP (similar to DTP)
	Interoperable with VCMP (similar to VTP)
Energy Saving	Energy Efficient Ethernet (802.3az)
Dimensions (H x W x D)	841.75 mm x 442 mm x 489 mm, 19U
Weight (empty chassis)	63 kg

Operating Voltage	DC: –40V to –72V AC: 90V to 290V
Maximum Power Consumption of the Entire Equipment	≤ 6,600W

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