

Datasheet

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Overview

The Huawei CloudEngine S5731-S series switches were developed based on next-generation high-performing hardware and the Huawei Versatile Routing Platform (VRP). The CloudEngine S5731-S supports simplified operations and maintenance (O&M), intelligent stack (iStack), flexible Ethernet networking. It also provides enhanced Layer 3 features and mature IPv6 features. The CloudEngine S5731-S can be used in various scenarios. For example, it can be used as an access or aggregation switch on a campus network or as an access switch for Metropolitan Area Network.

Quick Specification

Model	S5731-S48T4X
Part Number	98011847/02353AJB/02353AJB-003
Fixed port	48 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Chassis height	1 U
Maximum power consumption	124 W

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Product Details:

The Front Panel:



The Back Panel:



The Accessories for S5731-S48T4X

Modules and Cables:

Product	Description
PAC600S12-CB	600W AC Power Module(Back to Front, Power panel side exhaust)
eSFP-GE-SX-MM850	Optical Transceiver,eSFP,GE,Multi-mode Module(850nm,0.55km,LC)
S-SFP-GE-LH40-SM1550	Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,40km,LC)
SFP-GE-LX-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)

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S-SFP-GE-LH40-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,40km,LC)
S-SFP-GE-LH80-SM1550	Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,80km,LC)
SFP-GE-ZBXU1	Optical Transceiver,eSFP,GE,BiDi Single-mode Module(1490nm(Tx)/1570nm(Rx),80km,LC)
SFP-GE-LX-SM1490-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,10km,LC)
SFP-GE-ZBXD1	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(1570nm(Tx)/1490nm(Rx),80km,LC)
LE2MGSC40DE0	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1310/RX1490,40km,LC)
SFP-GE-LX-SM1310-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1310/RX1490,10km,LC)
LE2MGSC40ED0	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,40km,LC)
SFP-GE-BXU1-SC	1000Base,BIDI Optical Transceiver,SFP,GE,Single-mode Module(TX1490nm/RX1310nm,10km,SC)
SFP-10G-BXD1	10GBase,BIDI Optical Transceiver,SFP+,10G,Single-mode Module(TX1330nm/RX1270nm,10km,LC)
SFP-10G-ZR	10GBase-ZR Optical Transceiver,SFP+,10G,Single-mode Module(1550nm,80km,LC)
OSX040N01	Optical Transceiver,SFP+,10G,Single-mode Module(1550nm,40km,LC)

Compare to Similar Items

Model	S5731-S24P4X	S5731-S24T4X	S5731-S48P4X	S5731-S48T4X
Fixed port	24 x 10/100/1000Base-T (PoE+) ports, 4 x 10GE SFP+ ports	442 mm x 420 mm x 43.6 mm	48 x 10/100/1000Base-T (PoE+) ports, 4 x 10GE SFP+ ports	48 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm	1 U	442 mm x 420 mm x 43.6 mm	442 mm x 420 mm x 43.6 mm
Chassis height	1 U	8.4 kg	1 U	1 U
Chassis weight (including packaging)	8.6 kg	<ul style="list-style-type: none"> • 150 W AC (pluggable) • 600 W AC (pluggable) • 1000 W DC (pluggable) 	8.8 kg	8.55 kg
Power supply type	1000 W PoE AC (pluggable)	<ul style="list-style-type: none"> • AC input (150 W AC): 100 V AC to 240 V AC, 50/60 Hz • AC input (600 W AC): 100 V AC to 240 V AC, 50/60 Hz • DC input (1000 W DC): -48 VDC to -60 V DC 	1000 W PoE AC (pluggable)	<ul style="list-style-type: none"> • 150 W AC (pluggable) • 600 W AC (pluggable) • 1000 W DC (pluggable)
Rated voltage range	AC input (1000 W AC PoE): 100 V AC to 240 V AC, 50/60 Hz		AC input (1000 W AC PoE): 100 V AC to 240 V AC, 50/60 Hz	<ul style="list-style-type: none"> • AC input (150 W AC): 100 V AC to 240 V AC, 50/60 Hz • AC input (600 W AC): 100 V AC to 240 V AC, 50/60 Hz • DC input (1000 W DC): -48 VDC to -60 V DC



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Maximum power consumption	<ul style="list-style-type: none"> • 121 W (without PD) • 977 W (with PD, PD power consumption of 720 W) 	114 W	<ul style="list-style-type: none"> • 132 W (without PD) • 1750 W (with PD, PD power consumption of 1440 W) 	124 W
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Get more information:

Do you have any question about the S5731-S48T4X 98011847/02353AJB/02353AJB-003?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Part Number	98011847/02353AJB/02353AJB-003
Model	S5731-S48T4X
Fixed port	48 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Chassis height	1 U
Chassis weight (including packaging)	8.55 kg
Power supply type	<ul style="list-style-type: none"> • 150 W AC (pluggable) • 600 W AC (pluggable) • 1000 W DC (pluggable)
Rated voltage range	<ul style="list-style-type: none"> • AC input (150 W AC): 100 V AC to 240 V AC, 50/60 Hz • AC input (600 W AC): 100 V AC to 240 V AC, 50/60 Hz • DC input (1000 W DC): -48 VDC to -60 V DC
Maximum voltage range	<ul style="list-style-type: none"> • AC input (150 W AC): 90 V AC to 264 V AC, 47 Hz to 63 Hz • AC input (600 W AC): 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC input (600 W AC): 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) • DC input (1000 W DC): -38.4 V DC to -72V DC
Maximum power consumption	124 W
Noise	<ul style="list-style-type: none"> • Under normal temperature (sound power): 57.5dB (A) • Under high temperature (sound power): 70.9dB (A) • Under normal temperature (sound pressure): 47.5dB (A)
Operating temperature	<ul style="list-style-type: none"> • 0-1800 m altitude: -5°C to +45°C • 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
Storage temperature	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)
Surge protection specification (service port)	Common mode: ± 6 kV
Surge protection specification (power port)	<ul style="list-style-type: none"> • AC power port: ± 6 kV in differential mode, ± 6 kV in common mode • DC power port: ± 2 kV in differential mode, ± 4 kV in common mode
Heat dissipation	Air cooling heat dissipation, intelligent speed adjustment, and pluggable fans
MAC address table	IEEE 802.1d standards compliance



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	<p>32K MAC address entries</p> <p>MAC address learning and aging</p> <p>Static, dynamic, and blackhole MAC address entries</p> <p>Packet filtering based on source MAC addresses</p>
VLAN	<p>4094 VLANs</p> <p>Guest VLAN and voice VLAN</p> <p>GVRP</p> <p>MUX VLAN</p> <p>VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports</p> <p>VLAN mapping</p>
Ethernet loop protection	<p>RRPP ring topology and RRPP multi-instance</p> <p>Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switching</p> <p>SEP</p> <p>ERPS (G.8032)</p> <p>BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM</p> <p>STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)</p> <p>BPDU protection, root protection, and loop protection</p>
IP routing	<p>Static routes, RIP v1/2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, ECMP, routing policy</p> <p>Up to 16K FIBv4 entries</p> <p>Up to 8K FIBv4 entries</p>
Interoperability	<p>VLAN-Based Spanning Tree (VBST), working with PVST, PVST+, and RPVST</p> <p>Link-type Negotiation Protocol (LNP), similar to DTP</p> <p>VLAN Central Management Protocol (VCMP), similar to VTP</p>
IPv6 features	<p>Up to 8K ND entries</p> <p>PMTU</p> <p>IPv6 Ping, IPv6 Tracert, and IPv6 Telnet</p> <p>ACLs based on source IPv6 addresses, destination IPv6 addresses, Layer 4 ports, or protocol types</p> <p>Multicast Listener Discovery snooping (MLDv1/v2)</p> <p>IPv6 addresses configured for sub-interfaces, VRRP6, DHCPv6, and L3VPN</p>
Multicast	<p>IGMP v1/v2/v3 snooping and IGMP fast leave</p> <p>Multicast forwarding in a VLAN and multicast replication between VLANs</p> <p>Multicast load balancing among member ports of a trunk</p> <p>Controllable multicast</p> <p>Port-based multicast traffic statistics</p> <p>IGMP v1/v2/v3, PIM-SM, PIM-DM, and PIM-SSM</p> <p>MSDP</p> <p>MVPN</p>
QoS/ACL	<p>Rate limiting in the inbound and outbound directions of a port</p> <p>Packet redirection</p> <p>Port-based traffic policing and two-rate three-color CAR</p> <p>Eight queues per port</p> <p>DRR, SP and DRR+SP queue scheduling algorithms</p> <p>WRED</p> <p>Re-marking of the 802.1p and DSCP fields of packets</p> <p>Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type,</p>

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	<p>and VLAN ID</p> <p>Queue-based rate limiting and shaping on ports</p>
Security	<p>Hierarchical user management and password protection</p> <p>DoS attack defense, ARP attack defense, and ICMP attack defense</p> <p>Binding of the IP address, MAC address, port number, and VLAN ID</p> <p>Port isolation, port security, and sticky MAC</p> <p>MAC Forced Forwarding (MFF)</p> <p>Blackhole MAC address entries</p> <p>Limit on the number of learned MAC addresses</p> <p>IEEE 802.1x authentication and limit on the number of users on a port</p> <p>AAA authentication, RADIUS authentication, and HWTACACS authentication</p> <p>NAC</p> <p>SSH V2.0</p> <p>HTTPS</p> <p>CPU protection</p> <p>Blacklist and whitelist</p> <p>Attack source tracing and punishment for IPv6 packets such as ND, DHCPv6, and MLD packets</p> <p>Secure Boot</p> <p>IPSec</p> <p>ECA</p> <p>Deception</p>
Reliability	<p>LACP</p> <p>E-trunk</p> <p>Ethernet OAM (IEEE 802.3ah and IEEE 802.1ag)</p> <p>ITU-Y.1731</p> <p>DLDP</p> <p>LLDP</p> <p>BFD for BGP, BFD for IS-IS, BFD for OSPF, BFD for static route</p>
VXLAN*	<p>VXLAN L2 and L3 gateways</p> <p>Centralized and distributed gateway</p> <p>BGP-EVPN</p> <p>Configured through the NETCONF protocol</p>
Super Virtual Fabric (SVF)	<p>A two-layer client architecture is supported.</p> <p>IGMP snooping can be enabled on access switches (ASs) and the maximum number of access users on a port can be configured.</p> <p>ASs can be independently configured. Services that are not supported by templates can be configured on the parent.</p> <p>Third-party devices are allowed between SVF parent and clients.</p> <p>Working as an SVF client that is plug-and-play with zero configuration</p>
iPCA	<p>Directly coloring service packets to collect real-time statistics on the number of lost packets and packet loss ratio</p> <p>Collection of statistics on the number of lost packets and packet loss ratio at network and device levels</p>
TWAMP	<p>Two-way IP link performance measurement</p> <p>Measurement on two-way packet delay, one-way packet loss rate, and one-way packet jitter</p>
Management and maintenance	<p>iStack, with up to 9 member switches in a stack</p> <p>SNMP v1/v2c/v3</p>

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	<p>RMON</p> <p>Smart Application Control (SAC)</p> <p>Web-based NMS</p> <p>System logs and alarms of different levels</p> <p>GVRP</p> <p>MUX VLAN</p> <p>NetStream</p> <p>Intelligent O&M</p>
<p>*CloudEngine S5731-S series switches require the VXLAN license or N1 advanced software package to support the VXLAN feature.</p>	

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