Huawei CloudEngine S5755-S Series Switches Datasheet

CloudEngine S5755-S series Gigabit switches are brand-new access switches that provide 24/48 x 1/2.5GE port models, and provide 8 x 2.5GE and 8 x 25GE uplink ports and one extended slot.

Introduction

CloudEngine S5755-S series Switches are brand-new GE switches developed by Huawei for the Wi-Fi 6/Wi-Fi 7. The CloudEngine S5755-S builds on Huawei's unified Platform and boasts various IDN features. For example, the VXLAN functionality implements network virtualization. With these merits, the CloudEngine S5755-S can function as core switches for small-sized campus networks and branches of medium- and large-sized campus networks, and also work as access switches for Metropolitan Area Network. CloudEngine S5755-S can provide a maximum of 48 GE ports and maximum 60W PoE++ output for every port, which is a good choice for WLAN APs to connect to a switch in the high-quality campus networks.

Product Overview

Models and Appearances

The following models are available in the CloudEngine S5755-S series.

Models and Appearances	Description
 CloudEngine S5755-S24T8Y	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 448 Gbps/740 Gbps
 CloudEngine S5755-S24P8Y	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • PoE+ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 448 Gbps/740 Gbps
 CloudEngine S5755-S24U8Y	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • 90W PoE++ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 448 Gbps/740 Gbps
	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x FE/1/2.5GE SFP, 8 x 1/2.5/10/25GE SFP28

Models and Appearances	Description
CloudEngine S5755-S24T8J8YZ	• One extended slot • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 588 Gbps/740 Gbps
 CloudEngine S5755-S24P8J8YZ	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x FE/1/2.5GE SFP, 8 x 1/2.5/10/25GE SFP28 • One extended slot • PoE+ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 588 Gbps/740 Gbps
 CloudEngine S5755-S24U8J8YZ	• 24 × 10/100/1000 Base-T Ethernet ports, 8 x FE/1/2.5GE SFP, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 90W PoE++ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 588 Gbps/740 Gbps
 CloudEngine S5755-S24N8YZ	• 24 × 10/100/1000/2.5G Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 620 Gbps/740 Gbps
 CloudEngine S5755-S24UN8YZ	• 24 × 10/100/1000/2.5G Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 90W PoE++ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 620 Gbps/740 Gbps
 CloudEngine S5755-S48T8Y	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 496 Gbps/740 Gbps
 CloudEngine S5755-S48P8Y	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • PoE+ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 496 Gbps/740 Gbps
 CloudEngine S5755-S48U8Y	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • 90W PoE++ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 496 Gbps/740 Gbps

Models and Appearances	Description
 CloudEngine S5755-S48T8YZ	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 596 Gbps/740 Gbps
 CloudEngine S5755-S48P8YZ	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • PoE+ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 596 Gbps/740 Gbps
 CloudEngine S5755-S48U8YZ	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 90W PoE++ • N+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 596 Gbps/740 Gbps
 CloudEngine S5755-S48N8YZ	• 48 × 10/100/1000/2.5G Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 1+1 power backup • Forwarding performance: 476 Mpps • Switching capacity*: 740 Gbps/740 Gbps
 CloudEngine S5755-S48UN8YZ	• 48 × 10/100/1000/2.5G Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • One extended slot • 90W PoE++ • N+1 power backup • Forwarding performance: 476 Mpps • Switching capacity*: 740 Gbps/740 Gbps
 CloudEngine S5755-S48T8YZ-B	• 48 × 10/100/1000 Base-T Ethernet ports, 8 x 1/2.5/10/25GE SFP28 • 1+1 power backup • Forwarding performance: 340 Mpps • Switching capacity*: 596 Gbps/740 Gbps

Note：*The value before the slash (/) refers to the device's switching capability, while the value after the slash (/) means the system's switching capability.

Subcards

The following table lists the subcards applicable to the CloudEngine S5755-S.

Technical specifications of the subcards applicable to the CloudEngine S5755-S series

Subcards	Technical Specifications	Applied Switch Model

Subcards	Technical Specifications	Applied Switch Model
 HSIC-X08S000	• 8*10GE SFP+ or 4*25GE SFP28 (only ports 1 to 4 support 25GE) • Dimensions without packaging (H x W x D) [mm(in.)]: 39.1 mm x 100.1 mm x 220 mm (1.54 in. x 3.94 in. x 8.66 in.) • Weight without packaging [kg(lb)]: 0.44 kg (0.97 lb) • Maximum power consumption [W]: 38.5 W • Maximum heat dissipation [BTU/hour]: 131.37 BTU/hour	• CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S24UN8YZ • CloudEngine S5755-S48N8YZ • CloudEngine S5755-S48UN8YZ
 HSIC-Q04S000	• 4*40GE QSFP ports • Dimensions without packaging (H x W x D) [mm(in.)]: 39.1 mm x 100.1 mm x 220 mm (1.54 in. x 3.94 in. x 8.66 in.) • Weight without packaging [kg(lb)]: 0.44 kg (0.97 lb) • Maximum power consumption [W]: 40 W • Maximum heat dissipation [BTU/hour]: 136.48 BTU/hour	• CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S24UN8YZ • CloudEngine S5755-S48N8YZ • CloudEngine S5755-S48UN8YZ

Note:

- *For the S5755-S, only support 4*25GE, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.*
- When the HSIC-Q04S000 is used on S5755-S series switches, it does not support the 2 × 100GE mode or stacking.

Fan Models

The following table lists the fan module applicable to the CloudEngine S5755-S.

Technical specifications of the fan module applicable to the CloudEngine S5755-S series

Fan Module	Technical Specifications	Applied Switch Model
 FAN-023A-B	• Dimensions (W x D x H): 40 mm x 100.3 mm x 40 mm • Number of fans: 1 • Weight: 0.1 kg • Maximum power consumption: 7.2 W • Maximum fan speed: 18500±10% revolutions per minute (RPM) • Maximum airflow: 23 cubic feet per minute (CFM) • Hot swap: Supported	• CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S24UN8YZ

Fan Module	Technical Specifications	Applied Switch Model
		• CloudEngine S5755-S48N8YZ • CloudEngine S5755-S48UN8YZ

Power Supply

The following table lists the power supplies applicable to the CloudEngine S5755-S.

Technical specifications of the power supplies applicable to the CloudEngine S5755-S series

Power Module	Technical Specifications	Applied Switch Model
 PAC80S12-CN	• Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.) • Weight: 1.2 kg (2.65 lb) • Rated input voltage range: – 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: – 90 V AC to 290 V AC, 45 Hz to 66 Hz • Maximum input current: 2 A • Rated output current: 6.67 A • Rated output voltage: 12 V • Rated output power: 80 W • Hot swap: Supported	• CloudEngine S5755-S24T8Y • CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S48T8Y • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S48N8YZ
 PAC180S12-CN	• Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.) • Weight: 1.2 kg (2.65 lb) • Rated input voltage range: – 100 V AC to 240 V AC, 50/60 Hz – 240 V DC • Maximum input voltage range: – 90 V AC to 290 V AC, 45 Hz to 66 Hz – 190 V DC to 290 V DC • Maximum input current: 3 A • Rated output current: 15 A • Rated output voltage: 12 V • Rated output power: 180 W • Hot swap: Supported	• CloudEngine S5755-S24T8Y • CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S48T8Y • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S48N8YZ
 PDC240S12-CN	• Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.) • Weight: 1.5 kg (3.31 lb) • Rated input voltage range: – +48 V DC – -48 V DC to -60 V DC • Maximum input voltage range: – +40 V DC to +57 V DC – -38.4 V DC to -72 V DC • Maximum input current: 7A	• CloudEngine S5755-S24T8Y • CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S48T8Y • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S48N8YZ

Power Module	Technical Specifications	Applied Switch Model
	• Rated output voltage: 20 V • Rated output power: 240 W • Hot swap: Supported	
 PAC600S12-PB	• Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.) • Weight: 1 kg (2.20 lb) • Rated input voltage range: – 100 V AC to 240 V AC, 50/60 Hz – 240 V DC • Maximum input voltage range: – 90 V AC to 290 V AC, 45 Hz to 66 Hz – 190 V DC to 290 V DC • Maximum input current: – 100 V AC to 240 V AC: 8 A – 240 V DC: 4 A • Rated output current: 50 A • Rated output voltage: 12 V • Rated output power: 600 W • Hot swap: Supported	• CloudEngine S5755-S24T8Y • CloudEngine S5755-S24T8J8YZ • CloudEngine S5755-S48T8Y • CloudEngine S5755-S48T8YZ • CloudEngine S5755-S24N8YZ • CloudEngine S5755-S48N8YZ
 PAC600S56-EB	• Dimensions (H x W x D): 40 mm x 66 mm x 215 mm(1.57 in. x 2.6 in. x 8.46 in.) • Weight: 0.9 kg(1.98 lb) • Rated input voltage range: – 100 V AC to 130 V AC; 50/60 Hz – 100 V AC to 240 V AC, 50/60 Hz – 240 V DC • Maximum input voltage range: – 90 V AC to 290 V AC, 45 Hz to 66 Hz – 190 V DC to 290 V DC • Maximum input current: – 100 V AC to 130 V AC: 8 A – 100 V AC to 240 V AC: 8 A – 240 V DC: 4 A • Rated output current: – 53.5 V: 11.21 A – 55.5 V: 10.81 A • Rated output voltage: 53.5 V or 55.5 V • Rated output power: – 100 V AC to 130 V AC input: 300W – 100 V AC to 240 V AC & 240 V DC input: 600W • Hot swap: Supported	• CloudEngine S5755-S24P8Y • CloudEngine S5755-S24U8Y • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48P8Y • CloudEngine S5755-S48U8Y • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24UN8YZ • CloudEngine S5755-S48UN8YZ

Power Module	Technical Specifications	Applied Switch Model
 PAC1000S56-EB	• Dimensions (H x W x D): 40 mm x 66 mm x 215 mm • Weight: 1.1 kg (2.43 lb) • Rated input voltage range: – 100 V AC to 130 V AC, 50/60 Hz – 200 V AC to 240 V AC, 50/60 Hz – 125V DC to 240 V DC • Maximum input voltage range: – 90 V AC to 290 V AC, 45 Hz to 66 Hz – 100 V DC to 290 V DC • Input current: – 100 V AC to 130 V AC: 12 A – 200 V AC to 240 V AC: 8 A – 240 V DC: 8 A • Rated output current: – 18.69A @53.5V 18.02A @55.5V • Maximum output power: – 400W (100 V DC to 190 V DC) – 900 W (100 V AC to 130 V AC input) – 1000 W (200 V AC to 240 V AC input and 190 v DC to 240 V DC input) • Hot swap: Supported	• CloudEngine S5755-S24P8Y • CloudEngine S5755-S24U8Y • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48P8Y • CloudEngine S5755-S48U8Y • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24UN8YZ • CloudEngine S5755-S48UN8YZ
 PDC1000S56-EB	• Dimensions (H x W x D): 40 mm x 66 mm x 215 mm(1.57 in. x 2.6 in. x 8.46 in.) • Weight: 1 kg(2.20 lb) • Rated input voltage range: -48 V DC to -60 V DC • Maximum input voltage range: -38.4 V DC to -72 V DC • Maximum input current: 30 A • Rated output voltage: 53.5 V or 55.5 V • Rated output current: – 53.5 V: 18.69 A – 55.5 V: 18.02 A • Rated output power: 1000 W • Hot swap: Supported	• CloudEngine S5755-S24P8Y • CloudEngine S5755-S24U8Y • CloudEngine S5755-S24P8J8YZ • CloudEngine S5755-S24U8J8YZ • CloudEngine S5755-S48P8Y • CloudEngine S5755-S48U8Y • CloudEngine S5755-S48P8YZ • CloudEngine S5755-S48U8YZ • CloudEngine S5755-S24UN8YZ • CloudEngine S5755-S48UN8YZ

CloudEngine S5755-S series Gigabit switches support PoE. They have max 3 power module slots.

The following table lists its power supply configurations.

Power supply configurations of CloudEngine S5755-S

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
CloudEngin	1000 W AC (220	–	–	840 W	• 802.3af (15.4 W per port):

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
e S5755-S24P8Y	V)				24 • 802.3at (30 W per port): 24
	1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
	600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (110	1000 W AC (110 V)	1000 W AC (110	840 W	• 802.3af (15.4 W per port):

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
	V) 1000 W DC	1000 W DC	V)		24 • 802.3at (30 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
CloudEngine S5755-S24U8Y	1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
	1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
	1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
	600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
	600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
					• 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
	600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
CloudEngine S5755-S24P8J8YZ	1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16
	600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
CloudEngine S5755-S24U8J8YZ	1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
	1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
	600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 24

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
					• 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
	600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1908 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
CloudEngine S5755-S48P8Y/S5755-S48P8YZ	1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
	1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24
	1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
	600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
	600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45
	600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
CloudEngine S5755-S48U8Y/S5755-S48U8YZ	1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
	1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1728 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 19
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 17
	600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
					• 802.3at (30 W per port): 35 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
	600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2880 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37 • 802.3bt (90 W per port): 25
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1908 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31 • 802.3bt (90 W per port): 21
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2358 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 39 • 802.3bt (90 W per port): 26
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
CloudEngine S5755-S24UN8YZ	1000 W AC (220 V)	–	–	830 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	1000 W AC (110 V)	–	–	740 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
	1000 W DC	–	–	830 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
	600 W AC (220 V)	–	–	496 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	600 W AC (110 V)	–	–	211 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1730 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1550 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
	600 W AC (220 V)	600 W AC (220 V)	–	1066 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1370 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
					• 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
	600 W AC (110 V)	600 W AC (110 V)	–	496 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1636 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1910 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	781 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8
CloudEngine S5755-S48UN8YZ	1000 W AC (220 V)	–	–	785 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
	1000 W AC (110 V)	–	–	695 W	• 802.3af (15.4 W per port): 45 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
	1000 W DC	–	–	785 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8
	600 W AC (220 V)	–	–	448 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 4
	600 W AC (110 V)	–	–	163 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1685 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1505 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16
	600 W AC (220 V)	600 W AC (220 V)	–	1018 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 33 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 11
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1325 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
	600 W AC (110 V)	600 W AC (110 V)	–	448 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14

Model	Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
					• 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 4
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 47 • 802.3bt (90 W per port): 31
	1000 W AC (02314APU-001, 220 V)	1000 W AC (02314APU-001, 220 V)	1000 W AC (02314APU-001, 220 V)	2880 W (supported in V600R025C10 and later versions)	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
	600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1588 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 26 • 802.3bt (90 W per port): 17
	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2225 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37 • 802.3bt (90 W per port): 24
	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1865 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31 • 802.3bt (90 W per port): 20
	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2315 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 38 • 802.3bt (90 W per port): 25
	600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	733 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12

Product Features and Highlights

Enabling Networks to Be More Agile for Services

- CloudEngine S5755-S has a built-in high-speed and flexible processor chip. The chip's flexible packet processing and traffic control capabilities can meet current and future service requirements, helping build a highly scalable network.

- In addition to capabilities of traditional switches, the CloudEngine S5755-S provides open interfaces and supports user-defined forwarding behavior. Enterprises can use the open interfaces to develop new protocols and functions independently or jointly with equipment vendors to build campus networks meeting their own needs.
- CloudEngine S5755-S series switches, on which enterprises can define their own forwarding models, forwarding behavior, and lookup algorithms. Microcode programmability makes it possible to provide new services within six months, without the need of replacing the hardware. In contrast, traditional ASIC chips use a fixed forwarding architecture and follow a fixed forwarding process. For this reason, new services cannot be provisioned until new hardware is developed to support the services one to three years later.

Delivering Abundant Services More Agilely

- With the unified user management function, the unified user management function supports various authentication methods, including 802.1x, Portal, MAC address, and is capable of managing users based on user groups, domains, and time ranges. These functions visualize user and service management and boost the transformation from device-centric management to user experience-centric management.
- The CloudEngine S5755-S provides excellent quality of service(QoS) capabilities and supports queue scheduling and congestion control algorithms. Additionally, it adopts innovative priority queuing and multi-level scheduling mechanisms to implement fine-grained scheduling of data flows, meeting service quality requirements of different user terminals and services.

Providing Fine Granular Network Management More Agilely

- The CloudEngine S5755-S uses the Packet Conservation Algorithm for Internet(iPCA2.0) technology that changes the traditional method of using simulated traffic for fault location. iPCA technology can monitor network quality for any service flow anywhere and anytime, without extra costs. It can detect temporary service interruptions in a very short time and can identify faulty ports accurately. This cutting-edge fault detection technology turns "extensive management" to "fine granular management."

Flexible Ethernet Networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngine S5755-S supports the latest Ethernet Ring Protection Switching (ERPS) standard and complies with IEEE Std 802.3u Fast Ethernet Standard. This protocol is reliable, easy to maintain, and implements fast protection switching within 50 ms. ERPS is defined in ITU-T G.8032. It implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- The CloudEngine S5755-S supports Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One CloudEngine S5755-S switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

Various Security Control Methods

- Huawei switches support post-quantum cryptography (PQC) algorithms and encryption capabilities within transport security protocols, effectively defending against decryption threats posed by quantum computing to deliver future-proof quantum-resistant security for network infrastructure.
- The CloudEngine S5755-S supports 802.1x authentication, MAC address authentication, and hybrid authentication, and can dynamically delivery user policies such as VLANs, QoS policies, and access control lists (ACL). It also supports user management based on user groups.
- The CloudEngine S5755-S provides a series of mechanisms to defend against DoS and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and ICMP flood attacks. User-targeted attacks include bogus DHCP server attacks, IP/MAC address spoofing, DHCP request flood, and change of the DHCP CHADDR value.
- The CloudEngine S5755-S sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.
- The CloudEngine S5755-S supports strict ARP learning, which prevents ARP spoofing attackers from exhausting ARP entries.
- The CloudEngine S5755-S supports Media Access Control Security (MACsec-256) with all downlink ports and uplink ports . It provides identity authentication, data encryption, integrity check, and replay protection to protect Ethernet frames and prevent attack packets.

Mature IPv6 Features

- The CloudEngine S5755-S is developed based on the mature, stable platform and supports IPv4/IPv6 dual stacks, IPv6 routing protocols (RIPng, OSPFv3, BGP4+, and IS-IS for IPv6). With these IPv6 features, the CloudEngine S5755-S can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping achieve IPv4-to-IPv6 transition.

Intelligent Stack (iStack)

- The CloudEngine S5755-S supports the iStack function that combines multiple switches into a logical switch. Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability. iStack provides high network scalability. You can increase a stack's ports, bandwidth, and processing capacity by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, up to nine physical switches can be virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack.

Inter-Device Link Aggregation, Ensuring High Efficiency and Reliability

- The CloudEngine S5755-S supports Multichassis Link Aggregation Group (M-LAG) to implement link aggregation among multiple devices, improving link reliability from the card level to the device level.
- Switches in an M-LAG all work in active state to share traffic and back up each other, enhancing system reliability.
- Switches in an M-LAG system can be upgraded independently. During the upgrade, other switches in the system take over traffic forwarding to ensure uninterrupted services.
- M-LAG supports dual-homing to Ethernet, VXLAN, and IP networks, allowing for flexible networking.

VXLAN Features

- VXLAN is used to construct a Unified Virtual Fabric(UVF). As such, multiple service networks or tenant networks can be deployed on the same physical network, and service and tenant networks are isolated from each other. This capability truly achieves 'one network for multiple purposes'. The resulting benefits include enabling data transmission of different services or customers, reducing the network construction costs, and improving network resource utilization.
- The CloudEngine S5755-S series switches are VXLAN-capable and allow centralized and distributed VXLAN gateway deployment modes. These switches also support the BGP EVPN protocol for dynamically establishing VXLAN tunnels and can be configured using NETCONF/YANG.

Intelligent O&M

- The CloudEngine S5755-S provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer CampusInsight. The CampusInsight analyzes network data based on the intelligent fault identification algorithm, accurately displays the real-time network status, effectively demarcates and locates faults in a timely manner, and identifies network problems that affect user experience, accurately guaranteeing user experience.

PoE Function

- **Perpetual PoE**:When a PoE switch is warm rebooting (Don't turn PSE switch power off), for example, reboot upon the software upgrade, the power supply to PDs is not interrupted.This capability ensures that PDs are not powered off during the switch warm reboot.
- **Fast PoE**: PoE switches can supply power to PDs within seconds after they are powered on. This is different from common switches that generally take 1 to 3 minutes to start to supply power to PDs. When a PoE switch reboots due to a power failure, the PoE switch continues to supply power to the PDs immediately after being powered on without waiting until it finishes reboot. This greatly shortens the power failure time of PDs.

Intelligent Upgrade

- Switches support the intelligent upgrade feature. Specifically, switches obtain the version upgrade path and download the newest version for upgrade from the Huawei Online Upgrade Platform (HOUP). The entire upgrade process is highly automated and achieves one-click upgrade. In addition, preloading the version is supported, which greatly shortens the upgrade time and service interruption time.
- The intelligent upgrade feature greatly simplifies device upgrade operations and makes it possible for the customer to upgrade the version independently. This greatly reduces the customer's maintenance costs. In addition, the upgrade policies on the HOUP platform standardize the upgrade operations, which greatly reduces the risk of upgrade failures.

Big Data Security Collaboration

- The CloudEngine S5755-S switches use NetStream to collect campus network data and then report such data to the Huawei HiSec Insight. The purposes of doing so are to detect network security threats, display the security posture across the entire network, and enable automated or manual response to security threats. The HiSec Insight delivers the security policies to the iMaster NCE-Campus. The iMaster NCE-Campus then delivers such policies to switches that will handle security events accordingly. All these ensure campus network security.

Cloud Management

- The Huawei cloud management platform allows users to configure, monitor, and inspect switches on the cloud, reducing on-site deployment and O&M manpower costs and decreasing network OPEX. Huawei switches support both cloud management and on-premise management modes. These two management modes can be flexibly switched as required to achieve smooth evolution while maximizing return on investment (ROI).

Link Layer Security

- This series switches support MACsec. MACsec protects transmitted Ethernet data frames through identity authentication, data encryption, integrity check, and anti-replay protection, reducing the risks of information leakage and malicious network attacks. With MACsec, these switch models are able to address strict information security requirements of customers in industries such as government and finance.

Open Programmability System(OPS)

- Open Programmability System(OPS) is an open programmable system based on the Python language. IT administrators can program the O&M functions of a switch through Python scripts to quickly innovate functions and implement intelligent O&M.

Licensing

IDN One Software

CloudEngine S5755-S supports both the traditional feature-based licensing mode and the latest Huawei IDN One Software (N1 mode for short) licensing mode. The N1 mode is ideal for deploying Huawei CloudCampus Solution in the on-premises scenario, as it greatly enhances the customer experiences in purchasing and upgrading software services with simplicity.

Software Package Features in N1 Mode

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Basic network functions: Layer 2 functions, IPv4, IPv6, and others Note: For details, see the Service Features	√	√	√
Basic network automation based on the iMaster NCE-Campus: • Basic automation: Plug-and-play • Basic monitoring: Application visualization • NE management: Image and topology management and discovery • User access authentication	×	√	√
Automation and intelligent O&M: Basic functions for intelligent network analysis of CampusInsight.	×	√	√
Advanced network automation and intelligent O&M: VXLAN, free mobility, Endpoint plug&play of iMaster NCE-Campus and Application analysis function of	×	×	√

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
CampusInsight, Smart Anomaly Detection (SmartAD)			

Product Specifications

Functions and Features

Category	Service Feature
MAC address table	Automatic MAC address learning, synchronization, and aging
	Static MAC address and dynamic MAC address management
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
	MAC address learning limiting based on ports
VLAN	Support for 4K VLANs simultaneously
	Voice VLAN
	MUX VLAN
	Super-VLAN and sub-VLAN
	VLAN stacking and VLAN mapping
	LNP, VCMP, and GVRP
	Basic QinQ and selective QinQ
Layer 2 ring network protocol	Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protective switchover
	ERPS (G.8032) support, enabling less than 50 ms switchover upon a fault
	STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s), and VBST
	BPDU protection, root protection, and loop protection
	BPDU tunnel
	SEP
Detection protocol	LBDT, L2PT, and DLDP
	Smart Link and Monitor Link
	802.1ag, 802.3ah, and Y.1731
Multicast	PIM DM, PIM SM, and PIM SSM
	IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, and MLD snooping
	IPv4/IPv6 multicast routing and multicast load balancing
	IP multicast over VXLAN, including Layer 2/Layer 3 multicast over VXLAN
	Multicast traffic statistics on a per-port basis
	Multicast VLAN and static multicast MAC

Category	Service Feature
IP services	Dual-stack IPv4 and IPv6
	ARP
	Neighbor discovery (ND)
	DNS，mDNS
	DHCPv4 client, DHCPv4 relay, and DHCPv4 snooping
	DHCPv6 client, DHCPv6 relay, and DHCPv6 snooping
	URPF
	6to4 Tunnel、6over4 Tunnel、4over6 Tunnel、6PE
	IPv4/v6 ping, tracert, and telnet
IP routing	Static route, routing policy, and policy-based routing
	RIPv1/v2, RIPng, OSPFv2, OSPFv3, IS-IS, ISISv6, BGP, and BGP4+
Segment routing	SRv6 BE (L3 EVPN)
	BGP EVPN
	SRv6 configuration through NETCONF
VXLAN	VXLAN distributed gateway and centralized gateway modes
	BGP EVPN
	VXLAN Layer 2 forwarding
	VXLAN Layer 3 forwarding
	VXLAN configuration through NETCONF and SDN-based automated wired network deployment
	VXLAN-Routing, VXLAN-Bridge, VXLAN-Tunnel, and VXLAN-Access
Reliability	LACP
	M-LAG
	VRRP
	BFD
	LLDP
User access and authentication	Multiple authentication methods, including AAA, RADIUS, and HWTACACS
	Policy association
	Endpoint identification and unauthorized access prevention
	Scanning-based identification, flow information identification, and fingerprint identification.
	NAC Authentication in an M-LAG Scenario
	Free mobility
	802.1X, MAC address, and Portal authentication
QoS/ACL	Rate limiting on packets sent and received by a port
	MQC

Category	Service Feature
	Packet redirection
	Port-based traffic policing and two-rate three-color CAR
	Eight queues on each port
	SP, DRR, WDRR, SP+DRR, and SP+WDRR queue scheduling algorithms
	WRED
	Marking of 802.1p and DSCP priorities of packets
	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 source port number/destination port number, protocol type, and VLAN ID
	Rate limiting in each queue and traffic shaping on ports
	VLAN slicing
Security features	Hierarchical user management and password protection
	DoS attack defense, ARP attack defense, and ICMP attack defense
	Binding of the IP address, MAC address, port number, and VLAN ID
	Port isolation, port security, and sticky MAC
	ARP security features, including ARP snooping, ND snooping, ARP conflict detection, Dynamic ARP Inspection (DAI), and Egress ARP Inspection (EAI).
	Blackhole MAC addresses
	Unknown unicast, unknown multicast, and broadcast storm control on a per-port basis
	IEEE 802.1X authentication, with per-port maximum user limits
	IP Source Guard (IPSG)
	Smart Anomaly Detection (SmartAD)
	Public Key Infrastructure (PKI)
	SSH v2.0
	HTTPS
	MACsec supported on all ports
	PQC support in SSH/TLS
	CPU protection and attack defense
	Blacklist and whitelist mechanisms
	Host Intrusion Prevention System (HIPS) and Federal Information Processing Standard (FIPS)
	Source Address Validation Improvement (SAVI)
Network management and monitoring	iStack and fast stack upgrade, Up to 9 switches in a stack
	SNMPv1/v2c/v3
	NETCONF/YANG-based cloud management
	Management via the eSight or web system
	RMON

Category	Service Feature
	iPCA, Netstream, sFlow, NQA and Telemetry
	Port mirroring, traffic mirroring, RSPAN, and ERSPAN
	Packet loss visibility
	Application identification
	iFlow-based full-flow quality degradation analysis
	USB-based deployment, deployment through the registration query center, and SZTP
	RESTCONF, gRPC, and EVA
Network maintenance	Telnet for remote configuration and maintenance
	Ping and traceroute
	Virtual Cable Test (VCT)
	FTP, SFTP, and TFTP file management
	Time management
	CPU and memory resource monitoring
	System logs and hierarchical alarms
	Hot patching
	User operation logs
	IEEE 802.3az Energy-Efficient Ethernet (EEE)
	Configuration rollback
	Webmaster-based management
Interoperability	VBST (compatible with PVST/PVST+/RPVST)

Hardware Specifications

The following table lists the hardware specifications of the CloudEngine S5755-S.

Hardware specifications of CloudEngine S5755-S models

Item		CloudEngine S5755-S24T8Y	CloudEngine S5755-S24P8Y	CloudEngine S5755-S24U8Y
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	6.83 kg	6.93 kg	6.91 kg
Fixed port	GE port	24	24	24
	25GE SFP28 port	8	8	8
Management port	ETH port	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0

Item		CloudEngine S5755-S24T8Y	CloudEngine S5755-S24P8Y	CloudEngine S5755-S24U8Y
CPU	Frequency	1.2 GHz	1.2 GHz	1.2 GHz
	Cores	4	4	4
Storage	Memory (RAM)	4 GB	4 GB	4 GB
	Flash memory	1 GB	1 GB	1 GB
Power supply system	Power supply type	• 80 W AC (pluggable) • 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 48 W (all ports used, two 80 W AC power modules) • 45 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 62 W (all ports used) • Full PoE load, three 1000 W power modules: 975 W (PoE: 840 W)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 62 W (all ports used) • Full PoE load, three 1000 W power modules: 2528 W (PoE: 2268 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 46 W (all ports used, two 80 W AC power modules) • 43 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 60 W (all ports used)	0% traffic under the ATIS standard, dual power modules: • 60 W (all ports used)
	Static power consumption	21 W	29 W	29 W
Heat dissipation	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment

Item		CloudEngine S5755-S24T8Y	CloudEngine S5755-S24P8Y	CloudEngine S5755-S24U8Y
system	Number of fan modules	2, Built-in	2, Built-in	2, Built-in
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: - 163.78 (all ports used, two 80 W AC power modules) - 153.54 (all ports used, two 240 W DC power modules)	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 211.55 (all ports used) - Full PoE load, three 1000 W power modules: 3326.75	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 211.55 (all ports used) - Full PoE load, three 1000 W power modules: 8625.67
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Short-term operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)*	50.7 dBA	30% load: 52.2 dBA	30% PoE load: 52.20 dBA
	Noise under normal temperature (sound pressure)*	37.0 dBA	30% load: 38.5 dBA	30% PoE load: 38.5 dBA
	Surge protection specification (power port)	• 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	• 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	• 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
Reliability	MTBF (year)	129.56	109.32	101.28
	MTTR (hour)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999

Item	CloudEngine S5755-S24T8Y	CloudEngine S5755-S24P8Y	CloudEngine S5755-S24U8Y
Certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Item		CloudEngine S5755-S24T8J8YZ	CloudEngine S5755-S24P8J8YZ	CloudEngine S5755-S24U8J8YZ
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	7.33 kg	7.57 kg	7.57 kg
Fixed port	GE port	24	24	24
	2.5GE SFP port	8	8	8
	25GE SFP28 port	8	8	8
Extended slot	HSIC-X08S000	8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE)		
	HSIC-Q04S000	4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE）		
Management port	ETH port	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1.2 GHz	1.2 GHz	1.2 GHz
	Cores	4	4	4
Storage	Memory (RAM)	4 GB	4 GB	4 GB
	Flash memory	1 GB	1 GB	1 GB
Power supply system	Power supply type	• 80 W AC (pluggable) • 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input:	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input:	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input:

Item		CloudEngine S5755-S24T8J8YZ	CloudEngine S5755-S24P8J8YZ	CloudEngine S5755-S24U8J8YZ
		190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 62 W (all ports used, two 80 W AC power modules) • 58 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 77 W (all ports used) • Full PoE load, three 1000 W power modules: 990 W (PoE: 840 W)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 77 W (all ports used) • Full PoE load, three 1000 W power modules: 2542 W (PoE: 2268 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 59 W (all ports used, two 80 W AC power modules) • 55 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 74 W (all ports used)	0% traffic under the ATIS standard, dual power modules: • 74 W (all ports used)
	Static power consumption	29 W	37 W	37 W
Heat dissipation system	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment
	Number of fan modules	2, Pluggable	2, Pluggable	2, Pluggable
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: - 211.55 (all ports used, two 80 W AC power modules) - 197.90 (all ports used, two 240 W DC power modules)	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 262.73 (all ports used) - Full PoE load, three 1000 W power modules: 3377.93	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 262.73 (all ports used) - Full PoE load, three 1000 W power modules: 8673.44
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Short-term operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature

Item		CloudEngine S5755-S24T8J8YZ	CloudEngine S5755-S24P8J8YZ	CloudEngine S5755-S24U8J8YZ
		decreases 1°C every time the altitude increases 220 m	decreases 1°C every time the altitude increases 220 m	decreases 1°C every time the altitude increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)*	51.1 dBA	30% PoE load: 52.50 dBA	30% PoE load: 52.50 dBA
	Noise under normal temperature (sound pressure)*	37.4 dBA	30% PoE load: 38.8 dBA	30% PoE load: 38.8 dBA
	Surge protection specification (power port)	• 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	• 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	• 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
Reliability	MTBF (year)	112.66	94.62	90.65
	MTTR (hour)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Item		CloudEngine S5755-S48T8Y	CloudEngine S5755-S48P8Y	CloudEngine S5755-S48U8Y
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	7.61 kg	7.95 kg	7.98 kg
Fixed port	GE port	48	48	48
	25GE SFP28 port	8	8	8
Management port	ETH port	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1.2 GHz	1.2 GHz	1.2 GHz
	Cores	4	4	4

Item		CloudEngine S5755-S48T8Y	CloudEngine S5755-S48P8Y	CloudEngine S5755-S48U8Y
Storage	Memory (RAM)	4 GB	4 GB	4 GB
	Flash memory	1 GB	1 GB	1 GB
Power supply system	Power supply type	• 80 W AC (pluggable) • 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 58 W (all ports used, two 80 W AC power modules) • 54 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 74 W (all ports used) • Full PoE load, three 1000 W power modules: 1881 W (PoE: 1680 W)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 74 W (all ports used) • Full PoE load, three 1000 W power modules: 3171 W (PoE: 2880 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 56 W (all ports used, two 80 W AC power modules) • 53 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 72 W (all ports used)	30% traffic under the ATIS standard, dual power modules: • 72 W (all ports used)
	Static power consumption	24 W	34 W	34 W
Heat dissipation system	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment
	Number of fan modules	2, Built-in	2, Built-in	2, Built-in

Item		CloudEngine S5755-S48T8Y	CloudEngine S5755-S48P8Y	CloudEngine S5755-S48U8Y
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: - 197.90 (all ports used, two 80 W AC power modules) - 184.25 (all ports used, two 240 W DC power modules)	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 252.49 (all ports used) - Full PoE load, three 1000 W power modules: 6418.08	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 252.49 (all ports used) - Full PoE load, three 1000 W power modules: 10819.63
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Short-term operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)*	50.7 dBA	30% PoE load: 52.20 dBA	30% PoE load: 52.20 dBA
	Noise under normal temperature (sound pressure)*	37.0 dBA	30% PoE load: 38.5 dBA	30% PoE load: 38.5 dBA
	Surge protection specification (power port)	• 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	• 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	• 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
Reliability	MTBF (year)	123.8	92.12	83.43
	MTTR (hour)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		• EMC certification	• EMC certification	• EMC certification

Item	CloudEngine S5755-S48T8Y	CloudEngine S5755-S48P8Y	CloudEngine S5755-S48U8Y
	• Safety certification • Manufacturing certification	• Safety certification • Manufacturing certification	• Safety certification • Manufacturing certification

Item		CloudEngine S5755-S48T8YZ	CloudEngine S5755-S48P8YZ	CloudEngine S5755-S48U8YZ
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	8.15 kg	8.47 kg	8.50 kg
Fixed port	GE port	48	48	48
	25GE SFP28 port	8	8	8
Extended slot	HSIC-X08S000	8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE)		
	HSIC-Q04S000	4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE）		
Management port	ETH port	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1.2 GHz	1.2 GHz	1.2 GHz
	Cores	4	4	4
Storage	Memory (RAM)	4 GB	4 GB	4 GB
	Flash memory	1 GB	1 GB	1 GB
Power supply system	Power supply type	• 80 W AC (pluggable) • 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to

Item		CloudEngine S5755-S48T8YZ	CloudEngine S5755-S48P8YZ	CloudEngine S5755-S48U8YZ
		-72 V DC	-72 V DC	-72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 56 W (all ports used, two 80 W AC power modules) • 53 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 73 W (all ports used) • Full PoE load, three 1000 W power modules: 1880 W (PoE: 1680 W)	100% traffic under the ATIS standard, dual power modules, and without PoE: • 73 W (all ports used) • Full PoE load, three 1000 W power modules: 3170 W (PoE: 2880 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 54 W (all ports used, two 80 W AC power modules) • 51 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 71 W (all ports used)	30% traffic under the ATIS standard, dual power modules: • 71 W (all ports used)
	Static power consumption	23 W	34 W	34 W
Heat dissipation system	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment
	Number of fan modules	2, Pluggable	2, Pluggable	2, Pluggable
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: - 191.08 (all ports used, two 80 W AC power modules) - 180.84 (all ports used, two 240 W DC power modules)	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 249.08 (all ports used) - Full PoE load, three 1000 W power modules: 6414.66	- 100% traffic under the ATIS standard, dual power modules, and without PoE: - 249.08 (all ports used) - Full PoE load, three 1000 W power modules: 10816.21
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Short-term operating temperature	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude	• 0-1800 m: -5°C to 50°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude

Item		CloudEngine S5755-S48T8YZ	CloudEngine S5755-S48P8YZ	CloudEngine S5755-S48U8YZ
		increases 220 m	increases 220 m	increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)*	51.6 dBA	30% PoE load: 52.9 dBA	30% PoE load: 52.9 dBA
	Noise under normal temperature (sound pressure)*	37.9 dBA	30% PoE load: 39.2 dBA	30% PoE load: 39.2 dBA
	Surge protection specification (power port)	• 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	• 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	• 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
Reliability	MTBF (year)	109.98	89.6	81.37
	MTTR (hour)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Item		CloudEngine S5755-S24N8YZ	CloudEngine S5755-S24UN8YZ
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U
	Chassis weight (including packaging)	7.41 kg	7.63 kg
Fixed port	2.5GE port	24	24
	25GE SFP28 port	8	8
Extended slot	HSIC-X08S000	8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE)	
	HSIC-Q04S000	4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE）	
Management port	ETH port	Supported	Supported
	Console port (RJ45)	Supported	Supported
	USB port	USB 2.0	USB 2.0
CPU	Frequency	1.2 GHz	1.2 GHz
	Cores	4	4

Item		CloudEngine S5755-S24N8YZ	CloudEngine S5755-S24UN8YZ
Storage	Memory (RAM)	4 GB	4 GB
	Flash memory	1 GB	1 GB
Power supply system	Power supply type	• 80 W AC (pluggable) • 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 600 W PoE AC (pluggable) • 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 66 W (all ports used, two 80 W AC power modules) • 64 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules: • Without PoE: 92 W (all ports used) • Full PoE load, three 1000 W power modules: 2745 W (PoE: 2268 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 60 W (all ports used, two 80 W AC power modules) • 58 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 90 W (all ports used)
	Static power consumption	30 W	40 W
Heat dissipation system	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment
	Number of fan modules	2, Pluggable	2, Pluggable
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: • 225.20 (all ports used, two 80 W AC power modules) • 218.37 (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules: • Without PoE:313.91 (all ports used) • Full PoE load, three 1000 W power modules: 6414.66
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every

Item		CloudEngine S5755-S24N8YZ	CloudEngine S5755-S24UN8YZ
		220 m	time the altitude increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	5000 m	5000 m
	Noise under normal temperature (sound power)*	50 dBA	51.1 dBA
	Noise under normal temperature (sound pressure)*	33.32 dBA	37.42 dBA
	Surge protection specification (power port)	• 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	• 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
Reliability	MTBF (year)	57.52	45.9
	Availability	> 0.99999	> 0.99999
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Item		CloudEngine S5755-S48N8YZ	CloudEngine S5755-S48UN8YZ
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 420	43.6 x 442 x 420
	Chassis height	1 U	1 U
	Chassis weight (including packaging)	8.10 kg	8.35 kg
Fixed port	2.5GE port	48	48
	25GE SFP28 port	8	8
Extended slot	HSIC-X08S000	8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE)	
	HSIC-Q04S000	4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE）	
Management port	ETH port	Supported	Supported
	Console port (RJ45)	Supported	Supported
	USB port	USB 2.0	USB 2.0
CPU	Frequency	1.2 GHz	1.2 GHz
	Cores	4	4
Storage	Memory (RAM)	4 GB	4 GB
	Flash memory	1 GB	1 GB
Power	Power supply type	• 80 W AC (pluggable)	• 600 W PoE AC (pluggable)

Item		CloudEngine S5755-S48N8YZ	CloudEngine S5755-S48UN8YZ
supply system		• 180 W AC (pluggable) • 240 W DC (pluggable) • 600 W AC (pluggable)	• 1000 W PoE AC (pluggable) • 1000 W PoE DC (pluggable)
	Rated voltage range	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC	• AC input : 100 V AC to 130 V AC, 200 V AC to 240 V AC，50/60 Hz • High-Voltage DC input: 240 V DC • DC input : -48 VDC to -60 V DC
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-Voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
	Maximum power consumption	100% traffic under the ATIS standard, dual power modules: • 118 W (all ports used, two 180 W AC power modules) • 108 W (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules: • Without PoE: 143 W (all ports used) • Full PoE load, three 1000 W power modules: 3319 W (PoE: 2833 W)
	Typical power consumption	30% traffic under the ATIS standard, dual power modules: • 106 W (all ports used, two 180 W AC power modules) • 98 W (all ports used, two 240 W DC power modules)	30% traffic under the ATIS standard, dual power modules: • 138 W (all ports used)
	Static power consumption	55 W	64 W
Heat dissipation system	Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment	Air cooling for heat dissipation, intelligent fan speed adjustment
	Number of fan modules	2, Pluggable	2, Pluggable
	Airflow	Air intake from front, air exhaustion from rear (front-to-rear)	Air intake from front, air exhaustion from rear (front-to-rear)
	Maximum heat dissipation of the device (BTU/hour)	100% traffic under the ATIS standard, dual power modules: • 402.63 (all ports used, two 180 W AC power modules) • 368.511 (all ports used, two 240 W DC power modules)	100% traffic under the ATIS standard, dual power modules: • Without PoE: 487.93 (all ports used) • Full PoE load, three 1000 W power modules: 8005.76
Environment parameters	Long-term operating temperature	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m	• 0-1800 m: -5°C to 45°C • 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m
	Storage temperature	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)

Item		CloudEngine S5755-S48N8YZ	CloudEngine S5755-S48UN8YZ
	Operating altitude	5000 m	5000 m
	Noise under normal temperature (sound power)*	51.1 dBA	51.1 dBA
	Noise under normal temperature (sound pressure)*	34.42 dBA	37.42 dBA
	Surge protection specification (power port)	• 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	• 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
Reliability	MTBF (year)	41.45	37.92
	Availability	> 0.99999	> 0.99999
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

NOTE

1: Noise under normal temperature (sound power) and Noise under normal temperature (sound pressure) are tested based on ISO7779.

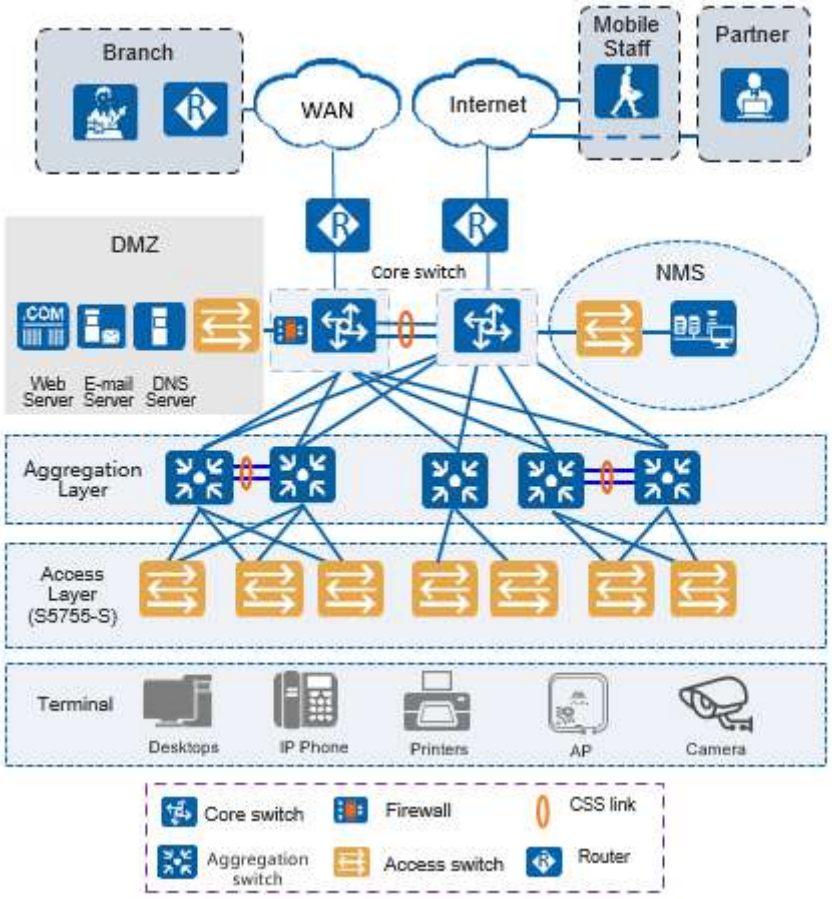
Performance Specification

Entries	S5755-S series switches
Number of dynamic MAC address entries	330000
Number of static MAC address entries	4096
Maximum number of VLANs	4094
Number of VLANIF interfaces	1024
IPv4 routing entries	256000
IPv6 routing entries	128000
Number of ARP entries	16000
Number of ND entries	16000
ACL scale entries	5.5K@160b or 2.5K@320b (inbound direction) + 1K@320b (outbound direction) (K=1024)
IPv4/IPv6 multicast L2 entries	2K
IPv4/IPv6 multicast L3 entries	2K
Device buffer (byte)	9MB
Jumbo frames	9600

Networking and Applications

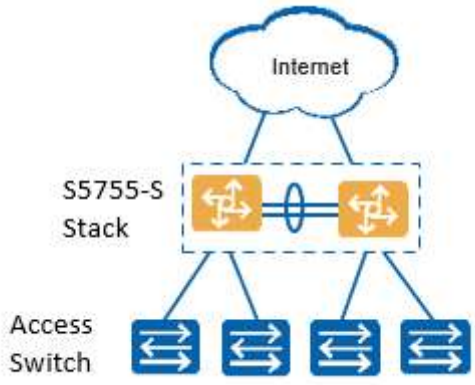
Large-Scale Enterprise Campus Network

CloudEngine S5755-S series switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.



Small-scale Enterprise Campus Network

With powerful aggregation and routing capabilities of CloudEngine S5755-S series switches make them suitable for use as core switches in a small-scale enterprise network. Two or more S5755-S switches use iStack technology to ensure high reliability. They provide a variety of access control policies to achieve centralized management and simplify configuration.



Safety and Regulatory Compliance

The following table lists the safety and regulatory compliance of the CloudEngine S5755-S.

Certification Category	Description
Safety	IEC 62368-1
	EN 62368-1
	UL 62368-1
	CSA C22.2 No 62368-1
Electromagnetic Compatibility (EMC)	CISPR32
	CISPR35
	EN 55032
	EN 55035
	ETSI EN 300 386
	CFR 47 FCC Part 15
	ICES 003
	AS/NZS CISPR32
	VCCI
	IEC61000-4-2
Environment	RoHS
	REACH
	WEEE
Laser safety	IEC60825-1
	IEC60825-2
	EN60825-1
	EN60825-2

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

MIB and Standards Compliance

Supported MIBs

The following table lists the MIBs supported by the CloudEngine S5755-S.

MIBs supported by the CloudEngine S5755-S series

Category	MIB
Public MIB	• BRIDGE-MIB • DISMAN-NSLOOKUP-MIB • DISMAN-PING-MIB • DISMAN-TRACEROUTE-MIB • ENTITY-MIB • EtherLike-MIB • IF-MIB • IP-FORWARD-MIB • IPv6-MIB • LAG-MIB • LLDP-EXT-DOT1-MIB • LLDP-EXT-DOT3-MIB • LLDP-MIB • MPLS-FTN-STD-MIB • MPLS-L3VPN-STD-MIB • MPLS-LDP-GENERIC-STD-MIB • MPLS-LDP-STD-MIB • MPLS-LSR-STD-MIB • MPLS-TE-STD-MIB • NOTIFICATION-LOG-MIB • NQA-MIB • OSPF-TRAP-MIB • P-BRIDGE-MIB • Q-BRIDGE-MIB • RFC1213-MIB • RIPv2-MIB • RMON2-MIB • RMON-MIB • SAVI-MIB • SNMP-FRAMEWORK-MIB • SNMP-MPD-MIB • SNMP-NOTIFICATION-MIB • SNMP-TARGET-MIB • SNMP-USER-BASED-SM-MIB • SNMPv2-MIB • TCP-MIB

Category	MIB
	• UDP-MIB
Huawei-proprietary MIB	• HUAWEI-AAA-MIB • HUAWEI-ACL-MIB • HUAWEI-ALARM-MIB • HUAWEI-ALARM-RELIABILITY-MIB • HUAWEI-BASE-TRAP-MIB • HUAWEI-BRAS-RADIUS-MIB • HUAWEI-BRAS-SRVCFG-EAP-MIB • HUAWEI-BRAS-SRVCFG-STATICUSER-MIB • HUAWEI-CBQOS-MIB • HUAWEI-CDP-COMPLIANCE-MIB • HUAWEI-CONFIG-MAN-MIB • HUAWEI-CPU-MIB • HUAWEI-DAD-TRAP-MIB • HUAWEI-DC-MIB • HUAWEI-DATASYNC-MIB • HUAWEI-DEVICE-MIB • HUAWEI-DHCPR-MIB • HUAWEI-DHCPS-MIB • HUAWEI-DHCP-SNOOPING-MIB • HUAWEI-DIE-MIB • HUAWEI-DNS-MIB • HUAWEI-DLDP-MIB • HUAWEI-ELMI-MIB • HUAWEI-ERPS-MIB • HUAWEI-ERRORDOWN-MIB • HUAWEI-ENERGYMNGT-MIB • HUAWEI-EASY-OPERATION-MIB • HUAWEI-ENTITY-EXTENT-MIB • HUAWEI-ENTITY-TRAP-MIB • HUAWEI-ETHARP-MIB • HUAWEI-ETHOAM-MIB • HUAWEI-FLASH-MAN-MIB • HUAWEI-FWD-RES-TRAP-MIB • HUAWEI-GARP-APP-MIB • HUAWEI-GTSM-MIB • HUAWEI-HGMP-MIB • HUAWEI-HWTACACS-MIB • HUAWEI-IF-EXT-MIB • HUAWEI-INFOCENTER-MIB • HUAWEI-IPPOOL-MIB • HUAWEI-IPV6-MIB • HUAWEI-ISOLATE-MIB • HUAWEI-L2IF-MIB

Category	MIB
	• HUAWEI-L2MAM-MIB • HUAWEI-L2VLAN-MIB • HUAWEI_LDT-MIB • HUAWEI-LLDP-MIB • HUAWEI-MAC-AUTHEN-MIB • HUAWEI-MEMORY-MIB • HUAWEI-MFF-MIB • HUAWEI-MFLP-MIB • HUAWEI-MSTP-MIB • HUAWEI-BGP-VPN-MIB • HUAWEI-CCC-MIB • HUAWEI-MULTICAST-MIB • HUAWEI-NAP-MIB • HUAWEI-NTPV3-MIB • HUAWEI-PERFORMANCE-MIB • HUAWEI-PORT-MIB • HUAWEI-PORTAL-MIB • HUAWEI-QINQ-MIB • HUAWEI-RIPv2-EXT-MIB • HUAWEI-RM-EXT-MIB • HUAWEI-RRPP-MIB • HUAWEI-SECURITY-MIB • HUAWEI-SEP-MIB • HUAWEI-SNMP-EXT-MIB • HUAWEI-SSH-MIB • HUAWEI-STACK-MIB • HUAWEI-SWITCH-L2MAM-EXT-MIB • HUAWEI-SWITCH-SRV-TRAP-MIB • HUAWEI-SYS-MAN-MIB • HUAWEI-TCP-MIB • HUAWEI-TFTPC-MIB • HUAWEI-TRNG-MIB • HUAWEI-XQOS-MIB

Standard Compliance

The following table lists the standards that the CloudEngine S5755-S complies with.

Standard compliance list of the CloudEngine S5755-S series

Standard Organization	Standard or Protocol
EMC	• EN61000-3-2 • EN61000-3-3
IETF	• RFC 768 User Datagram Protocol (UDP) • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 Transmission Control Protocol (TCP)

Standard Organization	Standard or Protocol
	• 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 • 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/Relay • 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+ • RFC 6241 Network Configuration Protocol (NETCONF) • RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)
IEEE	• IEEE 802.1D Media Access Control (MAC) Bridges • IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering • IEEE 802.1Q Virtual Bridged Local Area Networks

Standard Organization	Standard or Protocol
	• 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 802.3ab RJ45 con Auto-MDIX • 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 802.1ag 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 • IEEE 802.1x Port based network access control protocol • IEEE 802.3az Automatic power adjustment on Ethernet interfaces • IEEE 802.1v - VLAN Classification by Protocol and Port • IEEE 802.3BY Media Access Control, Physical Layers, and Management for 25 Gb/s Operation
ITU	• ITU SG13 Y.17ethoam • ITU SG13 QoS control Ethernet-Based IP Access
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

Ordering Information

The following table lists ordering information of the CloudEngine S5755-S series switches.

Model	Product Description
CloudEngine S5755-S24T8Y	S5755-S24T8Y (24*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, without power module)
CloudEngine S5755-S24P8Y	S5755-S24P8Y (24*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, without power module)

Model	Product Description
CloudEngine S5755-S24U8Y	S5755-S24U8Y (24*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, without power module)
CloudEngine S5755-S24T8J8YZ	S5755-S24T8J8YZ (24*10/100/1000 BASE-T ports, 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S24P8J8YZ	S5755-S24P8J8YZ (24*10/100/1000 BASE-T ports (PoE+), 8*2.5GE SFP ports, 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S24U8J8YZ	S5755-S24U8J8YZ (24*10/100/1000 BASE-T ports (PoE++), 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S48T8Y	S5755-S48T8Y (48*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, without power module)
CloudEngine S5755-S48P8Y	S5755-S48P8Y (48*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, without power module)
CloudEngine S5755-S48U8Y	S5755-S48U8Y (48*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, without power module)
CloudEngine S5755-S48T8YZ	S5755-S48T8YZ (48*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S48P8YZ	S5755-S48P8YZ (48*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S48U8YZ	S5755-S48U8YZ (48*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S24N8YZ	S5755-S24N8YZ (24*10/100/1000/2.5G BASE-T ports, 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S24UN8YZ	S5755-S24UN8YZ (24*10/100/1000/2.5G BASE-T ports (PoE++), 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S48N8YZ	S5755-S48N8YZ (48*10/100/1000/2.5G BASE-T ports, 8*25GE SFP28 ports, expansion card slot, without power module)
CloudEngine S5755-S48UN8YZ	S5755-S48UN8YZ (48*10/100/1000/2.5G BASE-T ports (PoE++), 8*25GE SFP28 ports, expansion card slot, without power module)
PAC80S12-CN	80 W AC Power Module
PAC180S12-CN	180 W AC&240 V DC Power Module
PDC240S12-CN	240W DC Power Module
PAC600S12-PB	600 W AC Power Module
PAC600S56-EB	600W PoE AC&240 V DC Power Module
PAC1000S56-EB	1000 W PoE AC&240 V DC Power Module
PDC1000S56-EB	1000 W PoE DC Power Module
FAN-023A-B	Fan module
HSIC-X08S000	4*25GE SFP28 ports (only ports 1 to 4 support 25GE)
HSIC-Q04S000	Interface card with 4*40GE QSFP ports
N1-S57S-M-Lic	S57XX-S Series Basic SW, Per Device
N1-S57S-M-SnS1Y	S57XX-S Series Basic SW, SnS, Per Device,1Year

Model	Product Description
N1-S57S-F-Lic	N1-CloudCampus, Foundation, S57XX-S Series, Per Device
N1-S57S-F-SnS1Y	N1-CloudCampus, Foundation, S57XX-S Series, SnS, Per Device,1Year
N1-S57S-A-Lic	N1-CloudCampus, Advanced, S57XX-S Series, Per Device
N1-S57S-A-SnS1Y	N1-CloudCampus, Advanced, S57XX-S Series, SnS, Per Device,1Year
N1-S57S-FToA-Lic	N1-Upgrade-Foundation to Advanced, S57XX-S, Per Device
N1-S57S-FToA-SnS1Y	N1-Upgrade-Foundation to Advanced, S57XX-S, SnS, Per Device,1Year
N1-S57S-A-NVXLAN-Lic	N1-CloudCampus, Advanced non-vxlan, S57XX-S Series, Per Device
N1-S57S-A-NVXLAN-SnS1Y	N1-CloudCampus, Advanced non-vxlan, S57XX-S Series, SnS, Per Device,1 Year
N1-S57S-F2A-NVXLAN-Lic	N1-Upgrade-Foundation to Advanced non-vxlan, S57XX-S, Per Device
N1-S57S-F2A-NVXLAN-SnS1Y	N1-Upgrade-Foundation to Advanced non-vxlan, S57XX-S, SnS, Per Device,1 Year

More Information

For more information about Huawei Campus Switches, visit http://e.huawei.com or contact us in the following ways:

- Global service hotline: http://e.huawei.com/en/service-hotline
- Logging in to the Huawei Enterprise technical support website: http://support.huawei.com/enterprise/
- Sending an email to the customer service mailbox: support_e@huawei.com

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Huawei Technologies Co., Ltd.

Address:Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website:e.huawei.com