Huawei CloudEngine S5751R-L Series Switches Brochure

Huawei CloudEngine S5751R-L series are simplified GE switches designed for SMB market, that provide 8/24 x GE downlink ports to meet network construction requirements in different service scenarios.

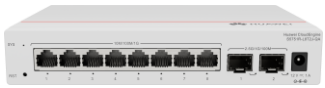
Product Overview

CloudEngine S5751R-L series switches (S5751R-L for short) are new-generation GE switches for the enterprise network market. They provide 8-port and 24-port GE electrical ports and support 2.5GE electrical ports. Connects to Wi-Fi 7 and can be deployed in small campuses and commercial markets to meet integrated access requirements of wired and wireless terminals.

Models and Appearances

The following models are available in the CloudEngine S5751R-L series.

Models and appearances of the CloudEngine S5751R-L series

Models and Appearances	Description
 CloudEngine S5751R-L8T2J-QA	• 8 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP ports • Power adapter power supply • Forwarding performance: 19.5 Mpps • Switching capacity: 26 Gbps/98 Gbps*
 CloudEngine S5751R-L8P2J-QA	• 8 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP ports • Power adapter power supply • PoE+ • Forwarding performance: 19.5 Mpps • Switching capacity: 26 Gbps/98 Gbps*
 CloudEngine S5751R-L8T2X-QA	• 8 x 10/100/1000Base-T ports, 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • Forwarding performance: 42 Mpps • Switching capacity: 56 Gbps/98 Gbps*
 CloudEngine S5751R-L8P2X-QA	• 8 x 10/100/1000Base-T ports, 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • PoE+ • Forwarding performance: 42 Mpps • Switching capacity: 56 Gbps/98 Gbps*

Models and Appearances	Description
 CloudEngine S5751R-L8P2PN2X-QA	• 6 x 10/100/1000Base-T ports(PoE+), 2 x 10/100/1000Base-T ports, 2 x 10/100/1000M/2.5GE Base-T ports(PoE+), 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • PoE+ • Forwarding performance: 49.5 Mpps • Switching capacity: 66 Gbps/98 Gbps*
 CloudEngine S5751R-L4LP8UN2X-QA	• 4 x 10/100/1000Base-T ports(PoE+), 8 x 10/100/1000M/2.5GE Base-T ports(4 PoE+, 4 PoE++), 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • PoE+/PoE++ • Forwarding performance: 66 Mpps • Switching capacity: 88 Gbps/98 Gbps*
 CloudEngine S5751R-L8LP4UN2X-QA	• 8 x 10/100/1000Base-T ports(PoE+), 4 x 10/100/1000M/2.5GE Base-T ports(PoE++), 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • PoE+/PoE++ • Forwarding performance: 57 Mpps • Switching capacity: 76 Gbps/98 Gbps*
 CloudEngine S5751R-L16LP4UN2X-QA	• 16 x 10/100/1000Base-T ports(PoE+), 4 x 10/100/1000M/2.5GE Base-T ports(PoE++), 2 x 100M/1/2.5/10GE SFP+ ports • Power adapter power supply • PoE+/PoE++ • Forwarding performance: 69 Mpps • Switching capacity: 92 Gbps/98 Gbps*
 CloudEngine S5751R-L24T4J-QA	• 24 x 10/100/1000Base-T ports, 4 x 100M/GE/2.5GE SFP ports • Built-in AC power supply • Forwarding performance: 51 Mpps • Switching capacity: 68 Gbps/98 Gbps*
 CloudEngine S5751R-L24T2J2X-QA	• 24 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP, 2 x 100M/GE/2.5/10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 73.5 Mpps • Switching capacity: 98 Gbps/98 Gbps*
 CloudEngine S5751R-L24P4J-A	• 24 x 10/100/1000Base-T ports, 4 x 100M/GE/2.5GE SFP ports • Built-in AC power supply • PoE+ • Forwarding performance: 51 Mpps • Switching capacity: 68 Gbps/98 Gbps*
 CloudEngine S5751R-L24P2J2X-A	• 24 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP, 2 x 100M/GE/2.5/10GE SFP+ ports • Built-in AC power supply • PoE+ • Forwarding performance: 73.5 Mpps

Models and Appearances	Description
	• Switching capacity: 98 Gbps/98 Gbps*
 CloudEngine S5751R-L24P2PN2J2X-A	• 22 x 10/100/1000Base-T(PoE+), 2 x 10/100/1000Base-T ports, 2 x 10/100/1000M/2.5GE Base-T(PoE+) or 2 x 100M/GE/2.5GE SFP Combo, 2 x 100M/GE/2.5/10GE SFP+ ports • Built-in AC power supply • PoE+ • Forwarding performance: 73.5 Mpps • Switching capacity: 98 Gbps/98 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.

Features and Highlights

- CloudEngine S5751R-L series switches support dynamic and static MAC address management, MAC address learning, MAC address synchronization, MAC address security, and blackhole MAC addresses.
- CloudEngine S5751R-L series switches support basic VLANs, VLANIF interfaces, and jumbo frames.
- CloudEngine S5751R-L series switches support STP (IEEE 802.1d) and RSTP (IEEE 802.1w).
- CloudEngine S5751R-L series switches support routing protocols such as static routing, basic ARP, DNS client, and DHCPv4 client.
- CloudEngine S5751R-L series switches support LLDP, SNMP, web, and cloud management.

Note: CloudEngine S5751R-L does not support CLI.

Product Specifications

Item	CloudEngine S5751R-L8T2J-QA	CloudEngine S5751R-L8P2J-QA	CloudEngine S5751R-L8T2X-QA	CloudEngine S5751R-L8P2X-QA
Fixed port	8 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP ports	8 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP ports	8 x 10/100/1000Base-T ports, 2 x 100M/1/2.5/10GE SFP+ ports	8 x 10/100/1000Base-T ports, 2 x 100M/1/2.5/10GE SFP+ ports
Dimensions (H x W x D)	35 mm x 195 mm x 130 mm	43.6 mm x 195 mm x 160 mm	35 mm x 195 mm x 130 mm	43.6 mm x 195 mm x 160 mm
Chassis weight (including packaging)	1.28 kg	2.36 kg	1.28 kg	2.36 kg
Power supply type	Power adapter power supply	Power adapter power supply	Power adapter power supply	Power adapter power supply
Rated input voltage	100 V AC to 240 V AC, 50/60 Hz	170 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	170 V AC to 240 V AC, 50/60 Hz
Input voltage range	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz	AC input: 170 V AC to 264 V AC, 47 Hz to 63 Hz	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz	AC input: 170 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum power consumption	10.93 W	• 17.59 W (without PD) • 161.02 W (with PD,	10.93 W	• 17.59 W (without PD) • 161.02 W (with PD, PD power

Item	CloudEngine S5751R-L8T2J-QA	CloudEngine S5751R-L8P2J-QA	CloudEngine S5751R-L8T2X-QA	CloudEngine S5751R-L8P2X-QA
		PD power consumption of 128 W)		consumption of 128 W)
Noise	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)
Long-term operating temperature	0-1800 m altitude: -5°C to +45°C When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C	0-1800 m altitude: -5°C to +45°C	0-1800 m altitude: -5°C to +45°C When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C	0-1800 m altitude: -5°C to +45°C
Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Surge protection specification (power port)	• Differential mode: ± 4kV • Common mode: ± 6kV	• Differential mode: ± 4kV • Common mode: ± 4kV	• Differential mode: ± 4kV • Common mode: ± 6kV	• Differential mode: ± 4kV • Common mode: ± 4kV
Heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation

Item	CloudEngine S5751R-L24T4J-QA	CloudEngine S5751R-L24T2J2X-QA	CloudEngine S5751R-L24P4J-A	CloudEngine S5751R-L24P2J2X-A
Fixed port	24 x 10/100/1000Base-T ports, 4 x 100M/GE/2.5GE SFP ports	24 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP, 2 x 100M/GE/2.5/10GE SFP+ ports	24 x 10/100/1000Base-T ports, 4 x 100M/GE/2.5GE SFP ports	24 x 10/100/1000Base-T ports, 2 x 100M/GE/2.5GE SFP, 2 x 100M/GE/2.5/10GE SFP+ ports
Dimensions (H x W x D)	43.6 mm x 442 mm x 160 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 160 mm	43.6 mm x 442 mm x 220 mm
Chassis weight (including packaging)	2.94 kg	2.94 kg	3.85 kg	3.85 kg
Power supply type	Built-in AC power	Built-in AC power	Built-in AC power	Built-in AC power
Rated voltage range	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	AC input: 100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC	• AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz • High-voltage DC

Item	CloudEngine S5751R-L24T4J-QA	CloudEngine S5751R-L24T2J2X-QA	CloudEngine S5751R-L24P4J-A	CloudEngine S5751R-L24P2J2X-A
			input: 240 V DC	input: 240 V DC
Maximum power consumption	20.9 W	20.9 W	• 32.42 W (without PD) • 484.68 W(with PD,PD Power consumption of :400W）	• 32.42 W (without PD) • 484.68 W(with PD,PD Power consumption of :400W）
Noise	Noise-free (no fans)	Noise-free (no fans)	• Under normal temperature (sound power): 52.8dB (A) • Under normal temperature (sound pressure): 40.1dB (A)	• Under normal temperature (sound power): 52.8dB (A) • Under normal temperature (sound pressure): 40.1dB (A)
Long-term operating temperature	0-1800 m altitude: -5°C to +45°C	• 2 x 10GE + 2 x 2.5GE optical ports: –5°C to +40°C • Other optical ports: –5°C to +45°C	0-1800 m altitude: -5°C to +45°C	0-1800 m altitude: -5°C to +45°C
Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)	5% to 95% (non-condensing)
Surge protection specification (power port)	• Differential mode: ± 6kV • Common mode: ± 6kV	• Differential mode: ± 6kV • Common mode: ± 6kV	• Differential mode: ± 6kV • Common mode: ± 6kV	• Differential mode: ± 6kV • Common mode: ± 6kV
Heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation	2 built-in fans, forced air cooling	2 built-in fans, forced air cooling

Item	CloudEngine S5751R-L8P2PN2X-QA	CloudEngine S5751R-L24P2PN2J2X-A
Fixed port	6 x 10/100/1000Base-T ports(PoE+), 2 x 10/100/1000Base-T ports, 2 x 10/100/1000M/2.5GE Base-T ports(PoE+), 2 x 100M/1/2.5/10GE SFP+ ports	22 x 10/100/1000Base-T(PoE+), 2 x 10/100/1000Base-T ports, 2 x 10/100/1000M/2.5GE Base-T(PoE+) or 2 x 100M/GE/2.5GE SFP Combo, 2 x 100M/GE/2.5/10GE SFP+ ports
Dimensions (H x W x D)	43.6 mm x 195 mm x 160 mm	43.6 mm x 442 mm x 220 mm
Chassis height	1 U	1 U
Chassis weight (including packaging)	2.38 kg	3.89 kg
Power supply type	Power adapter power supply	Built-in AC power
Rated voltage range	170 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
Maximum voltage range	AC input: 170 V AC to 264 V AC, 47 Hz to	• AC input: 90 V AC to 290 V AC, 45 Hz

Item	CloudEngine S5751R-L8P2PN2X-QA	CloudEngine S5751R-L24P2PN2J2X-A
	63 Hz	to 65 Hz
Maximum power consumption	• 17.91 W (without PD) • 162.05 W (with PD, PD power consumption of 128 W)	• 32.42 W (without PD) • 482.68 W(with PD,PD Power consumption of :400W）
Noise	Noise-free (no fans)	• Under normal temperature (sound power): 52.8dB (A) • Under normal temperature (sound pressure): 40.1dB (A)
Long-term operating temperature	0-1800 m altitude: -5°C to +45°C	0-1800 m altitude: -5°C to +45°C
Storage temperature	-40°C to +70°C	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Surge protection specification (power port)	• Differential mode: ± 4kV • Common mode: ±4kV	• Differential mode: ± 6kV • Common mode: ± 6kV
Heat dissipation	No fan, natural heat dissipation	2 built-in fans, forced air cooling

Item	CloudEngine S5751R-L4LP8UN2X-QA	CloudEngine S5751R-L8LP4UN2X-QA	CloudEngine S5751R-L16LP4UN2X-QA
Fixed port	4 x 10/100/1000Base-T ports(PoE+), 8 x 10/100/1000M/2.5GE Base-T ports(4 PoE+, 4 PoE++), 2 x 100M/1/2.5/10GE SFP+ ports	8 x 10/100/1000Base-T ports(PoE+), 4 x 10/100/1000M/2.5GE Base-T ports(PoE++), 2 x 100M/1/2.5/10GE SFP+ ports	16 x 10/100/1000Base-T ports(PoE+), 4 x 10/100/1000M/2.5GE Base-T ports(4 PoE++), 2 x 100M/1/2.5/10GE SFP+ ports
Dimensions (H x W x D)	43.6 mm x 250 mm x 180 mm	43.6 mm x 250 mm x 180 mm	43.6 mm x 250 mm x 180 mm
Chassis height	1 U	1 U	1 U
Chassis weight (including packaging)	2.52 kg	2.54 kg	2.56 kg
Power supply type	Power adapter power supply	Power adapter power supply	Power adapter power supply
Rated voltage range	170 V AC to 264 V AC; 47 Hz to 63 Hz	170 V AC to 264 V AC; 47 Hz to 63 Hz	170 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum voltage range	170 V AC to 240 V AC; 50/60 Hz	170 V AC to 240 V AC; 50/60 Hz	170 V AC to 240 V AC; 50/60 Hz
Maximum power consumption	• Without PoE: 24.5 W (device only)/29.9 W (device + adapter) • Full PoE load: 164.7 W (PoE: 125 W)	• Without PoE: 19.4 W (device only)/24.1 W (device + adapter) • Full PoE load: 159.9 W (PoE: 125 W)	• Without PoE: 25.0 W (device only)/30.1 W (device + adapter) • Full PoE load: 164.3 W (PoE: 125 W)
Noise	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)
Long-term operating temperature	0-1800 m altitude: -5°C to +45°C	0-1800 m altitude: -5°C to +45°C	0-1800 m altitude: -5°C to +45°C
Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C

Item	CloudEngine S5751R-L4LP8UN2X-QA	CloudEngine S5751R-L8LP4UN2X-QA	CloudEngine S5751R-L16LP4UN2X-QA
Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Surge protection specification (power port)	• Differential mode: ± 4kV • Common mode: ±4kV	• Differential mode: ± 4kV • Common mode: ±4kV	• Differential mode: ± 4kV • Common mode: ±4kV
Heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation	No fan, natural heat dissipation

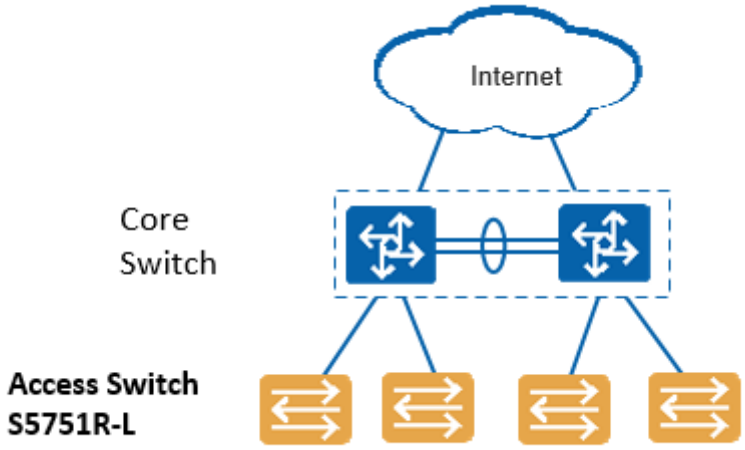
Service Features

Item	Description
MAC address table	Automatic learning and aging of MAC addresses
	8K MAC entries (MAX)
	Static, dynamic, and blackhole MAC address entries
	Source MAC address filtering
	Limiting the number of MAC addresses learned by an interface
VLAN features	256 VLANs
Ethernet ring protection	STP (IEEE 802.1d) , RSTP (IEEE 802.1w)
IP routing	Static routes
Reliability	Eth-Trunk
Security	Port isolation
	Rate limit of ARP packets
	ARP gateway conflict detection
	MACSec
Monitoring	LLDP
	SNMP
	Web Management and Cloud Management
	WebMaster Management
Management and maintenance	SNTP
	Fault management, configuration management, resource monitoring, and exception monitoring

Networking and Applications

SMB Enterprise Campus Network

CloudEngine S5751R-L series switches provide 8 or 24 GE ports (PoE/non-PoE) and 2.5GE ports and support GE, 2.5GE, or 10GE uplink ports, meeting network construction requirements in different service scenarios and can be deployed on small-scale networks. Provides diversified desktop access functions to quickly build a gigabit-to-desktop network.



Ordering Information

Model	Product Description
CloudEngine S5751R-L8T2J-QA	S5751R-L8T2J-QA(8*10/100/1000BASE-T ports, 2*2.5GE SFP ports, with 1*AC power adapter, Fanless)
CloudEngine S5751R-L8P2J-QA	S5751R-L8P2J-QA(8*10/100/1000BASE-T ports(PoE+), 2*2.5GE SFP ports, 128 W PoE, with 1*220 V AC power adapter, Fanless)
CloudEngine S5751R-L8T2X-QA	S5751R-L8T2X-QA(8*10/100/1000BASE-T ports, 2*10GE SFP+ ports, with 1*AC power adapter, Fanless)
CloudEngine S5751R-L8P2X-QA	S5751R-L8P2X-QA(8*10/100/1000BASE-T ports(PoE+), 2*10GE SFP+ ports, 128W PoE, with 1*AC power adapter, Fanless)
CloudEngine S5751R-L8P2PN2X-QA	S5751R-L8P2PN2X-QA(8*10/100/1000BASE-T ports(6*PoE+), 2*10/100/1000/2.5GBASE-T Ports(PoE+), 2*10GE SFP+ ports, 128W PoE, with 1*AC power adapter, Fanless)
CloudEngine S5751R-L4LP8UN2X-QA	S5751R-L4LP8UN2X-QA (4*10/100/1000BASE-T ports(PoE+), 8*10M/100M/1G/2.5GBASE-T ports(4*PoE+, 4*PoE++), 2*10GE SFP+ ports, 128W PoE, 1*AC power adapter, Fanless)
CloudEngine S5751R-L8LP4UN2X-QA	S5751R-L8LP4UN2X-QA (8*10/100/1000BASE-T ports(PoE+), 4*10M/100M/1G/2.5GBASE-T ports(PoE++), 2*10GE SFP+ ports, 128W PoE, with 1*AC power adapter, Fanless)
CloudEngine S5751R-L16LP4UN2X-QA	S5751R-L16LP4UN2X-QA (16*10/100/1000BASE-T ports(8*PoE+), 4*10M/100M/1G/2.5GBASE-T ports(PoE++), 2*10GE SFP+ ports, 128W PoE, 1*AC power adapter, Fanless)
CloudEngine S5751R-L24T4J-QA	S5751R-L24T4J-QA (24*10/100/1000BASE-T ports, 4*2.5GE SFP ports, built-in AC power, Fanless)
CloudEngine S5751R-L24T2J2X-QA	S5751R-L24T2J2X-QA (24*10/100/1000BASE-T ports, 2*2.5GE SFP ports, 2*10GE SFP+ ports, built-in AC power, Fanless)
CloudEngine S5751R-L24P4J-A	S5751R-L24P4J-A (24*10/100/1000BASE-T ports (PoE+), 4*2.5GE SFP ports, 400 W PoE, built-in AC power)
CloudEngine S5751R-L24P2J2X-A	S5751R-L24P2J2X-A (24*10/100/1000BASE-T ports (PoE+), 2*2.5GE SFP ports, 2*10GE SFP+ ports, 400 W PoE, built-in AC power)
CloudEngine S5751R-L24P2PN2J2X-A	S5751R-L24P2PN2J2X-A (24*10/100/1000BASE-T ports (22*PoE+), 2*10/100/1000/2.5GBASE-T ports (PoE+) or 2.5GE SFP ports Combo, 2*10GE SFP+ ports,

Model	Product Description
	400 W PoE, built-in AC power)
S57R-M-Lic	S57XX-R Series Basic SW,Per Device

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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