



## Overview

CloudEngine S5736-S Series Switches are next generation standard all-optical GE switches, with 48 downlink optical ports and four 10 GE uplink ports. Based on Huawei's Versatile Routing Platform (VRP), CloudEngine S5736-S supports enhanced Layer 3 features, simplified Operations and Maintenance (O&M), flexible Ethernet networking, and mature Internet Protocol version 6 (IPv6) features. The series can be used as access or aggregation switches on campus networks or as access switches on Metropolitan Area Networks (MANs) or data center networks.

## Quick Specification

Table 1 shows the quick specification.

Model	S5736-S24UM4XC
Part Number	98011020 98011020-001 98011020-004
Description	<ul style="list-style-type: none"> <li>● S5736-S24UM4XC base (24*100M/1G Ethernet ports, optional RTU upgrade to 2.5/5/10G, 4*10GE SFP+ ports, 1*expansion slot, PoE++, without power module)</li> <li>● S5736-S24UM4XC 2.5&amp;10G Bundle (12*100M/1G/2.5G Ethernet ports, 12*100M/1G/2.5G/5G/10G Ethernet ports, Optional RTU upgrade to 5/10G, 4*10GE SFP+ ports, 1*expansion slot, PoE++, 1*1000W AC power)</li> <li>● S5736-S24UM4XC 10G Bundle (24*100M/1G/2.5G/5G/10G Ethernet ports, 4*10GE SFP+ ports, 1*expansion slot, PoE++, 1*1000W AC power)</li> </ul>
Memory	2 GB
Flash memory	1 GB in total. To view the available flash memory size, run the display version command.
Typical power consumption [W]	117 W
Typical heat dissipation [BTU/hour]	399.22 BTU/hour

Figure 1 shows the appearance of S5736-S24UM4XC.





## Product Details

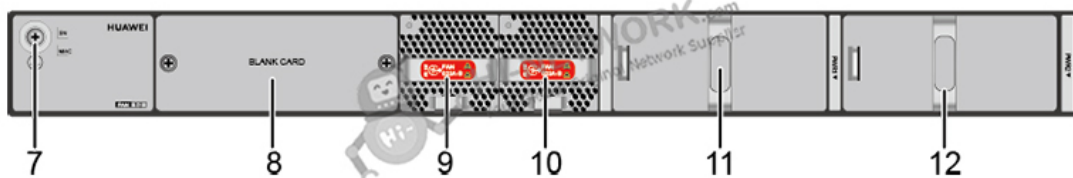
Figure 2 shows the front ports of S5736-S24UM4XC.



Note:

(1)	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	(4)	One ETH management port
(2)	Four 10GE SFP+ optical ports	(5)	One USB port
(3)	One console port	(6)	One PNP button

Figure 3 shows the back view of S5736-S24UM4XC.



Note:

(7)	Ground screw	(10)	Fan module slot 2
(8)	Rear card slot	(11)	Power module slot 1
(9)	Fan module slot 1	(12)	Power module slot 2

Table 2 shows the details of S5736-S24UM4XC bundles.

Part Number	Description	Remarks
98011020	S5736-S24UM4XC Base (24*100M/1G Ethernet ports, Optional RTU upgrade to 2.5/5/10G, 4*10GE SFP+ ports, 1*expansion slot, PoE++, without power module)	By default, multi-GE ports support 100 Mbit/s and 1000 Mbit/s. You can purchase an RTU license to increase the port rate to 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s.  There is a label on the rear side of the device, which contains the rate "24*GE" supported by the multi-GE ports.





98011020-001	S5736-S24UM4XC 2.5&10G Bundle (12*100M/1G/2.5G Ethernet ports, 12*100M/1G/2.5G/5G/10G Ethernet ports, Optional RTU upgrade to 5/10G, 4*10GE SFP+ ports, 1*expansion slot, PoE++, 1*1000W AC power)	<p>The 2.5GE RTU license for 12 multi-GE ports and the 10GE RTU license for another 12 multi-GE ports have been activated in factory default settings. You can run the assign group-speed command to configure these multi-GE ports as 12 x 2.5GE and 12 x 10GE ports. You can purchase an additional RTU license to upgrade the 2.5GE ports to 5GE or 10GE ports.</p> <p>There is a label on the rear side of the device, which contains the rate "12*2.5GE+12*10GE" supported by the multi-GE ports.</p>
98011020-004	S5736-S24UM4XC 10G Bundle (24*100M/1G/2.5G/5G/10G Ethernet ports, 4*10GE SFP+ ports, 1*expansion slot, PoE++, 1*1000W AC power)	<p>The 10GE RTU license for 24 multi-GE ports has been activated in factory default settings. You can run the assign group-speed command to configure these multi-GE ports as 24 x 10GE ports.</p> <p>There is a label on the rear side of the device, which contains the rate "24*10GE" supported by the multi-GE ports.</p>

## Supported Transceivers

Table 3 shows the recommended models.

Model	Description
<a href="#">OMXD30000</a>	Huawei Optical Transceiver OMXD30000, SFP+, 10G, Multi-mode Module (850nm, 0.3km, LC)
<a href="#">SFP-GE-LX-SM1310</a>	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)
OMXD30009	Transceiver, QSFP+, 1310nm, 41.25Gbps, -7dBm, 2.3dBm, -11.5dBm, LC, SMF, 10
<a href="#">eSFP-GE-SX-MM850</a>	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.5km, LC)

## Compare to Similar Items

Table 4 shows the comparison.

Product Model	<a href="#">S5735S-L12T4S-A</a>	<a href="#">S5735S-L24T4S-A</a>	<a href="#">S5735S-L24T4X-A</a>	<a href="#">S5735S-L48T4S-A</a>	<a href="#">S5735S-L48T4X-A</a>	<a href="#">S5735S-L32ST4X-A</a>
Forwarding Performance	24 Mpps	42 Mpps	96 Mpps	78 Mpps	132 Mpps	108 Mpps
Switching Capacity <sup>2</sup>	32 Gbit/s/336 Gbit/s	56 Gbit/s/336 Gbit/s	128 Gbit/s/336 Gbit/s	104 Gbit/s/432 Gbit/s	176 Gbit/s/432 Gbit/s	144 Gbit/s/432 Gbit/s
Fixed Ports	12 x 10/100/1000Base-T ports, 4 x GE SFP ports	24 x 10/100/1000Base-T ports, 4 x GE SFP ports	24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports	48 x 10/100/1000 BASE-T ports, 4 x GE SFP ports	48 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports	24 x GE SFP ports, 8 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports





PoE+	CloudEngine <a href="#">S5735S-L12P4S-A</a> : Supported CloudEngine <a href="#">S5735S-L24P4S-A</a> : Supported CloudEngine <a href="#">S5735S-L24P4X-A</a> : Supported CloudEngine <a href="#">S5735S-L48P4X-A</a> : Supported Other: Not supported
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## Get More Information

Do you have any question about the S5736-S24UM4XC (98011345)?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

## Specification

S5736-S24UM4XC Datasheet	
Model	S5736-S24UM4XC
Part Number	98011396
Description	S5736-S24UM4XC base (24*100M/1G Ethernet ports, optional RTU upgrade to 2.5/5/10G, 4*10GE SFP+ ports, 1*expansion slot, PoE++, without power module)
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	150.0 mm x 710.0 mm x 560.0 mm (5.91 in. x 27.95 in. x 22.05 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.7 kg (14.77 lb)
Weight with packaging [kg(lb)]	9.7 kg (21.38 lb)
Typical power consumption [W]	117 W
Typical heat dissipation [BTU/hour]	399.22 BTU/hour
Maximum power consumption [W]	Without PoE: 176 W (without cards) Full PoE load: 1967 W (PoE: 1791 W, without cards)
Maximum heat dissipation [BTU/hour]	Without PoE: 600.53 (without cards)
Static power consumption [W]	71 W
MTBF [years]	59.44 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature	70.1 dB(A)





(acoustic power) [dB(A)]	
Noise at normal temperature (acoustic pressure) [dB(A)]	58.1 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	<p>When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).</p> <p>The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met:</p> <p>The operating temperature can exceed 45°C (113°F) for a maximum of 96 consecutive hours in a year.</p> <p>The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours.</p> <p>The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year.</p> <p>If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur.</p> <p>Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km.</p>
Storage temperature [°C(°F)]	-40°C to +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	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 V DC to -60 V DC
Input voltage range [V]	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 input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	1 GB in total. To view the available flash memory size, run the display version command.





Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: $\pm 6$ kV
Power supply surge protection [kV]	Configured with AC power modules: $\pm 6$ kV in differential mode and $\pm 6$ kV in common mode Configured with DC power modules: $\pm 2$ kV in differential mode and $\pm 4$ kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Heat dissipation with fan, intelligent fan speed adjustment
Airflow direction	Air intake from left, front and right, air exhaustion from behind
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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WhatsApp Business: +8618057156223

