

# Datasheet

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## Overview

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

## Quick Specification

|                         |   |
|-------------------------|---|
| Model                   | S5731-S48P4X  |
| Part Number             | 02353AJH/-001/003   |
| Memory (RAM)            | 2 GB  |
| Flash memory            | 1 GB in total. To view the available flash memory size, run the <b>display version</b> command.   |
| PoE                     | Supported   |
| Dimensions (H x W x D)  | Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.)<br>Maximum dimensions (the depth is the distance from ports on the front panel to the handle on the rear panel): 43.6 mm x 442.0 mm x 448.0 mm (1.72 in. x 17.4 in. x 17.7 in.) |
| Weight (with packaging) | 8.8 kg (19.40 lb)   |

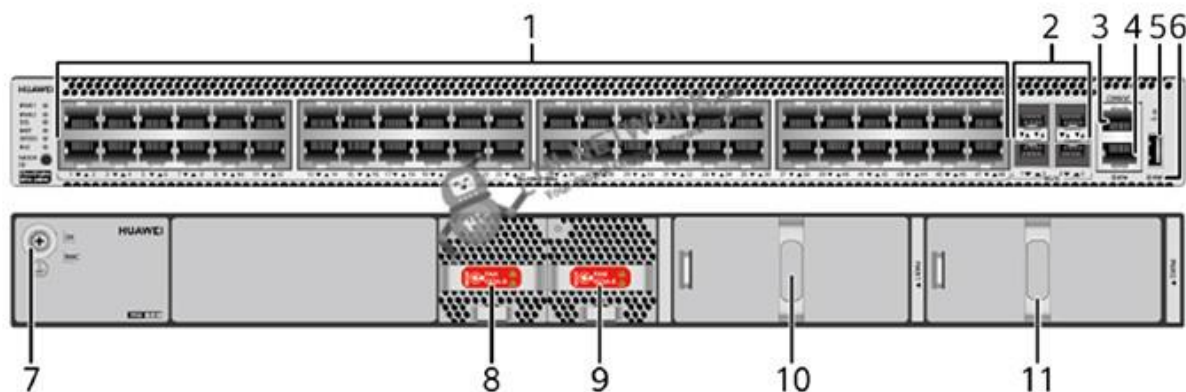
## Difference between Part Number

|                         |  |  |   |
|-------------------------|--|--|---|
| Model                   | S5731-S48P4X   |  |   |
| Part Number             | 02353AJH   | 02353AJH-001   | 02353AJH-003  |
| First supported version | V200R019C00  | V200R020C10  | V200R021C10SPC600   |
| Heat dissipation mode   | Heat dissipation with fan,<br>intelligent fan speed adjustment | Heat dissipation with fan,<br>intelligent fan speed adjustment | Air cooling for heat dissipation,<br>intelligent fan speed adjustment |

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### Product Details:

#### Appearance:



|   |  |
|---|--|
| ① | Forty-eight PoE+ 10/100/1000BASE-T ports |
| ② | Four 10GE SFP+ ports                     |
| ③ | One console port                         |
| ④ | One ETH management port                  |
| ⑤ | One USB port                             |
| ⑥ | One PNP button                           |
| ⑦ | Ground screw                             |
| ⑧ | Fan module slot 1                        |
| ⑨ | Fan module slot 2                        |
| ⑩ | Power module slot 1                      |
| ⑪ | Power module slot 2                      |

### The Accessories for S5731-S48P4X

#### Modules and Cables:

| Product                              | Description  |
|--------------------------------------|--|
| <a href="#">eSFP-GE-SX-MM850</a>     | Optical Transceiver,eSFP,GE,Multi-mode Module(850nm,0.55km,LC) |
| <a href="#">S-SFP-GE-LH40-SM1550</a> | Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,40km,LC) |

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|                                       |   |
|---------------------------------------|---|
| <a href="#">SFP-GE-LX-SM1310</a>      | Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)                          |
| <a href="#">S-SFP-GE-LH40-SM1310</a>  | Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,40km,LC)                          |
| <a href="#">S-SFP-GE-LH80-SM1550</a>  | Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,80km,LC)                          |
| SFP-GE-ZBXU1                          | Optical Transceiver,eSFP,GE,BiDi Single-mode Module(1490nm(Tx)/1570nm(Rx),80km,LC)      |
| <a href="#">SFP-GE-LX-SM1490-BIDI</a> | Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,10km,LC)              |
| <a href="#">SFP-10G-iLR</a>           | Optical Transceiver,SFP+,10G,Single-mode Module(1310nm,1.4km,LC)                        |
| <a href="#">SFP-10G-USR</a>           | 10GBase-USR Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.1km,LC)              |
| <a href="#">SFP-1000BaseT</a>         | Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)                    |
| <a href="#">OMXD30000</a>             | Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)                          |
| <a href="#">OSX010000</a>             | Optical Transceiver,SFP+,10G,Single-mode Module(1310nm,10km,LC)                         |
| <a href="#">SFP-10G-BXU1</a>          | 10GBase,BIDI Optical Transceiver,SFP+,10G,Single-mode Module(TX1270nm/RX1330nm,10km,LC) |
| SFP-10G-ER-1310                       | Optical Transceiver,SFP+,10G,Single-mode Module(1310nm,40km,LC)                         |
| SFP-10G-ER-SM1330-BIDI                | Optical Transceiver,SFP+,10G,BIDI Single-mode Module(TX 1330nm/RX 1270nm,40km,LC)       |
| <a href="#">SFP-10G-BXD1</a>          | 10GBase,BIDI Optical Transceiver,SFP+,10G,Single-mode Module(TX1330nm/RX1270nm,10km,LC) |
| <a href="#">SFP-10G-ZR</a>            | 10GBase-ZR Optical Transceiver,SFP+,10G,Single-mode Module(1550nm,80km,LC)              |
| <a href="#">OSX040N01</a>             | Optical Transceiver,SFP+,10G,Single-mode Module(1550nm,40km,LC)                         |

### Compare to Similar Items

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



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|                           |  |       |  |  |
|---------------------------|--|-------|--|--|
|                           | AC, 50/60 Hz   |       | AC, 50/60 Hz   | 50/60 Hz<br><ul style="list-style-type: none"> <li>AC input (600 W AC): 100 V AC to 240 V AC, 50/60 Hz</li> <li>DC input (1000 W DC): -48 VDC to -60 V DC</li> </ul> |
| Maximum power consumption | <ul style="list-style-type: none"> <li>121 W (without PD)</li> <li>977 W (with PD, PD power consumption of 720 W)</li> </ul> | 114 W | <ul style="list-style-type: none"> <li>132 W (without PD)</li> <li>1750 W (with PD, PD power consumption of 1440 W)</li> </ul> | 124 W  |

Get more information:

Do you have any question about the S5731-S48P4X 02353AJH/-001/003?

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

## Specific Data Sheet:

|                                   |   |
|-----------------------------------|---|
| Part Number                       | 02353AJH/02353AJH-001/02353AJH-003  |
| Model                             | S5731-S48P4X  |
| Memory (RAM)                      | 2 GB  |
| Flash                             | 1 GB in total. To view the available flash memory size, run the <b>display version</b> command.   |
| Mean time between failures (MTBF) | 54.96 years   |
| Mean time to repair (MTTR)        | 2 hours   |
| Availability                      | > 0.99999   |
| Service port surge protection     | Common mode: $\pm 6$ kV   |
| Power supply surge protection     | Using AC power modules: $\pm 6$ kV in differential mode, $\pm 6$ kV in common mode<br>Using DC power modules: $\pm 2$ kV in differential mode, $\pm 4$ kV in common mode  |
| Dimensions (H x W x D)            | Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.)<br>Maximum dimensions (the depth is the distance from ports on the front panel to the handle on the rear panel): 43.6 mm x 442.0 mm x 448.0 mm (1.72 in. x 17.4 in. x 17.7 in.) |
| Weight (with packaging)           | 8.8 kg (19.40 lb)   |
| Stack ports                       | 10GE SFP+ ports on the front panel  |
| RTC                               | Supported   |
| RPS                               | Not supported   |
| PoE                               | Supported   |
| Rated voltage range               | AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC, 50/60 Hz<br>High-Voltage DC input: 240 V DC<br>DC input: -48 V DC to -60 V DC   |
| Maximum voltage range             | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz   |





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|  |   |
|--|---|
|  | High-Voltage DC input: 190 V DC to 290 V DC<br>DC input: -38.4 V DC to -72 V DC |
| Maximum power consumption (100% throughput, full speed of fans)                    | Not providing the PoE function: 132 W<br>100% PoE loads: 1750 W (PoE: 1440 W)   |
| Typical power consumption (30% of traffic load, tested according to ATIS standard) | 108 W   |
| Operating temperature  | -5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)           |
| Storage temperature  | -40°C to +70°C (-40°F to +158°F)  |
| Noise under normal temperature (27°C, sound power)                                 | < 62.3 dB(A)  |
| Relative humidity  | 5% to 95%, noncondensing  |
| Operating altitude   | 0-5000 m (0-16404 ft.)  |
| Certification  | EMC certification<br>Safety certification<br>Manufacturing certification        |

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