

# Cisco 8200 Series Routers Overview


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## Cisco 8200 Series Routers

***Table 1: Feature History Table***

| Hardware Name | Release | Description |
|---|---|---|
| Cisco 8201-24H8FH Router | Release 7.7.1 | These are fixed-port, high-density, 1RU form-factor routers that support 24 QSFP28 100 GbE ports and 8 QSFP-DD 400 GbE ports.<br><br>It provides 5.6Tbps of network bandwidth. |
| PSU3KW-HVPI Power Supply Unit for the Cisco 8202-32FH-M Router | Release 7.5.3 | We are now introducing a high voltage power supply unit, PSU3KW-HVPI that accepts AC, HVAC, or HVDC input power to operate the Cisco 8202-32FH-M router in the port side intake configuration.<br><br>The PSU3KW-HVPI power supply unit has a maximum power of 1500W (AC low line) or 3000W (HVAC or HVDC). The benefits of the PSU3KW-HVPI PSU are:<br><br>• Supports HVDC and HVAC input power<br><br>• Helps when transceivers are installed in the router which needs more power to operate<br><br>• Provides better efficiency for power distribution |

| Hardware Name | Release | Description |
|---|---|---|
| Cisco 8202-32FH-M and Cisco 8202-32FH-MO Routers | Release 7.5.2 | These are fixed-port, high-density, 2RU form-factor routers with MACsec that support 32-ports of 400 GbE. These routers consume low power for efficient cooling and can scale to the increasing bandwidth and scale requirements. The 8202-32FH-MO variant supports Cisco-qualified open-source network operating systems, such as SONiC (Software for Open Networking in the Cloud). |
| Cisco 8201-32FH Router | Release 7.3.15 | With this release, Cisco introduces another chassis in the 8200 Series Routers.<br>It provides 12.8Tbps of network bandwidth.<br>The Cisco 8201-32FH Router is a fixed port, high density, one rack unit form-factor router. This router has 32 QSFP56-DD 400 GbE ports. |
| Cisco 8212-48FH-M Router | Release 24.3.1 | With this release, Cisco introduces another chassis in the 8200 Series Routers.<br>It provides 19.2Tbps of network bandwidth.<br>The Cisco 8212-48FH-M Router is a fixed port, high density, 2RU form-factor router and features 24 QSFP56-DD ports and 24 QSFP-DD800 ports.<br>The Cisco 8212-48FH-M Router comes with HBM/2.5D and MACsec support. |

| Hardware Name | Release | Description |
|---|---|---|
| PSU3KW-DCPI Power Supply Unit for the Cisco 8202-32FH-M and Cisco 8212-48FH-M Routers | Release 24.3.1 | We are now introducing a high wattage DC power supply unit, PSU3KW-DCPI that accepts DC power to operate the Cisco 8202-32FH-M and Cisco 8212-48FH-M routers in the port side intake configuration.<br>The PSU3KW-DCPI power supply unit has a maximum power of 3000W. The benefits of the PSU3KW-DCPI PSU are:<br>• Supports DC input power. It usually supports a wide range of input voltages, often from -48V to -60V DC, making it suitable for use in different regions and environments.<br>• Helps when transceivers are installed in the router which needs more power to operate<br>• Provides better efficiency for power distribution |

The Cisco 8200 Series Routers utilizes Cisco's new Router-on-Chip (RoC) model to deliver full routing functionality with a single ASIC per router. The RoC architecture is distinguished from System-on-Chip (SoC) switches by supporting large forwarding tables, deep buffers, more flexible packet operations, and enhanced programmability.

The Cisco 8200 series routers presently comprises:

- Cisco 8201 Router – It provides 10.8 Tbps of network bandwidth with dramatically lower power consumption than contemporary 10 Tbps systems. The Cisco 8201 Router is a fixed port, high density, one rack unit form-factor router. Supported ports include 24x 400G QSFP-DD and 12x 100G QSFP28. For more details on ports and supported breakout options, see "Interfaces and Port Description".
- Cisco 8202 Router – It provides 10.8 Tbps of network bandwidth with dramatically lower power consumption than contemporary 10 Tbps systems. The Cisco 8202 Router is a fixed port, high density, two rack unit form-factor router. Supported ports include 12x400 GbE QSFP-DD and 60x100 GbE QSFP28. For more details on ports and supported breakout options, see "Interfaces and Port Description".
- Cisco 8201-32FH Router - It provides 12.8Tbps of network bandwidth. The Cisco 8201-32FH Router is a fixed port, high density, one rack unit form-factor router. Supported ports include 32 x 400G QSFP-DD. The Cisco 8201-32FH Router comes in the HBM/2.5D without MACsec variant(s).
- Cisco 8202-32FH-M - It provides 12.8Tbps of network bandwidth. The Cisco 8202-32FH-M Router is a fixed port, high density, two rack unit form-factor router. Supported ports include 32 x 400G QSFP-DD. The Cisco 8202-32FH-M Router comes with HBM/2.5D and MACsec, and supports ZR/ZRP optical modules on all the ports.

- Cisco 8202-32FH-MO - It provides 12.8Tbps of network bandwidth. The Cisco 8202-32FH-MO Router is a fixed port, high density, two rack unit form-factor router. Supported ports include 32 x 400G QSFP-DD. The Cisco 8202-32FH-MO Router comes with HBM/2.5D and MACsec, and supports ZR/ZRP optical modules on all the ports. This variant supports the Cisco-qualified open-source network operating system, such as SONiC (Software for Open Networking in the Cloud). The functionality and installation of this router is similar to that of Cisco 8202-32FH-M.
- Cisco 8201-24H8FH Router - It provides 5.6Tbps of network bandwidth. The Cisco 8201-24H8FH Router is a fixed port, high density, one rack unit form-factor router. This router supports 24 QSFP28 100 GbE ports and 8 QSFP-DD 400 GbE ports. The Cisco 8201-24H8FH Router comes in the HBM/2.5D without MACsec variant(s).
- Cisco 8212-48FH-M Router - It provides 19.2Tbps of network bandwidth. The Cisco 8212-48FH-M Router is a fixed port, high density, 2RU form-factor router and features 24 QSFP56-DD ports and 24 QSFP-DD800 ports.

  The Cisco 8212-48FH-M Router comes with HBM/2.5D and MACsec support.

For more details on the Cisco 8200 series routers, see Cisco 8000 Series Routers Data Sheet.