



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	<p>These are fixed-port, high-density, 1RU form-factor routers that support 24 QSFP28 100 GbE ports and 8 QSFP-DD 400 GbE ports.</p> <p>It provides 5.6Tbps of network bandwidth.</p>
PSU3KW-HVPI Power Supply Unit for the Cisco 8202-32FH-M Router	Release 7.5.3	<p>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.</p> <p>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:</p> <ul style="list-style-type: none">• Supports HVDC and HVAC input power• Helps when transceivers are installed in the router which needs more power to operate• 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	<p>With this release, Cisco introduces another chassis in the 8200 Series Routers.</p> <p>It provides 12.8Tbps of network bandwidth.</p> <p>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.</p>
Cisco 8212-48FH-M Router	Release 24.3.1	<p>With this release, Cisco introduces another chassis in the 8200 Series Routers.</p> <p>It provides 19.2Tbps of network bandwidth.</p> <p>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.</p> <p>The Cisco 8212-48FH-M Router comes with HBM/2.5D and MACsec support.</p>

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	<p>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.</p> <p>The PSU3KW-DCPI power supply unit has a maximum power of 3000W. The benefits of the PSU3KW-DCPI PSU are:</p> <ul style="list-style-type: none"> • 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. • Helps when transceivers are installed in the router which needs more power to operate • 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](#).