Revised: October 6, 2025

Overview of HF6100-32D

Introduction

Overview

Cisco 6000 series switches are cloud-managed network fabric switches. These switches are part of the Cisco Nexus Hyperfabric fabric-as-a-service (FaaS) solution, and allows you to design and build a physical network.

The Cisco Nexus Hyperfabric FaaS is an automated and cloud-managed scalable data center fabric solution that simplifies network deployment and operations by offering networking as a managed service. The FaaS solution enables organizations to design, deploy, manage, and scale multiple data center network fabrics with ease.

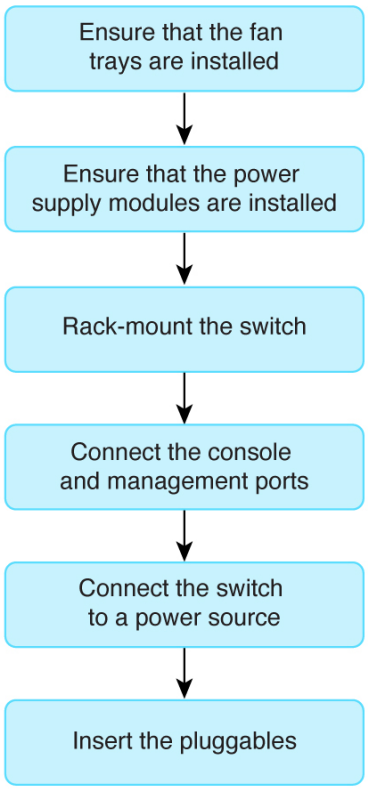
The HF6100-32D switch consists of

- 1 rack unit (RU) size
- 32 x 40/100/200/400G QSFP-DD ports
- 2 power supply slots
- 6 fan trays

Installation workflow

The illustration describes the installation workflow.

Figure 1: Installation workflow of HF6100-32D



After you install the switch,

- install the six fan trays,
- install the two power supply modules,
- rack-mount the switch,
- connect the console and management ports,
- connect the switch to a power source, and
- insert the pluggables.

Console speed

The console speed is 115200 baud, 8 data bits, 1 stop bit and no parity.

Front Panel

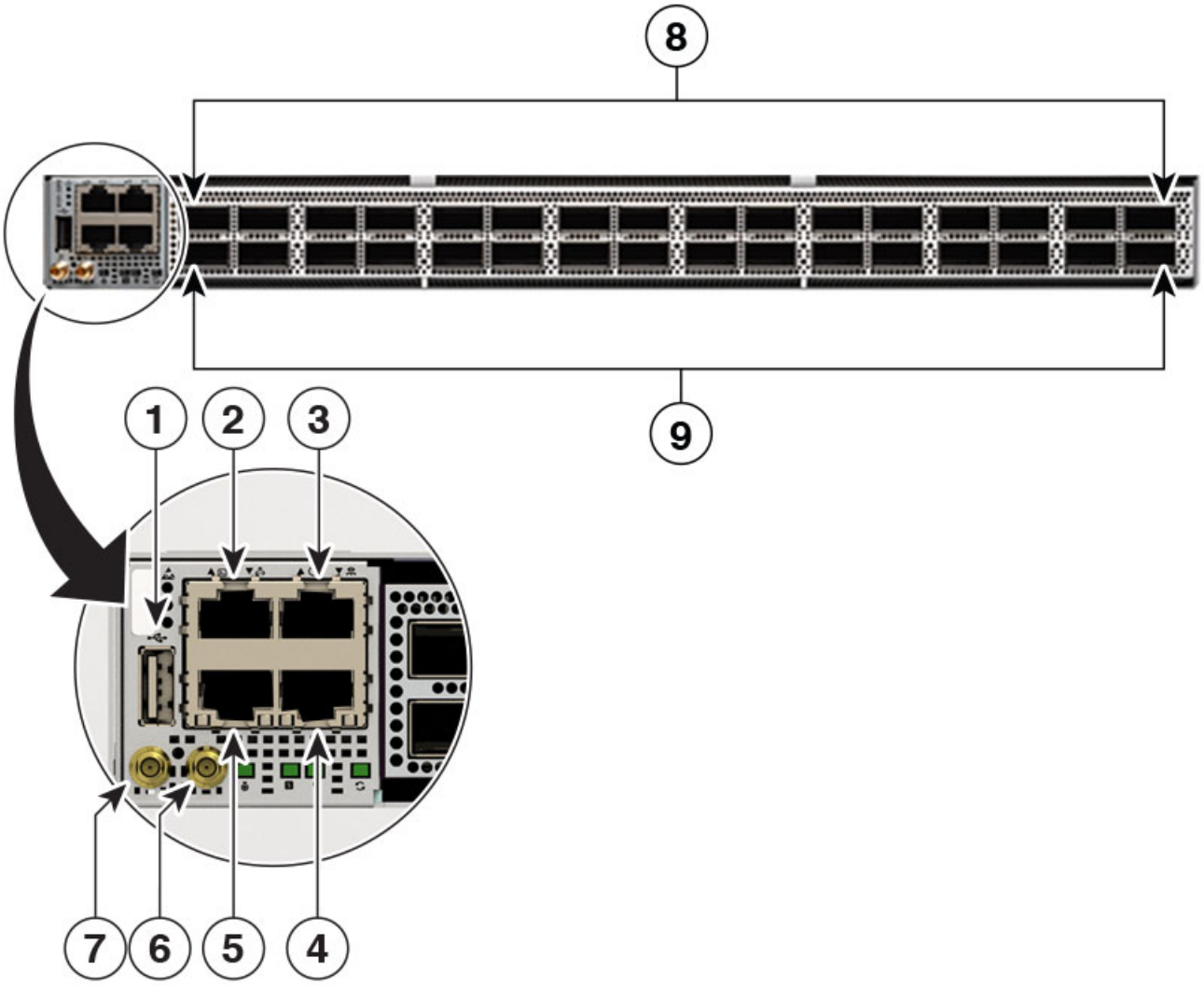
The front panel of Cisco 6000 series switch (HF6100-32D) supports

- One USB 2.0 host port,
- One RJ-45 console port,

- One management port, and
- Quad Small Form-Factor Pluggable (QSFP).

The LED for the switch is also available on the front panel.

Figure 2: Front panel of HF6100-32D



1	USB 2.0 host port
2	RJ-45 console port
3	Blocked port
4	1000BASE-T management port
5	10GBASE-T control plane expansion port

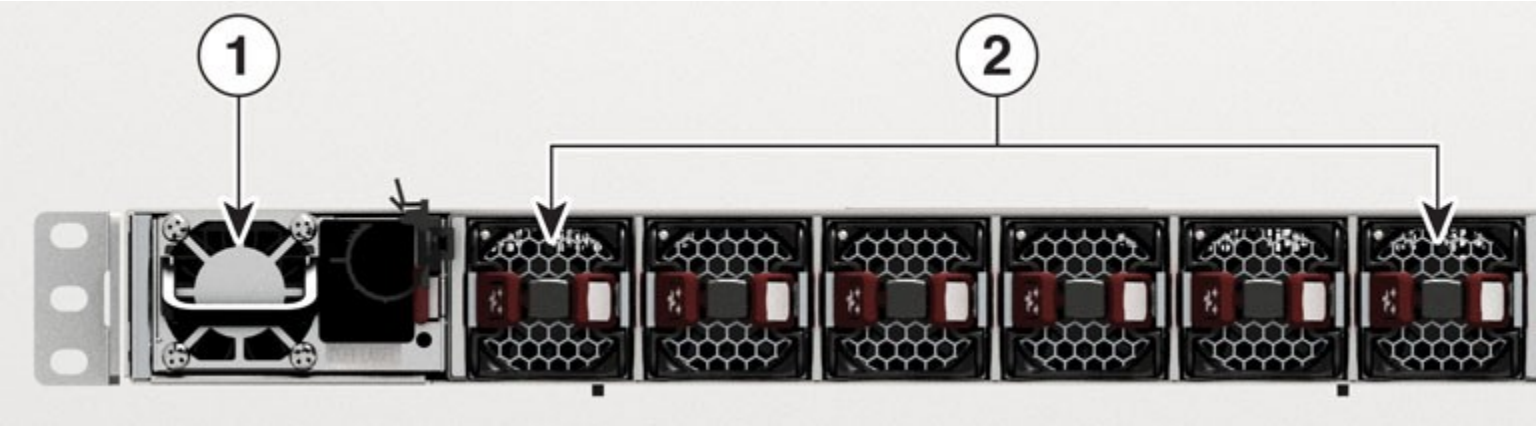
6	Blocked port
7	Blocked port
8	16 QSFP-DD ports
9	16 QSFP-DD ports

Rear Panel

The rear panel of Cisco 6000 series switch (HF6100-32D) supports

- Two power supply units or modules
- Six fan units or modules in 5+1 redundancy

Figure 3: Rear panel of HF6100-32D



1	Power supply module (slot 1) - default is 1400-Watts AC power module with port-side air intake.
2	Fan tray - works in a combination of six fans in 5+1 redundancy that is five operational fans and one nonfunctional fan. The fans are placed in slots 2 (left) to 7 (right).
3	Power supply module (slot 8) - default is 1400-Watts AC power module with port-side air intake.

Power Supply

For more information, see Install the power supply.

Fan

For more information, see Install the fan.

Ports

Console ports

Console ports connect the switch to a PC running Microsoft Windows or to a terminal server. The Cisco HF6100-32D supports:

- One USB 2.0 host console port
- One RJ-45 console port

USB host ports

USB host ports lets you connect different USB devices such as flash drives to switches. The USB 2.0 port provides support for Cisco USB flash drives with capacities from 64 MB to 16 GB. Cisco Nexus Hyperfabric OS software provides standard file system access to the flash device: read, write, erase, and copy, as well as the ability to format the flash device with a FAT file system.

Management port

The Ethernet management port, also referred to as the Gi0/0 or GigabitEthernet0/0 port, is a VXLAN Network Identifier for routing and forwarding interface to which you can connect a PC. It supports Cloud Controller image downloading and network management. The switches support out-of-band management through a dedicated virtual routing and forwarding (VRF) instance. A VRF is used to segment the management traffic from the global underlay routing table of the switch. The Ethernet management port supports speeds up to 10/100/1000 Mbps and is set to auto-negotiate.

QSFP-DD module ports

The QSFP modules provides QSFP-DD ports fiber-optic connections to other devices. For more information, see the TMG matrix for for the list of supported Cisco pluggable transceiver modules https://tmgmatrix.cisco.com/?si=HF6100-32D.