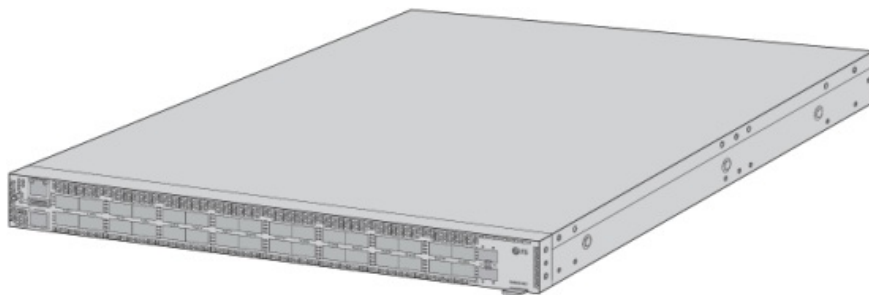




---

# FS N8520-32D Data Center Switch User Guide

August 18,  
2025



## Contents [ [hide](#) ]

### 1 N8520-32D

### 2 DATA CENTER SWITCH

#### 2.1 Quick Start Guide V1.0

##### 2.1.1 Introduction

##### 2.1.2 Accessories

##### 2.1.3 Hardware Overview

###### 2.1.3.1 Front Panel Ports

###### 2.1.3.2 Front Panel Button

##### 2.1.4 Installation Requirements

###### 2.1.4.1 Before the installation, make sure that you have prepared the following items:

###### 2.1.4.2 Site Environment

##### 2.1.5 Mounting the Switch

###### 2.1.5.1 Rack Mounting

###### 2.1.5.2 Grounding the Switch

###### 2.1.5.3 Connecting the SFP+ Port

###### 2.1.5.4 Connecting the QSFP-DD Ports

###### 2.1.5.5 Connecting the RJ45 Console Port

###### 2.1.5.6 Connecting the MGMT Port

###### 2.1.5.7 Connecting the USB Port

###### 2.1.5.8 Connecting the Power

##### 2.1.6 Troubleshooting

###### 2.1.6.1 Power Module Failure

###### 2.1.6.2 Fan Module Failure

###### 2.1.6.3 Serial Port Failure

###### 2.1.6.4 MGMT Port Failure

##### 2.1.7 Product Warranty

##### 2.1.8 Online Resources

##### 2.1.9 Download the FS App

### 3 Documents / Resources

#### 3.1 References

# DATA CENTER SWITCH

## Quick Start Guide V1.0

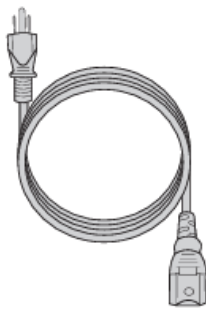
### Introduction

Thank you for choosing the Data Center Switch. This guide is designed to familiarize you with the layout of the switch and describes how to mount it.



N8520-32D

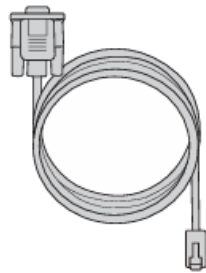
### Accessories



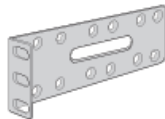
Power Cord x2



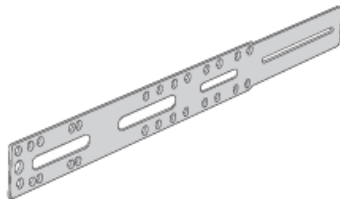
Grounding Cable x1



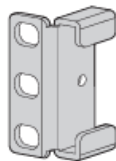
Console Cable x1



Front-Post Bracket x2



Rear-Post Bracket x2



Rear Mounting Ear x2



Bracket-Mounting Screw x20



Ear-Locking Screw x2



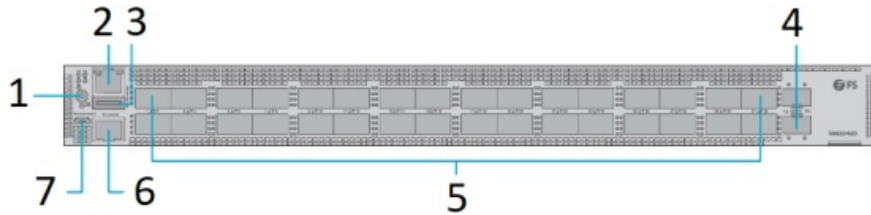
**NOTE:** The accessories may vary from illustration, please prevail in kind.



**NOTE:** This power cord cannot be used with other devices, and other power cords should not be used with this device.

## Hardware Overview

### Front Panel Ports

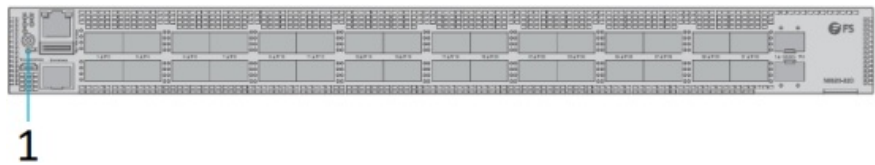


1. 1PPS Timing
2. MGMT
3. USB
4. SFP+
5. QSFP-DD
6. RJ45 Console
7. Micro-USB Console

Ports	Description
<b>SFP+</b>	SFP+ ports for 10 Gbps connection
<b>QSFP-DD</b>	QSFP-DD ports for 400 Gbps connection
<b>RJ45 Console</b>	An RJ45 console port for serial management
<b>Micro-USB Console</b>	A Micro-USB console port for serial management
<b>MGMT</b>	A 1000BASE-T RJ-45 port for Ethernet management
<b>USB</b>	A USB management port for software and configuration backup and offline software upgrade

<b>1PPS Timing</b>	A 1PPS (1 Pulse Per Second) Timing port for time synchronization
--------------------	--

**Front Panel Button**



1. Reset

Button	Description
Reset	Press the button to restart the whole system.



**NOTE:** For information on LEDs, check the PicOS manual or hardware guide online, or ask the technical support personnel for help.

**Installation Requirements**

Before the installation, make sure that you have prepared the following items:

- Standard-sized, 19-inch-wide rack with a minimum of 1U height available.
- Category 5e or higher RJ45 Ethernet cables, fiber optical cables, and console cables.
- Phillips screwdriver and adjustable wrench.
- ESD bracelet, ESD gloves, or ESD clothing.
- Cable ties, marker, and utility knife.

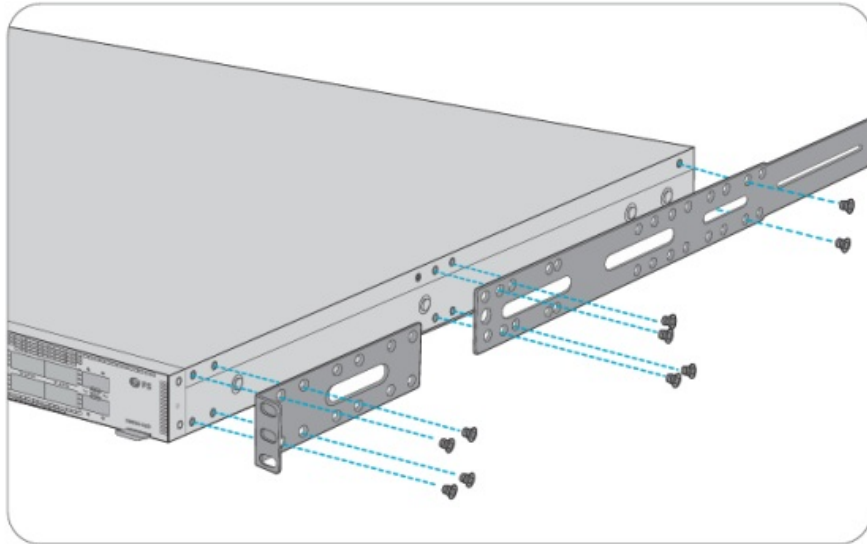
**Site Environment**

- Make sure that the operating temperature is maintained within 0°C to 45°C.
- Make sure that the operating humidity is maintained within 5% to 95%.
- Make sure that the installation site is well-ventilated to ensure sufficient airflow around the switch.
- Make sure that the installation site is free of dust, leaks, drips, heavy condensation, and moisture.
- Make sure that the rack is properly grounded.

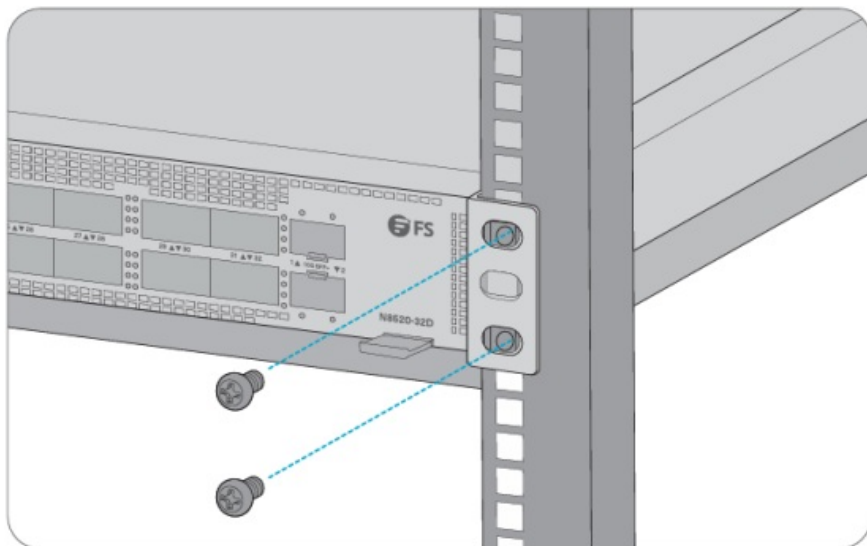
- Avoid installing the equipment against the wall to facilitate heat dissipation and maintenance, and make sure that there is adequate space around its four sides.

## Mounting the Switch

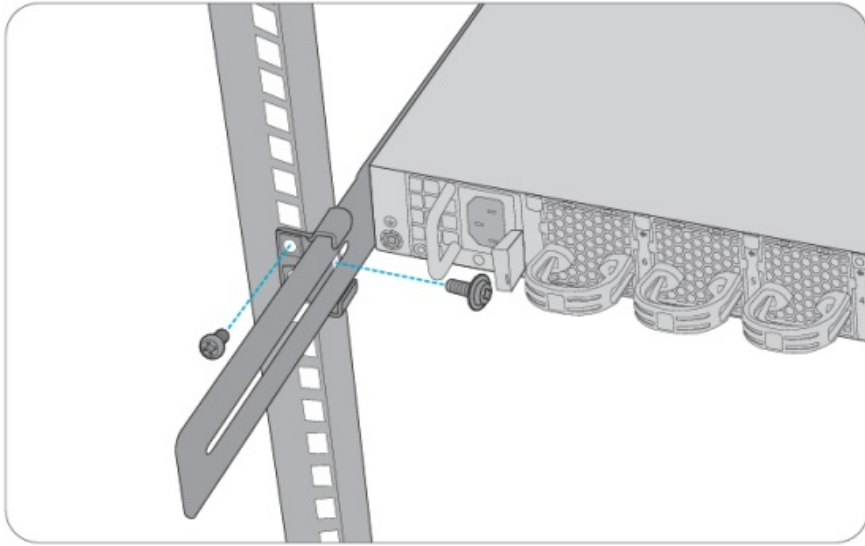
### Rack Mounting



1. Attach the front-post brackets and rear-post brackets to the two sides of the switch using the bracket-mounting screws.

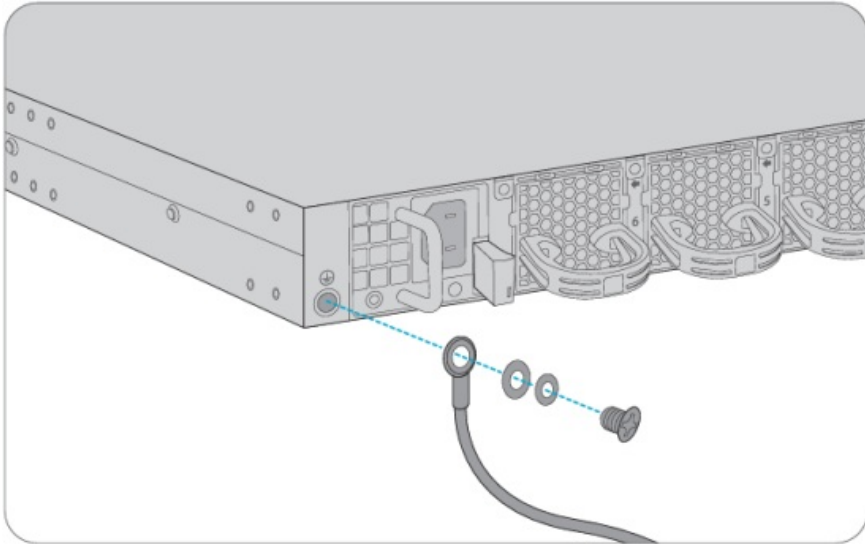


2. Secure the switch to the rack by fastening the front and rear mounting ears with self-provided screws and cage nuts.



3. Lock the position of the rear mounting ears using the ear-locking screws.

#### Grounding the Switch

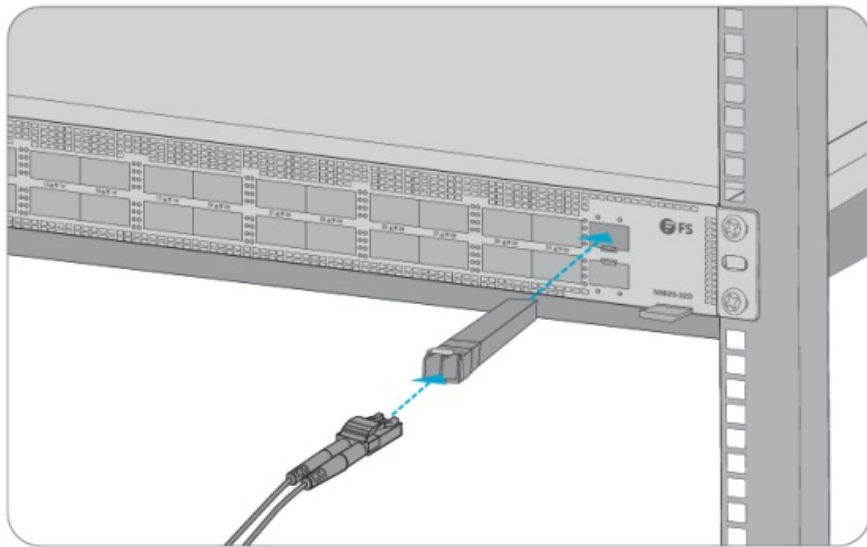


1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Securely connect the other end of the grounding cable to the switch back panel using the screw and the washer.



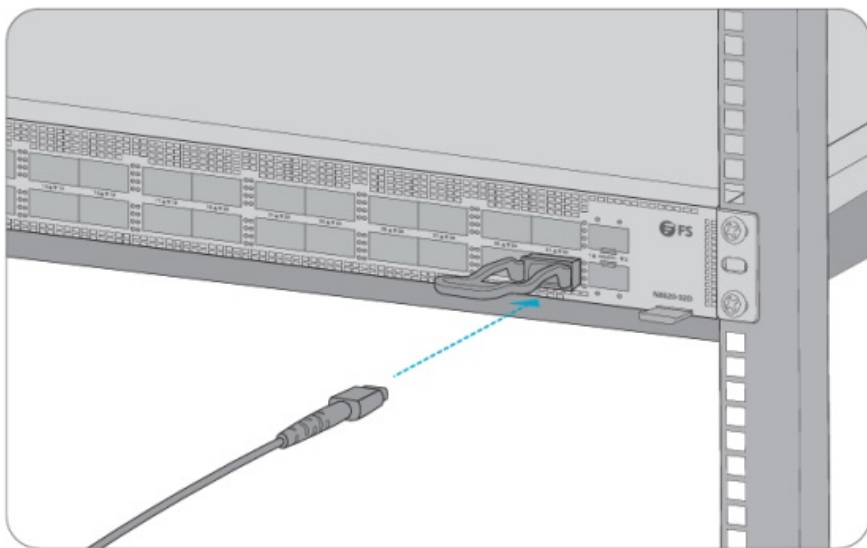
**CAUTION:** The earth connection must not be removed unless all supply connections have been disconnected.

#### Connecting the SFP+ Port



1. Insert a SFP+ transceiver into the switch.
2. Connect a fiber optic cable to the transceiver. Then connect the other end of the cable to other fiber devices.

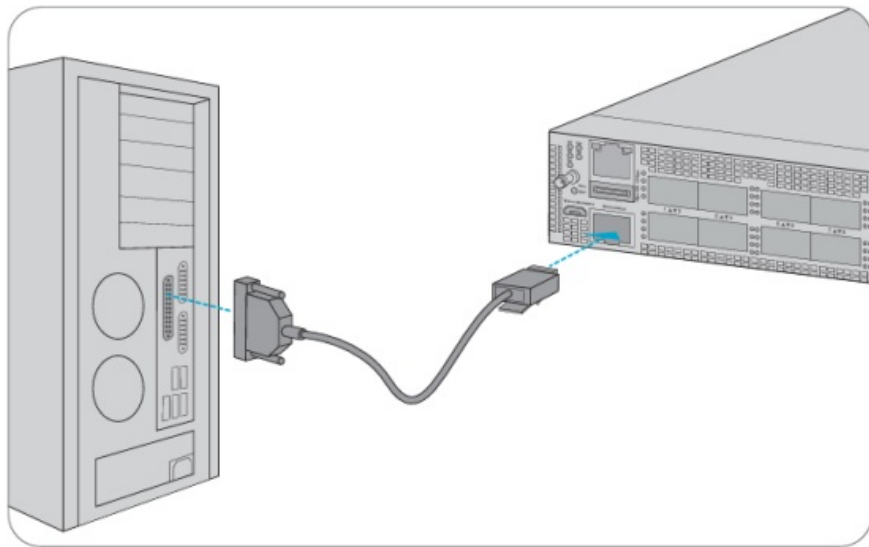
#### Connecting the QSFP-DD Ports



1. Insert a QSFP-DD transceiver into the switch.
2. Connect a fiber optic cable to the transceiver. Then connect the other end of the cable to other fiber devices.

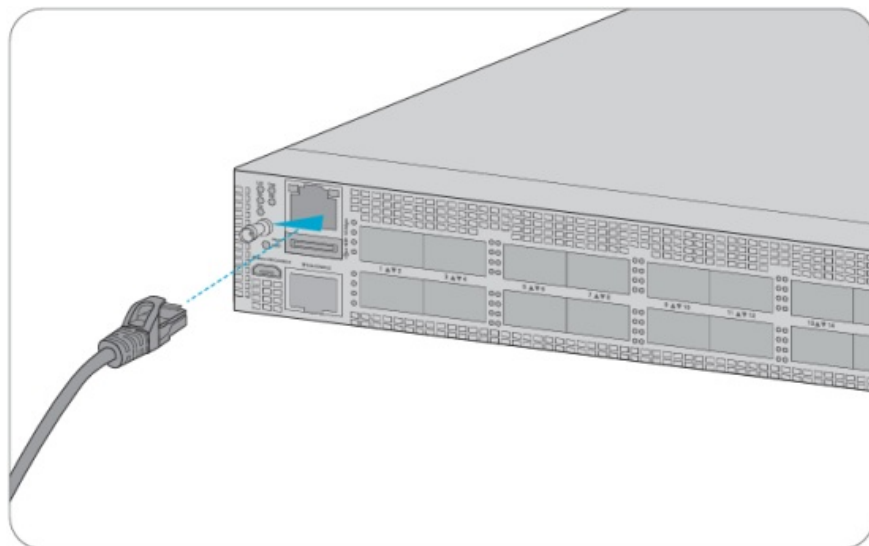
#### Connecting the RJ45 Console Port





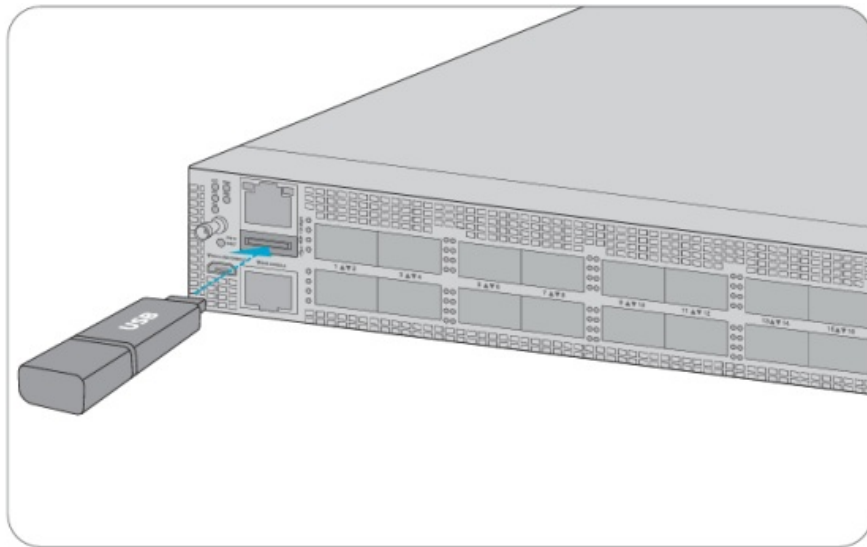
1. Connect the RJ45 end of a console cable to the RJ45 console port of the switch.
2. Connect the DB9 end of the cable to the serial port of a computer.

#### **Connecting the MGMT Port**



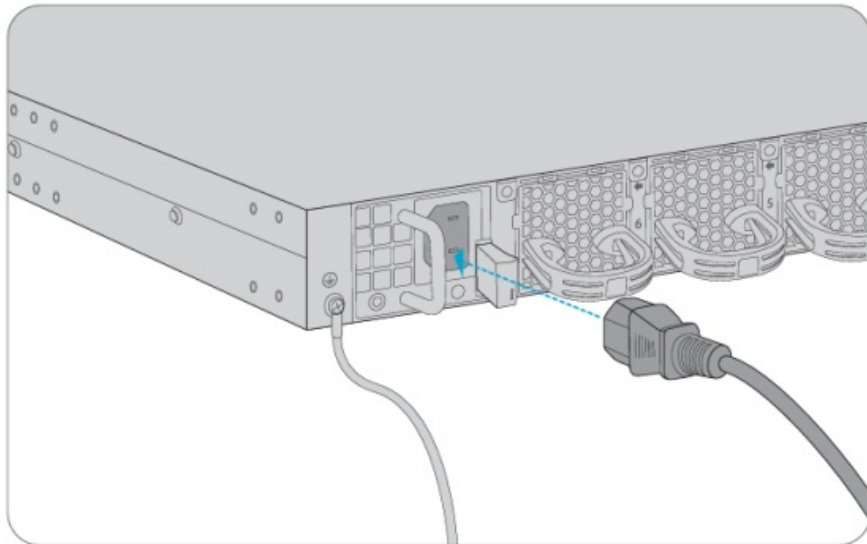
Connect the MGMT port of the switch to a computer with a standard RJ45 Ethernet cable.

#### **Connecting the USB Port**



Insert a Universal Serial Bus (USB) flash disk into the USB port of the switch.

### Connecting the Power



Install one or two AC PSUs and connect them to an AC power source.



**NOTE:** When using a single AC PSU to power a fully loaded system, a high-voltage power supply (200-240 VAC) must be used.

### Troubleshooting

#### Power Module Failure

- Check if the power module is compatible with the equipment.
- Check if the power cord is fully seated. Unplug and reconnect it.
- Clean accumulated dust from the power module if present.

### Fan Module Failure

- Check if the fan module is fully seated. Unplug and reconnect it.
- Clean foreign matters from the air intakes and air outlets if present.

### Serial Port Failure

- Check if the serial port cable is correctly connected at both ends.
- Check if the serial port parameters (e.g., baud rate, stop bits) are correctly configured.

### MGMT Port Failure

- Check if the Ethernet cable is correctly connected at both ends.
- Check if network interface settings (e.g., IP address, subnet mask) are correctly configured.

If the above issues persist, please contact technical support.

### Product Warranty

FS ensures our customers that for any damage or faulty items due to our workmanship, we will offer a free return within 30 days from the day you receive your goods. This excludes any custom-made items or tailored solutions.



Warranty: The product enjoys a 5-year limited warranty against defects in materials or workmanship. For more details about the warranty, please check at <https://www.fs.com/policies/warranty.html>



Return: If you want to return the item(s), information on how to return can be found at [https://www.fs.com/policies/day\\_return\\_policy.html](https://www.fs.com/policies/day_return_policy.html)

### Online Resources



For additional technical documents, visit:

[https://www.fs.com/technical\\_documents.html](https://www.fs.com/technical_documents.html)

Download the FS App





Scan the QR code to download and install the FS app from the App Store or Google Play Store or go to <https://www.fs.com/appdownload.html>



Q.C. PASSED

Copyright © 2025 [FS.COM](https://www.fs.com) All Rights Reserved.

Documents / Resources

  <small>FS N8520-32D DATA CENTER SWITCH 32-PORT 10/40G SFP+ STACKABLE 1U 32-PORT 10/40G SFP+ STACKABLE P=32-PORT 10/40G SFP+ STACKABLE Data Center Switch N8520-32D 1U 32-PORT 10/40G SFP+ STACKABLE</small>	<p><a href="#">FS N8520-32D Data Center Switch [pdf]</a> User Guide</p> <p>N8520-32D, N8520-32D Data Center Switch, Data Center Switch, Center Switch, Switch</p>
---	---

References

- [User Manual](#)

Center Switch, Data Center Switch, FS, N8520-32D, N8520-32D Data Center Switch,

FS switch

# Leave a comment

Your email address will not be published. Required fields are marked \*

Comment \*

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

**Post Comment**

**Search:**

e.g. whirlpool wrf535swhz

**Search**

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.