

FS M6800 Series OTN Platform User Guide

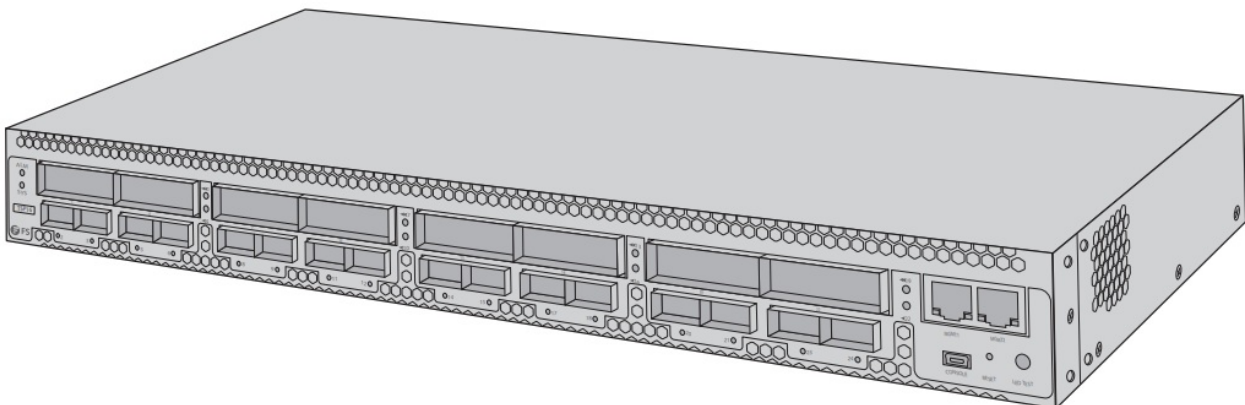
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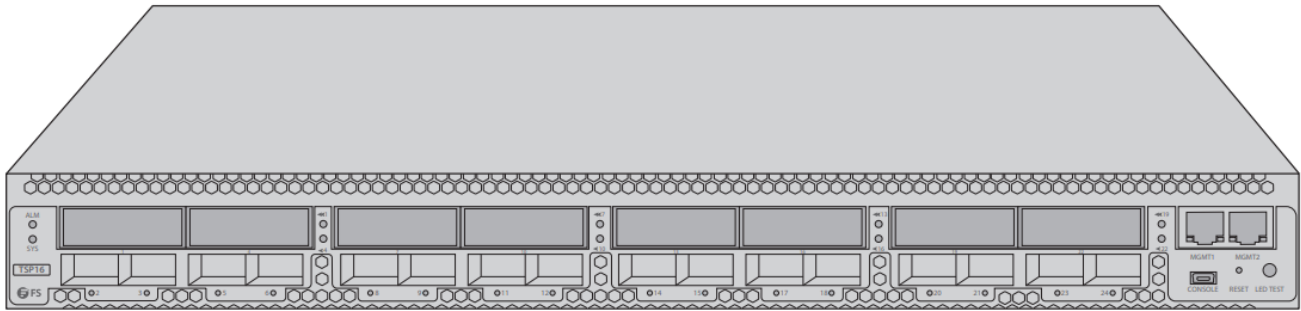


FS M6800 Series OTN Platform User Guide



Introduction

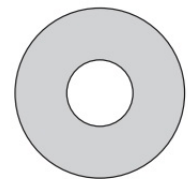
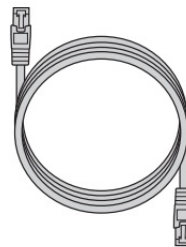
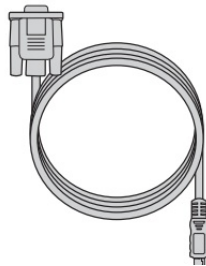
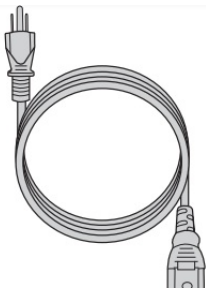
M6800-TSP16 is an OTN transmission platform customized for Data Center Interconnect (DCI) applications. It's up to eight single wavelength 200G channels, with 8x 200G CFP2 coherent optics uplinks on the line side, and 16x 100G QSFP28 on the client side.



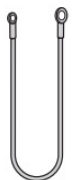
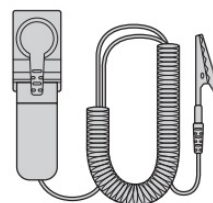
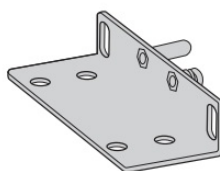
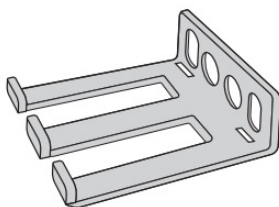
M6800-TSP16

Accessories

1. Power Cord x2
2. Console Cable x1
3. Ethernet Cable x1
4. CD x1



5. Cable Manager x1
6. Mounting Bracket x2
7. ESD Wrist Strap x1
8. Grounding Cable x1

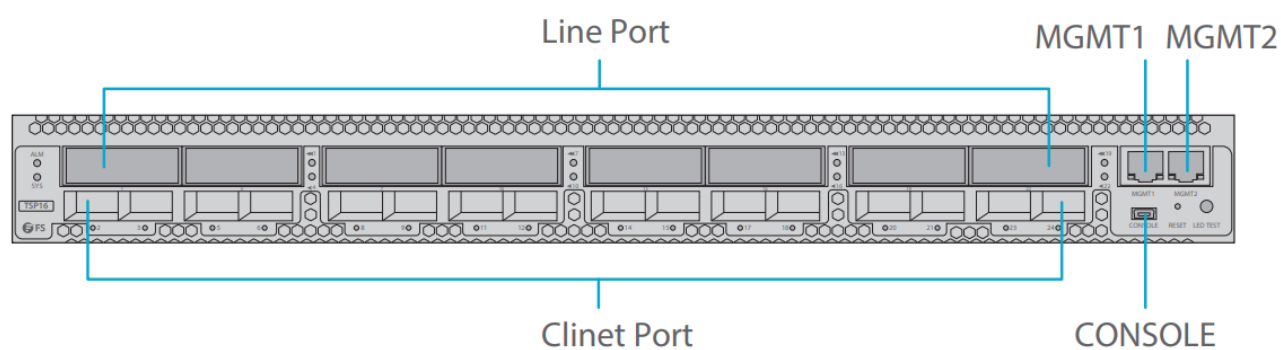


9. M6 Screw Set x4
10. M4 Screw x8



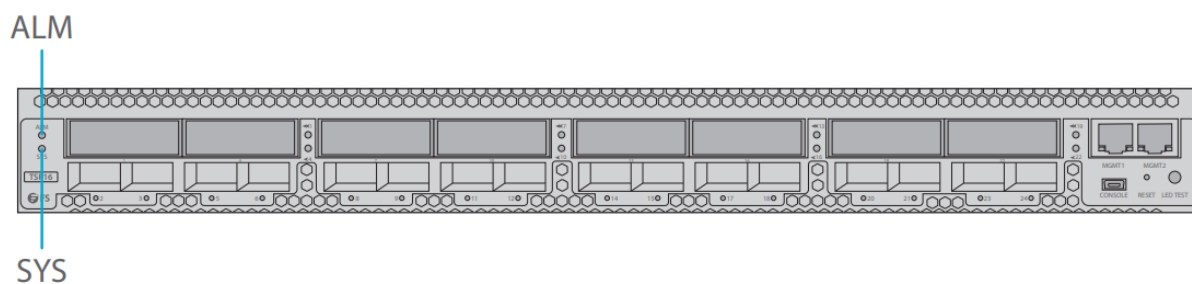
Hardware Overview

Front Panel Ports



Port	Port Type	Description
Clinet Port	QSFP28	Support 16x 100G QSFP28
Line Port	CFP2	Support 8x coherent 200G CFP2
MGMT1~2	RJ45 ETH	Connect to the local network management computer
CONSOLE	Micro USB	Debugging & Upgrading port

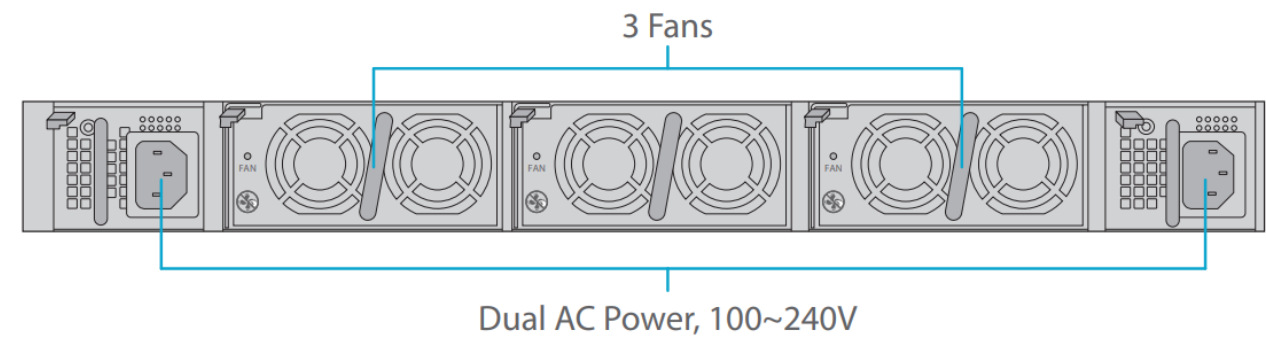
Front Panel LED



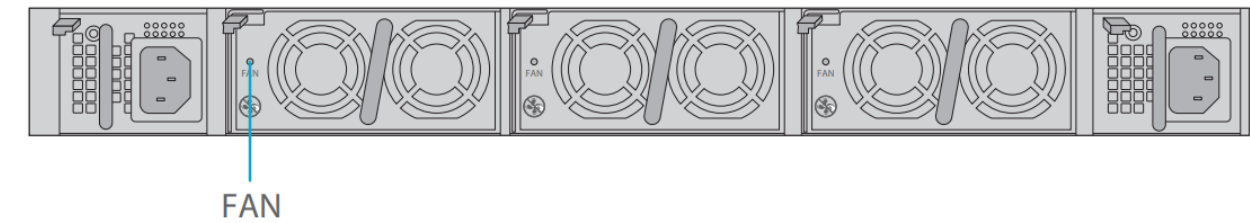
LED	Status	Description
SYS	Slow Flash of Green Light	The system works normally.
	Always OFF	The system is not normally enabled.
ALM	Quick Flash of Red Light	There is a critica alarm of the device.
	Slow Flash of Red Light	There is a major alarm of the device.
	Always Red	There is a minor alarm of the device.
	Always OFF	There is no alarm of the device.

Back Panels

LED	Status	Description
Port Indicator	Always OFF	The port is disabled.
	Quick Flash of Red Light	There is a mismatch alarm of the port.
	Always Red	There is a los alarm of the port.
	Always Green	There is no los and mismatch alarm of the port.



Back Panel LED



LED	Status	Description
FAN	Always Green	There is no alarm of those fans.
	Always Red	There is alarm of those fans.

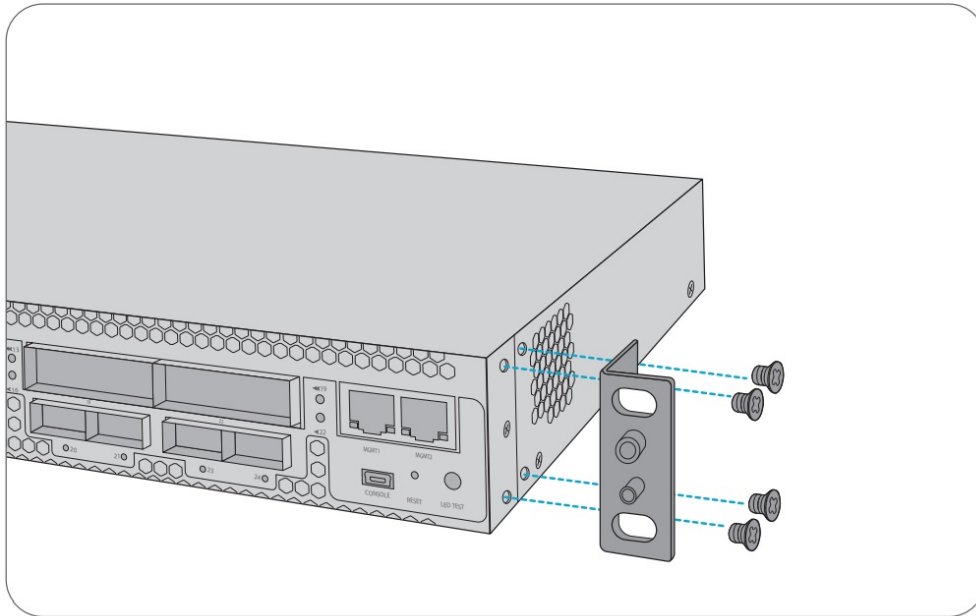
Site Environment

Keep the equipments indoors. If it is in rainy season or in humid environment, dehumidification measures must be taken.

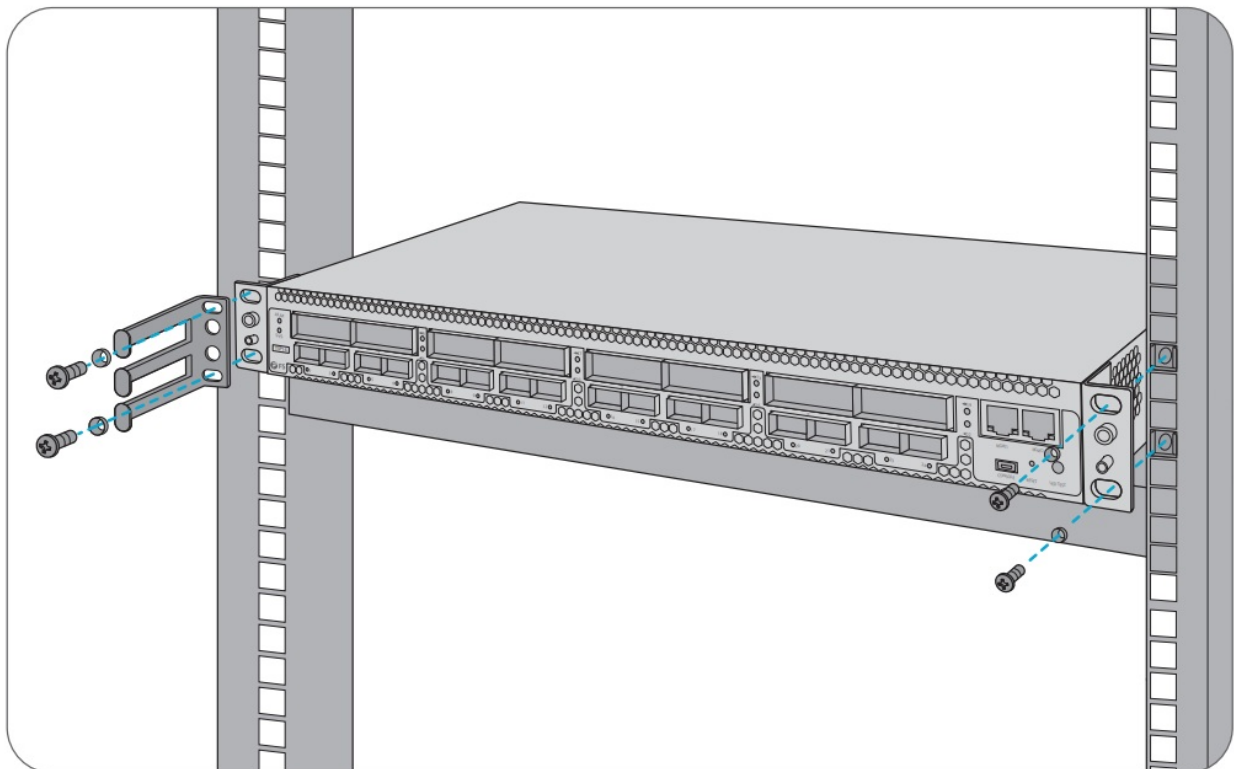
Ensure there is no water on the storage floor and no leakage to the packing box of the equipment. Avoid automatic fire fighting facilities, heating system and other places where leakage may occur.

1. Installing

Installing Mounting Brackets

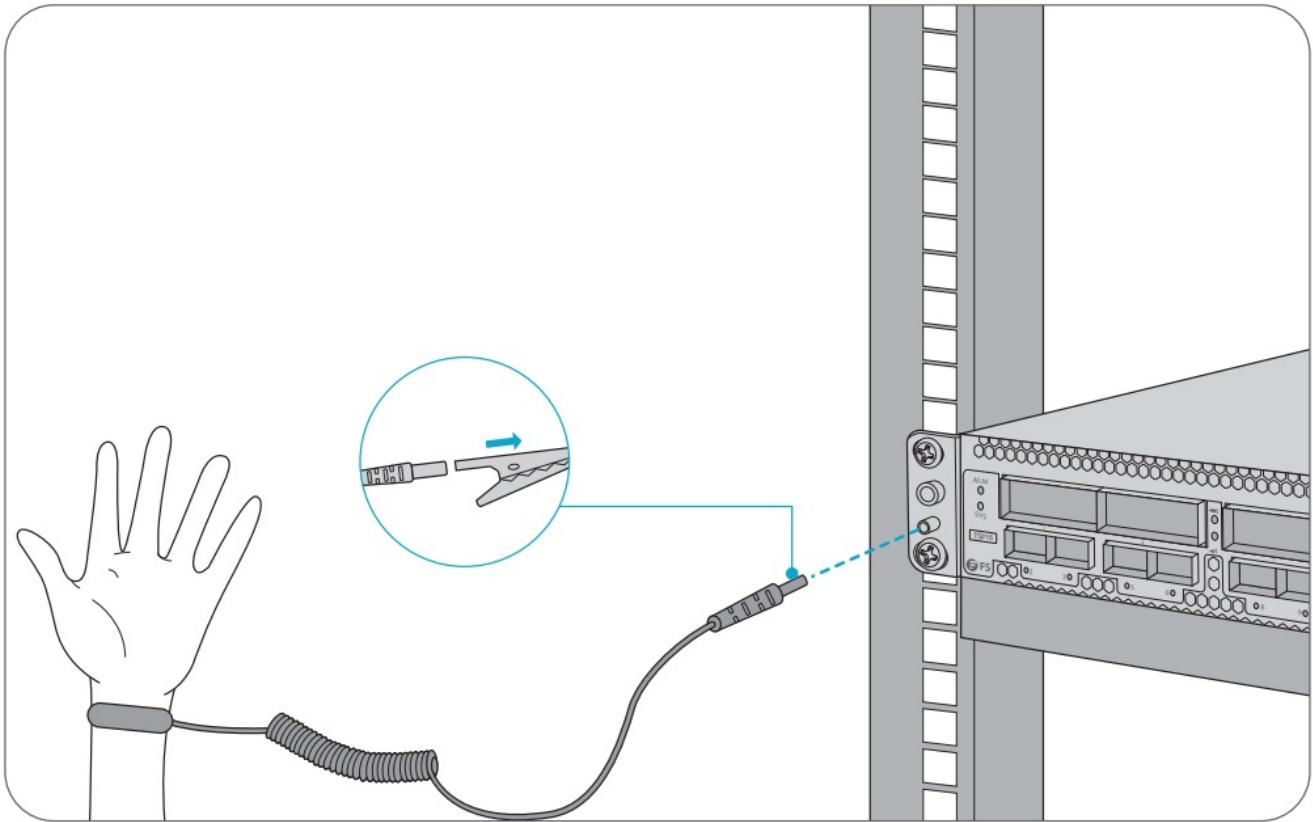


1. Secure the mounting brackets to the two sides of the 200G transponder with 8x M4 screws.



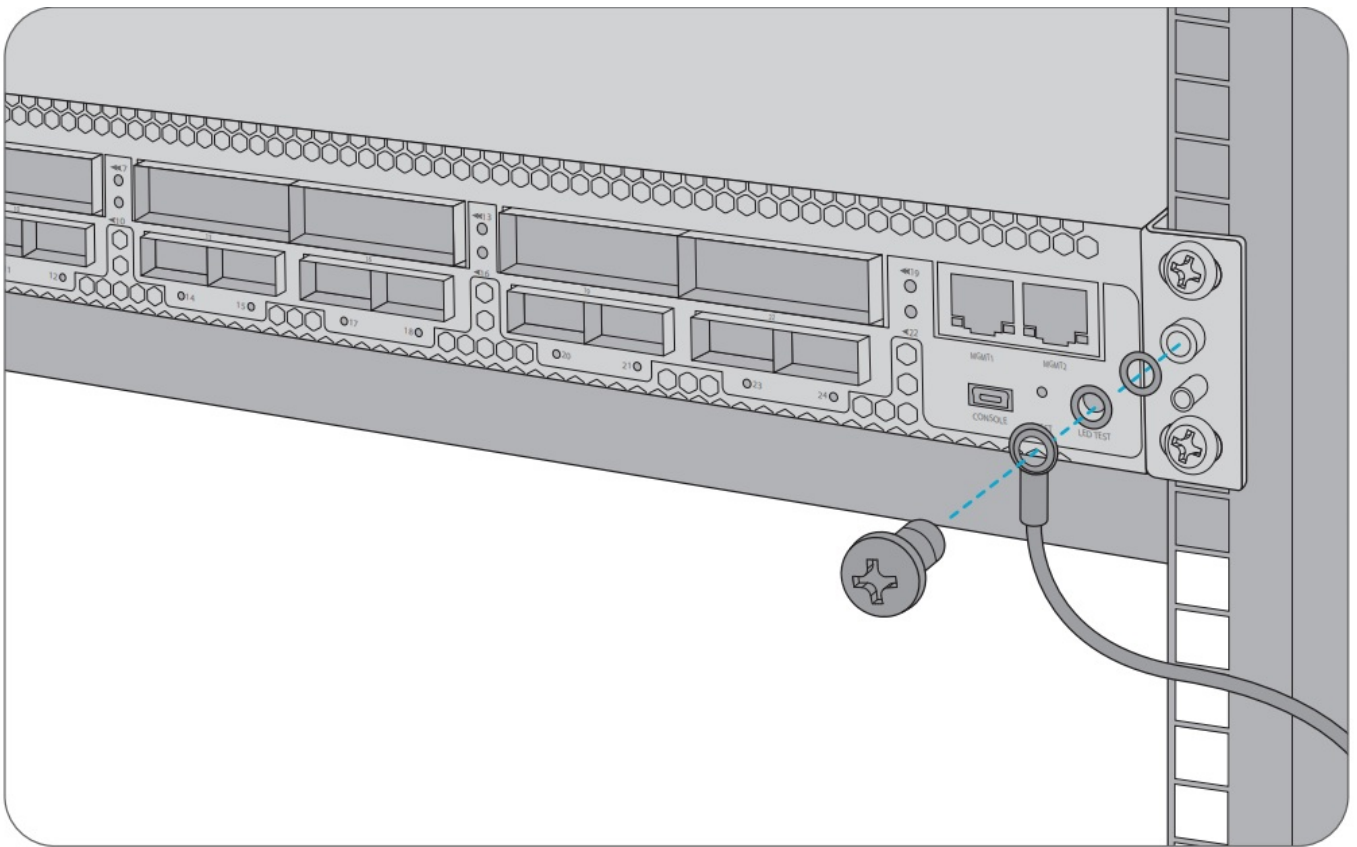
2. Put the 200G transponder on the shelf in the cabinet.
3. Install and tighten the panel with 4 sets of M6 screws.
4. Cable manager can be installed together with mounting brackets to the cabinet.

Wearing ESD Wrist Strap



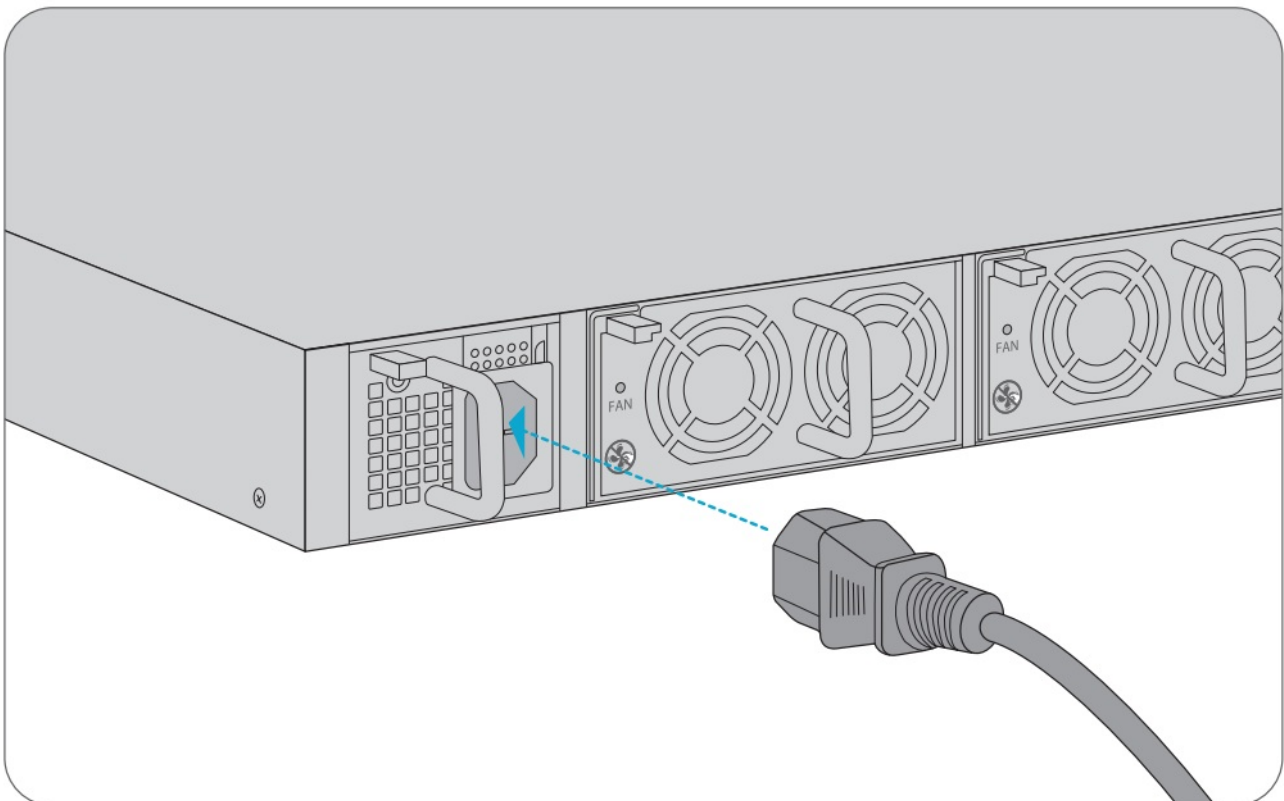
1. Before touching any device or module, wear an ESD wrist strap or ESD gloves to protect sensitive components against electrostatic discharge from the human body.
2. Connect other end of the ESD wrist strap to the PGND point on the device.

Grounding the 200G Transponder



1. Secure the grounding lug to the grounding point on the chassis front panel with the washers and screws.
2. Connect the other end of the cable to a proper earth ground, such as the rack in which 200G transponder is mounted.

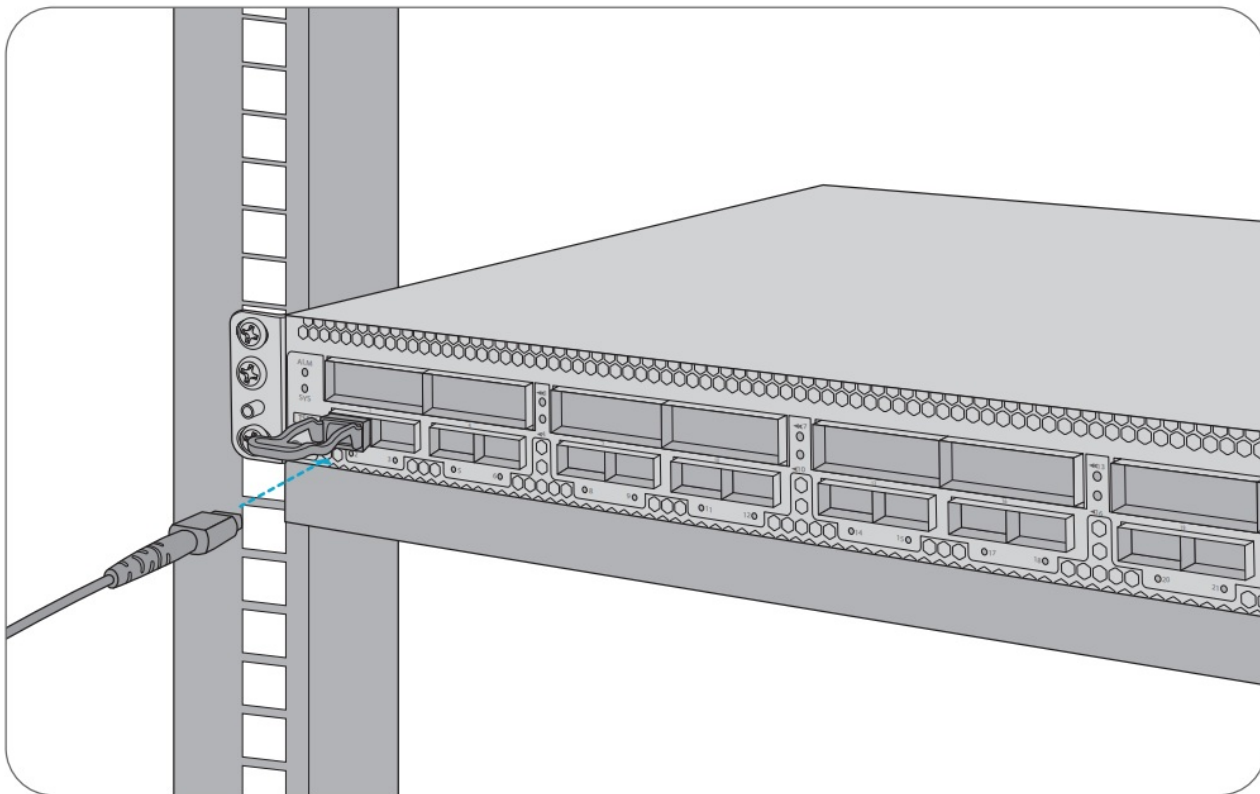
Connecting Power Cord



1. Plug AC power cord into the power port on the front panel of AC power module.
2. Connect the other end of the power cord to an AC power source.

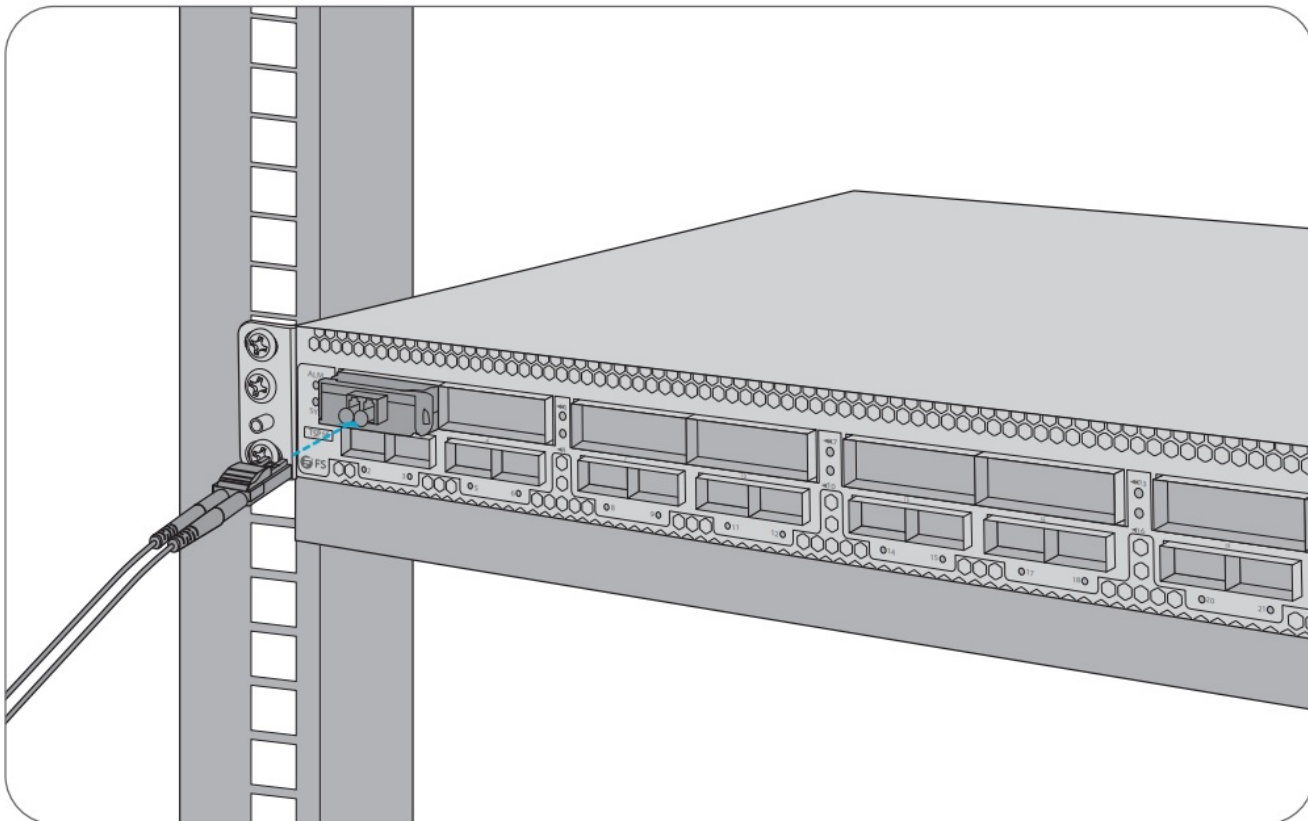
WARNING: Do not install power cables while the power is on.

Connecting QSFP28 Transceiver



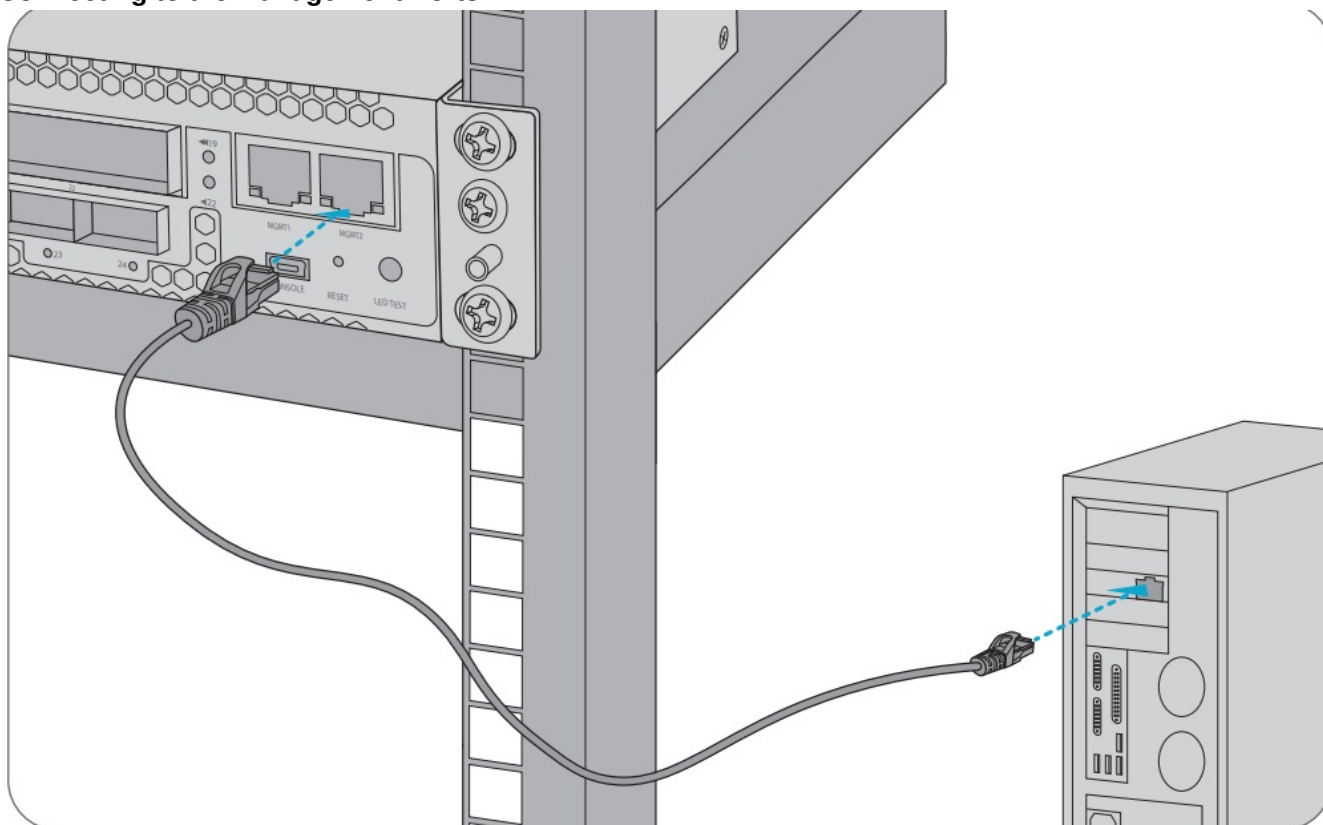
1. Plug the QSFP28 transceiver into the QSFP28 slot on transponder.
2. Connect one end of fiber cable to the QSFP28 transceiver.
3. Connect the other end of fiber cable to switch.

Connecting Coherent CFP2 Transceiver



1. Plug the CFP2 transceiver into the CFP2 slot on transponder.
2. Connect one end of fiber cable to the CFP2 transceiver.
3. . Connect the other end of fiber cable to mux demux or optical amplifier module.

Connecting to the Management Ports

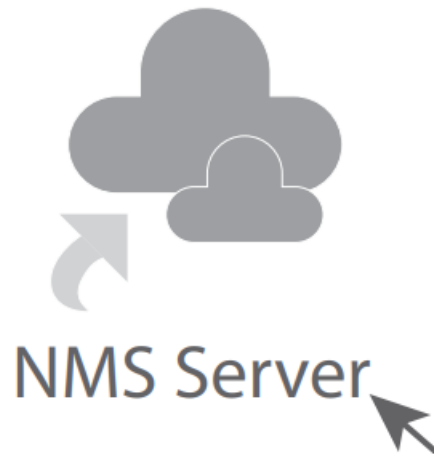


1. Connect one end of the standard RJ45 Ethernet cable to the MGMT1&2 port on the 200G transponder.
2. Connect the other end of cable to a computer.

Configuring the M Series Platform

Configuring the M Series Platform Using the Web-based Interface

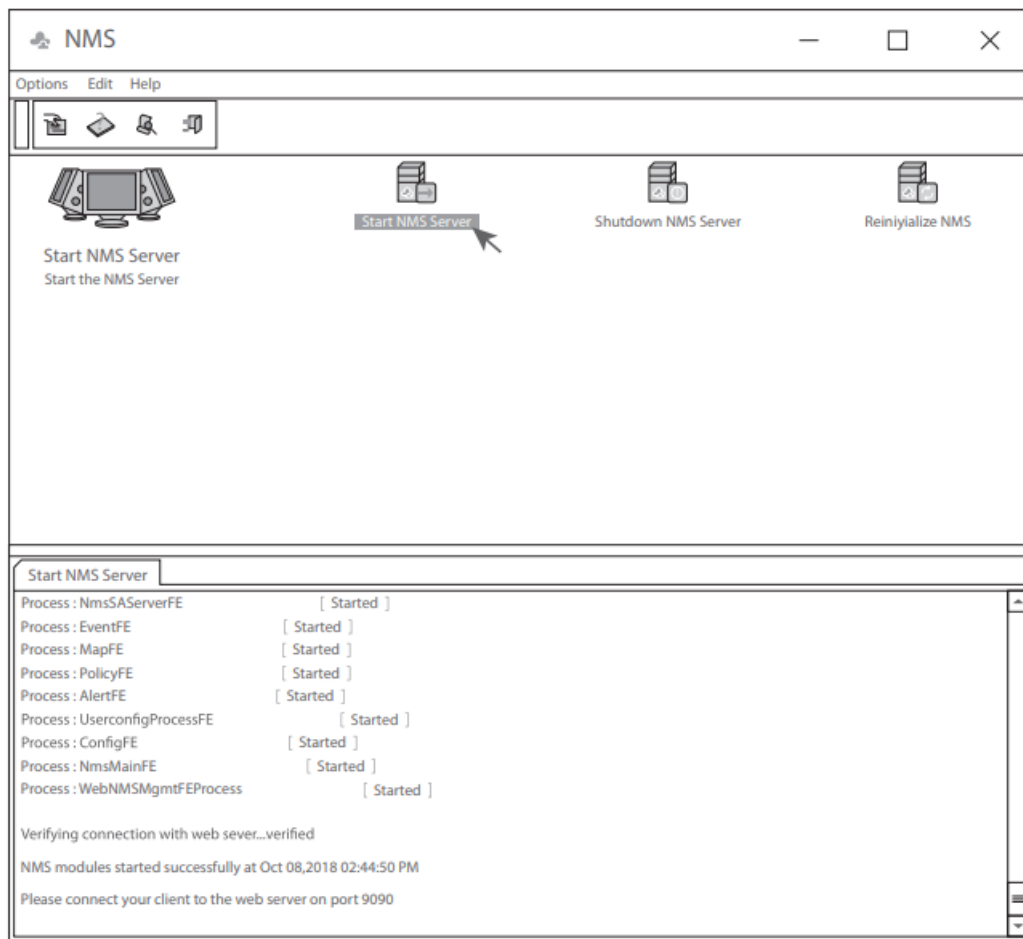
- Step 1: Connect your computer with the network cable to any Ethernet MGMT port of the NMU module.
- Step 2: Get the NMS software from the CD of chassis accessories or deownload the file “NMS software”



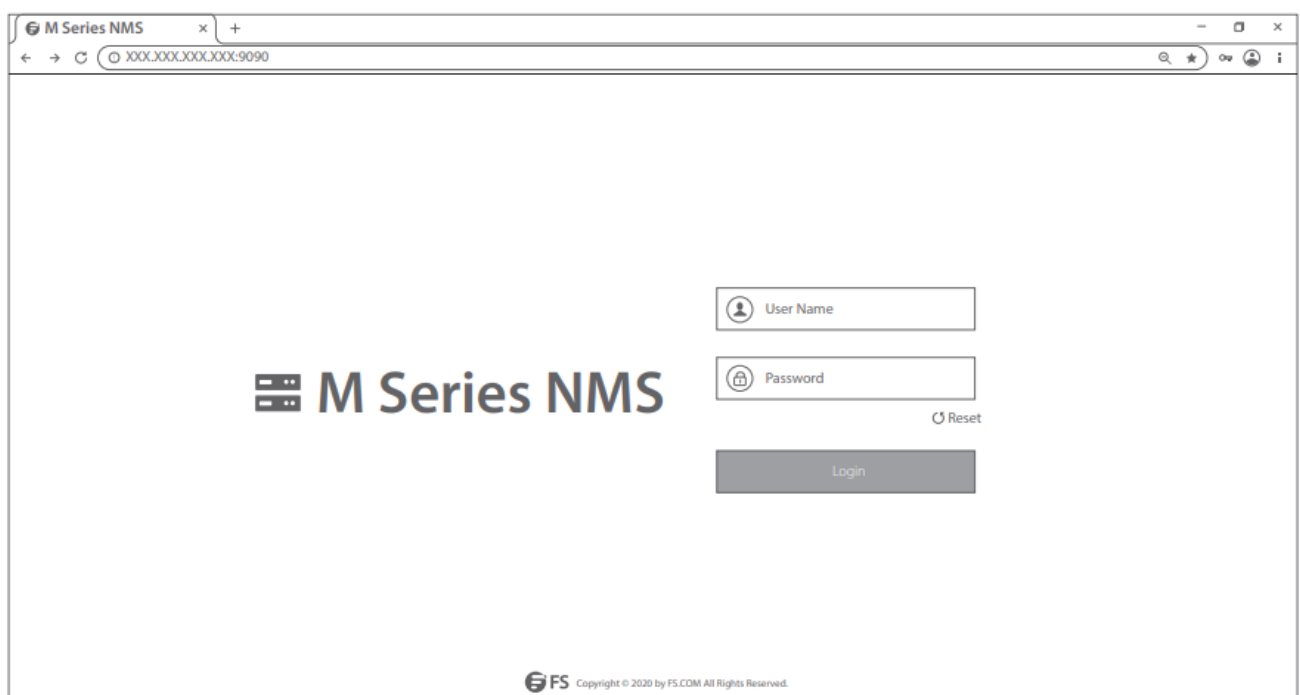
- Step 3: Double Click “NMS Server” icon on the desktop and the dialogue box of license validation will pop up. Enter the license key(included in the CD) to finish validation. (If you can’t find the license key, please contact FS asles manager for help.)

A screenshot of a Windows-style dialog box titled "License Tool". It has a standard title bar with a minimize button, a maximize button, and a close button. The main content area contains the text "Please Enter the Key:" followed by a label "Key:" and a large empty rectangular text input field. At the bottom right, there are two buttons: "Validate" and "Close". A mouse cursor arrow is pointing at the "Validate" button.

- Step 4: Then the NMS server interface pops up. Double click “Start NMS Server” to run the server, when it prompts “Please connect your client to the web server on port: 9090”, it means that you have successfully started the NMS server. And then you can close the NMS Server window, the server is still running in the background.



- Step 5: Open a browser window. (Recommend IE11.0 and above version or Google Chrome browser).
 1. If you log in from local NMS host, enter localhost:9090 in the address bar to open the login interface.
 2. If you log in from other remote host, enter the server IP address XXX.XXX.XXX.XXX:9090 (IP address of NMS server) to open the login interface.
- Step 6: Enter correct user name and password (For the administrator, the default login user name is “root”, and the default password is “public”), as shown in the figure below:



- Step 7: Click login, you are now ready to configure M series platform.

The image shows the FS logo in the top left corner. Below it is a perspective view of the FS M6800 Series OTN Platform device, a long, low-profile rack-mountable unit with multiple ports and indicator lights along its front edge.

References

- [!\[\]\(3da2b303d29c1ea489bbe26a3f5ac664_img.jpg\) FS.com - Data Center, Enterprise, Telecom](#)
- [!\[\]\(9421cea5a5b5319f79b58962509475ab_img.jpg\) Quality Certification - FS.com](#)
- [!\[\]\(17cce402a0380c36f25e02ecf91578f5_img.jpg\) Ein weltweit führender Anbieter von Hochgeschwindigkeits-Konnektivitätsgeräten und -lösungen. - FS.com Deutschland](#)
- [!\[\]\(1086da34995924f924c8e8e23387d139_img.jpg\) FS.com - Data Center, Enterprise, Telecom](#)
- [!\[\]\(ffa6dd4cd8800071ccc1a355540c540c_img.jpg\) Contact Us - FS.com](#)
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- [!\[\]\(406c76dc95713637836155a54c3b56d5_img.jpg\) Rückgaberecht - FS.com Deutschland](#)
- [!\[\]\(b950fe96ed6737d8544db83990032195_img.jpg\) Ein weltweit führender Anbieter von Hochgeschwindigkeits-Konnektivitätsgeräten und -lösungen. - FS.com Deutschland](#)
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- [!\[\]\(bb20e4cc9af9ca0b97fbe827353956b8_img.jpg\) Technical Documents - FS.com](#)
- [!\[\]\(c214ddf0ae2379eaabf8c69e717ce4dc_img.jpg\) Fournisseur leader de solutions et matériels de connectivité à haut débit - FS.com France](#)
- [!\[\]\(4ab8b8afe6b00cdef47511259a876ad4_img.jpg\) Comment Nous Contacter - FS.com France](#)
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- [!\[\]\(8c8472ec338d907500225220409b1481_img.jpg\) Fournisseur leader de solutions et matériels de connectivité à haut débit - FS.com France](#)
- [!\[\]\(2b5e107f13a13f50a6b1482f36f06f97_img.jpg\) Centre d'aide - FS.com France](#)
- [!\[\]\(39482ed3bcfe2ba50520433d9205a285_img.jpg\) Return Policy - FS.com](#)
- [!\[\]\(837fdffbdc2714c7326eb13becbfe609_img.jpg\) Products Warranty - FS.com](#)
- [!\[\]\(47027272cb017b71934656bdd9d247f7_img.jpg\) Help Center - FS.com](#)