

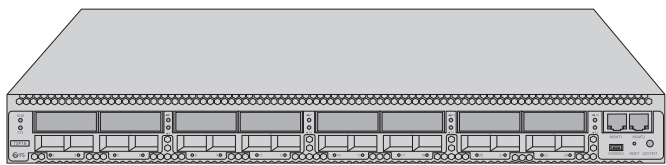
M Series

M6800 SERIES OTN PLATFORM

Quick Start Guide **V1.0**

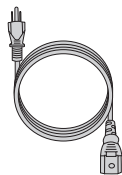
Introduction

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.

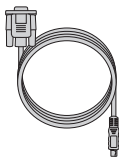


M6800-TSP16

Accessories



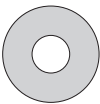
Power Cord x2



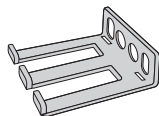
Console Cable x1



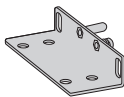
Ethernet Cable x1



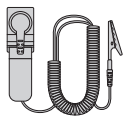
CD x1



Cable Manager x1



Mounting Bracket x2



ESD Wrist Strap x1



Grounding Cable x1



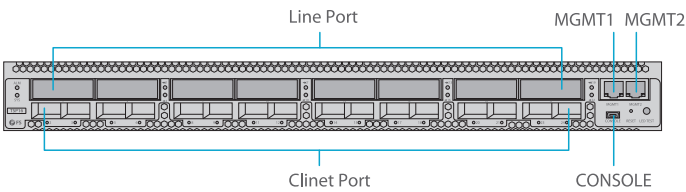
M6 Screw Set x4



M4 Screw x8

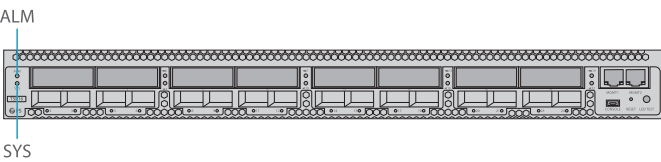
Hardware Overview

Front Panel Ports



Port	Port Type	Description
Clnet 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

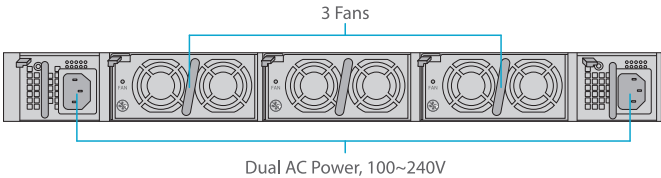
Front Panel LED



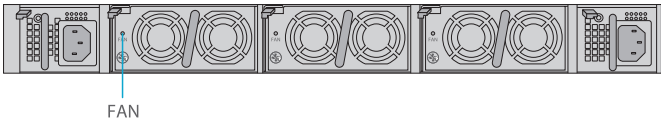
LED	Status	Description
SYS	Slow Flash of Green Light	The system works normally.
	Always OFF	The system is not normally enabled.
ALM	Quick Flash of Red Light	There is a critica alarm of the device.
	Slow Flash of Red Light	There is a major alarm of the device.
	Always Red	There is a minor alarm of the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

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 Panels



Back Panel LED



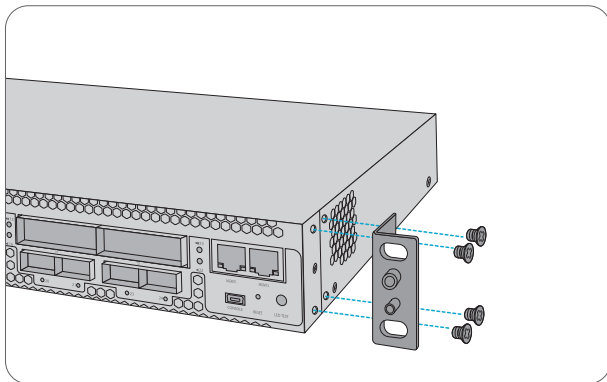
LED	Status	Description
FAN	Always Green	There is no alarm of those fans.
	Always Red	There is alarm of those fans.

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.

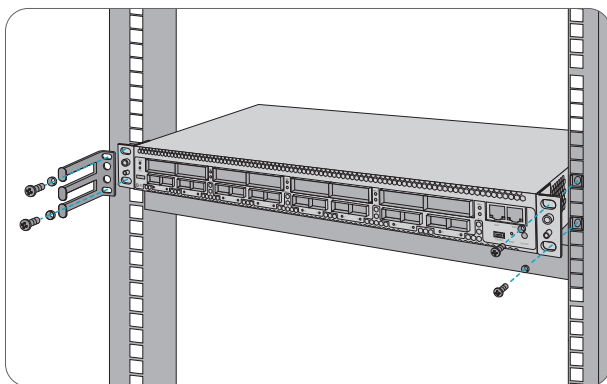
Installing

Installing Mounting Brackets



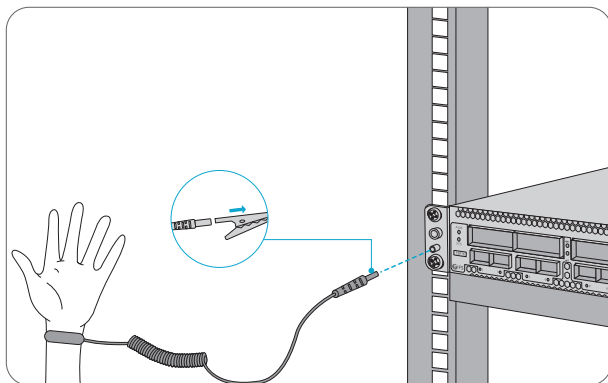
1. Secure the mounting brackets to the two sides of the 200G transponder with 8x M4 screws.

Rack Mounting



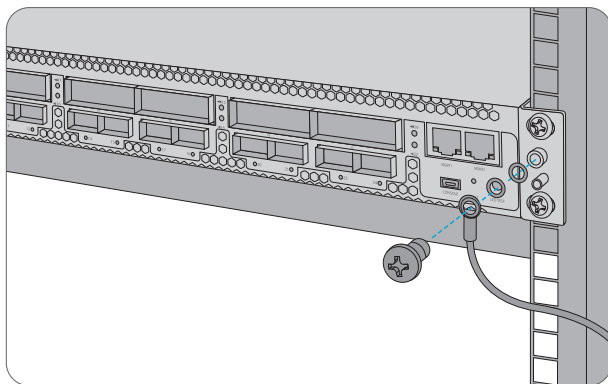
1. Put the 200G transponder on the shelf in the cabinet.
2. Install and tighten the panel with 4 sets of M6 screws.
3. Cable manager can be installed together with mounting brackets to the cabinet.

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

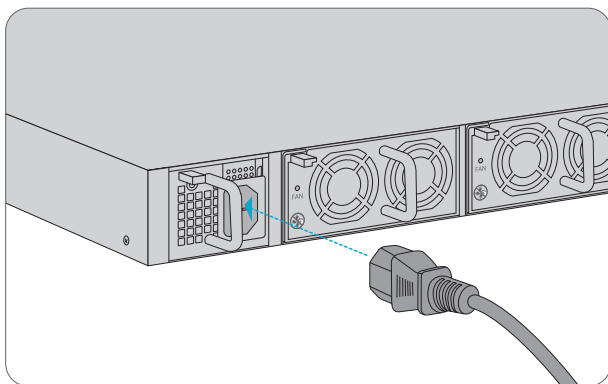


1. Secure the grounding lug to the grounding point on the chassis front panel with the washers and screws.
2. Connect the other end of the cable to a proper earth ground, such as the rack in which 200G transponder is mounted.



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

Connecting Power Cord

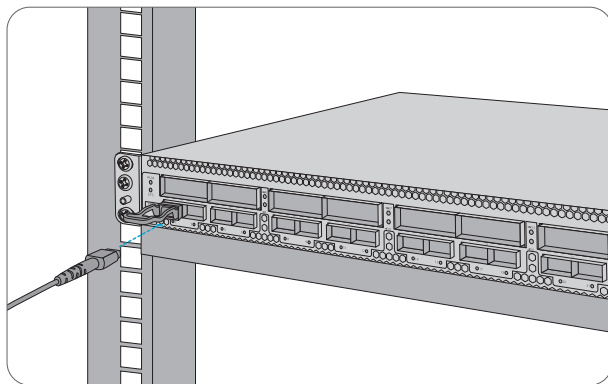


1. Plug AC power cord into the power port on the front panel of AC power module.
2. Connect the other end of the power cord to an AC power source.



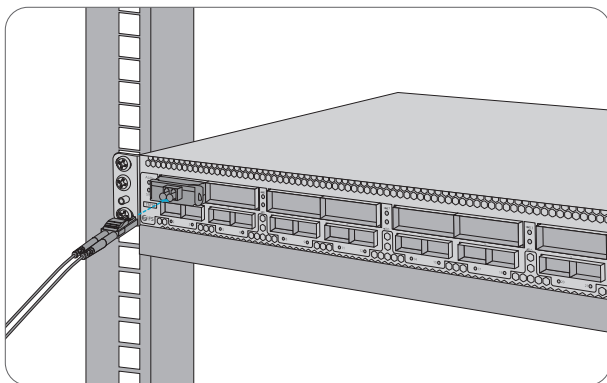
WARNING: Do not install power cables while the power is on.

Connecting QSFP28 Transceiver



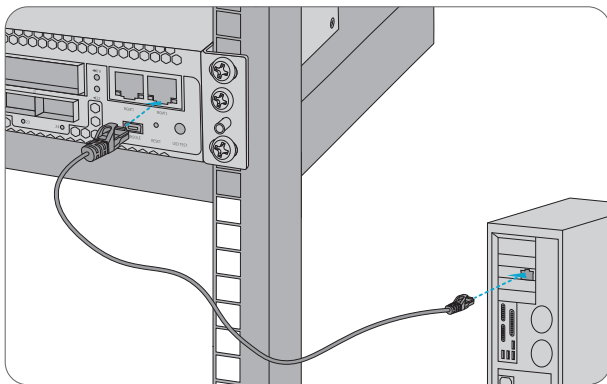
1. Plug the QSFP28 transceiver into the QSFP28 slot on transponder.
2. Connect one end of fiber cable to the QSFP28 transceiver.
3. Connect the other end of fiber cable to switch.

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.

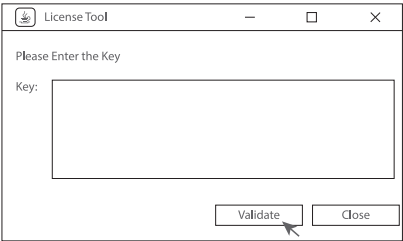
Configuring the M Series Platform

Configuring the M Series Platform Using the Web-based Interface

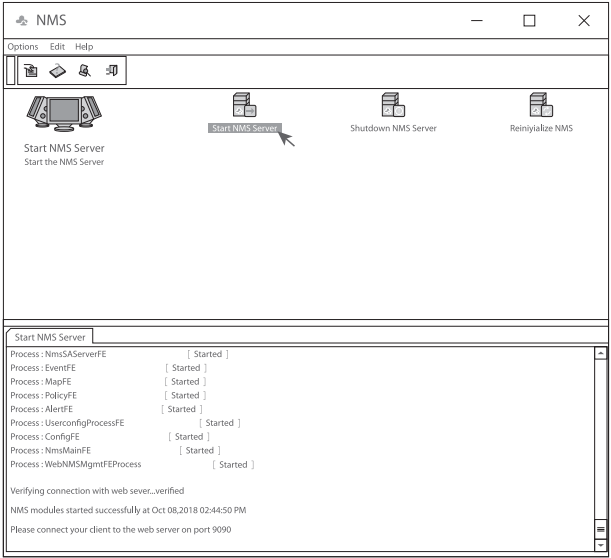
- Step 1: Connect your computer with the network cable to any Ethernet MGMT port of the NMU module.
- Step 2: Get the NMS software from the CD of chassis accessories or download the file "NMS software" online, and then install it.



- 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 sales manager for help.)



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.



NOTE: Refer to the **M SERIES NETWORK MANAGEMENT USER MANUAL** online for further information.

Troubleshooting

Module LEDs Working Abnormally

- 1. Check the power cable connections at the 200G transponder and the power source.
- 2. Make sure that all cables are used correctly and comply with the power specifications.

Accessing the Web-based Configuration Page Unsuccessfully

- 1. Check MGMT ports LED on the 200G transponder and make sure the Ethernet cable is connected properly.
- 2. Try another port on the 200G transponder and make sure the Ethernet cable is suitable and works normally.
- 3. Power off the 200G transponder. After a while, power it on again.
- 4. Make sure the IP address of your NMS server is correctly configured.
- 5. If you still cannot access the configuration page, please reinitialize NMS server to its factory defaults.

Business Module Cannot Be Added

1. Enter through CMD.
2. Ping business module IP to check whether it can communicate.
3. Check whether normal communication can be made between business module and NMU module.
4. Change another business module.

Online Resources

- Download <https://www.fs.com/download.html>
- Help Center https://www.fs.com/service/help_center.html
- Contact Us https://www.fs.com/contact_us.html

Product Warranty

FS ensures our customers that 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: M6800 series enjoy 2 years limited warranty against defect in materials or workmanship. For more details about warranty, please check at :
<https://www.fs.com/policies/warranty.html>



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