



FS M6500 200G OTN Platform User Guide

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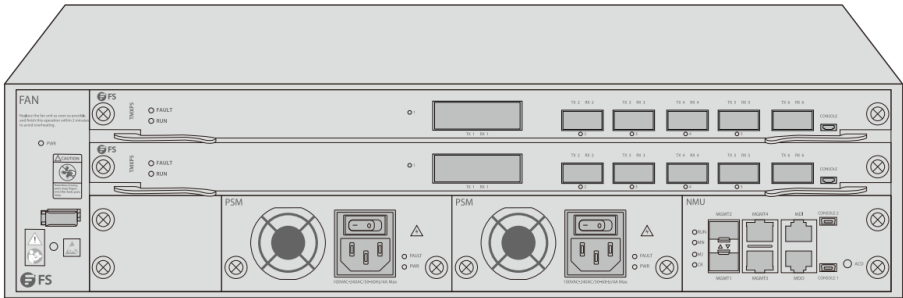
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Introduction

M6500 Series 200G Platform provides a managed, flexible and scalable architecture for fiber networks. It can support up tp 2x transponder/muxponder cards to construct a high transport capacity of 200G over a single wavelength in the optical transmission platform,

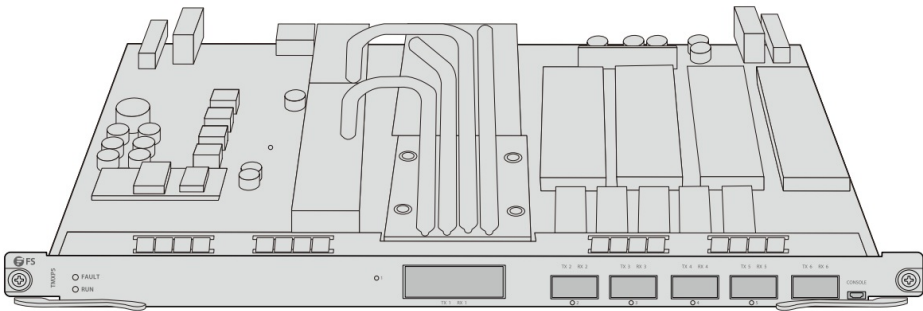
M6500 Series 200G Platfrom



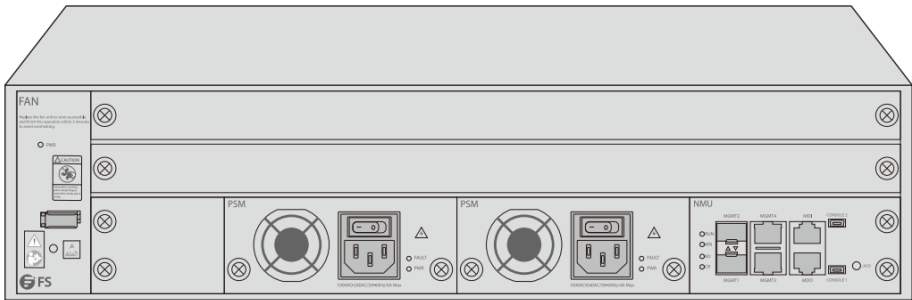
M6500 Series 200G Platfrom Overview

200G Transponder/Muxponder Module

M6500-TMXPS

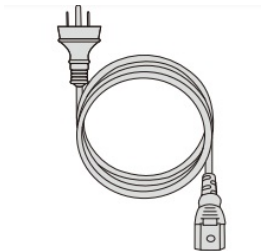


200G Managed Chassis

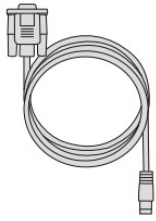


Accessories

- Power Cord x2



- Console Cable x1



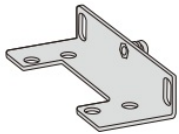
- Ethernet Cable x1



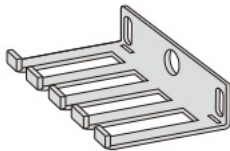
- USB Flash Drive x1



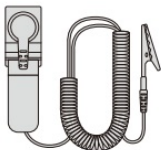
- Mounting Bracket x2



- Cable Manager x1



- ESD Wrist Strap x1



- Grounding Cable x1



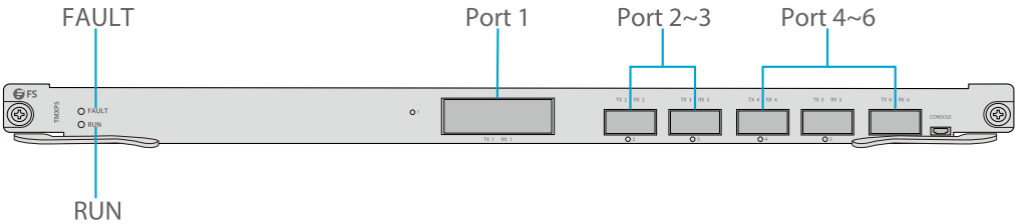
- M6 Screw Set x4



- M4 Screw x8



200G Transponder/Muxponder Module



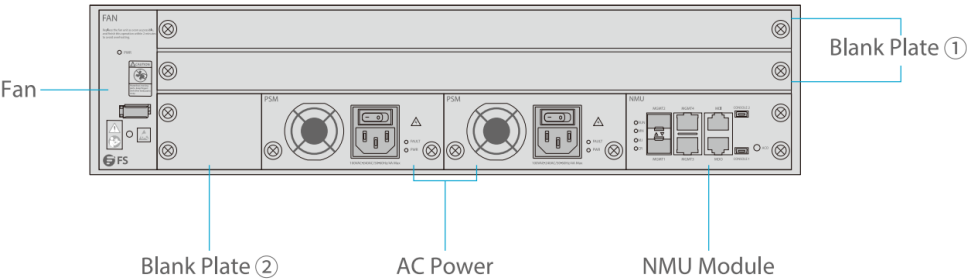
Front Panel Ports

Parts	Parts Type	Description
Parts 1		transport of J 00G/200G services
Port 2-3	QSFP28/QSFP+	Client interface, supports access of J OOG, 40G and J 0G services
Port4-6	QSFP+	Client interface, supports access of40G and J 0G services

Front Panel LEDs

LEDs	Alarm State	Description
RUN	Slow Flash of Green Light	been successfully started.
	Green Light Always OFF	The system has not been started.
FAULT	Quick Flash of Red Light	The board is mismatched.
	Slow Flash of Red Light	There is latchopen alarm of the board.
	Red Light Always ON	There is alarm of the board.
	Red Light Always OFF	There is no alarm of the board.

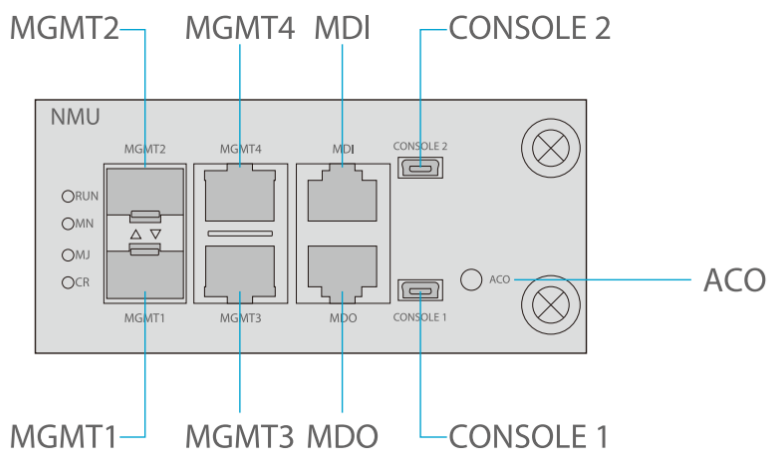
Managed Chassis



Front Panel Slots

Slots	Description
NMU Module	Network Management Unit (NMU), the main control module of chassis
Blank Plates	Used for 1-slot type M6500 200G Transponder/Muxponder
AC Power	AC power supplies, 100V-240V, 45Hz-65Hz
Blank Plate@	Optional BC power supply, -72V–40V
Fan	Support field-replaceable and hot-swappable

Networking Management Unit



Front Panel Ports

Ports	Port Type	Description
MGMT1&2	SFP	In and out-of-band OSC management
MGMT3&4	RJ45 ETH	Internet communication and management
MDI	RJ45 ETH	External alarm input interface
MDO	RJ45 ETH	External alarm output interface
CONSOLE1	Micro USB	Debugging & upgrading port, connects to active infrastructure modules
CONSOLE2	Micro USB	Debugging & upgrading port, connects to standby infrastructure modules

Front Panel LEDs

LEDs	Status	Description
RUN	Green	Module is working properly.
	OFF	Module is not working properly.
MN	OFF	Devices are working in normal state.
	Red	There is minor alarm.
MJ	OFF	Devices are working in normal state.
	Orange	There is major alarm.
CR	OFF	Devices are working in normal state.
	Yellow	There is critical alarm.

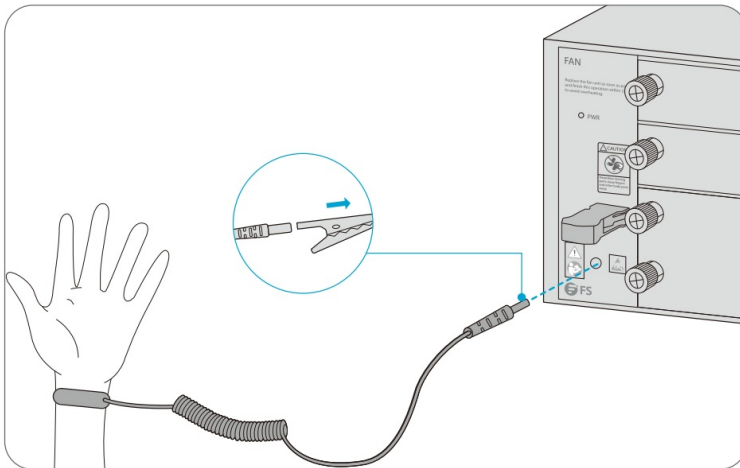


NOTE:

1. CONSOLE1&2 are provided for internal program debugging, which are not available for customers.
2. ACO button on the front panel of NMU module is used to clear MDO alarm.

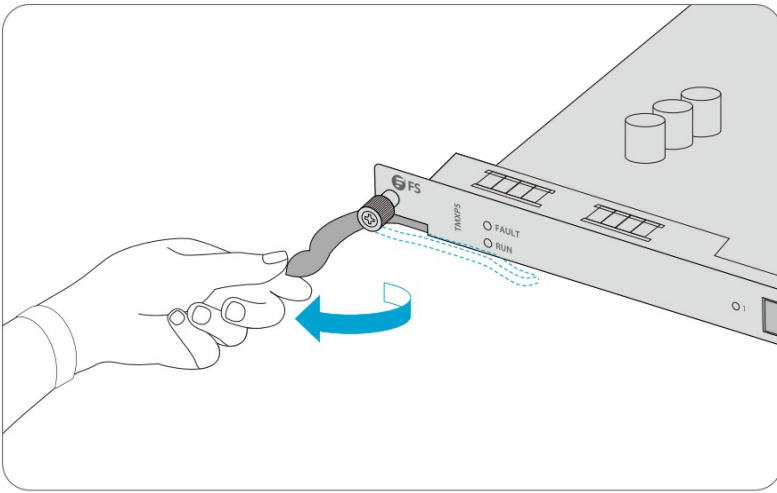
Installing

Wearing ESD Wrist Strap

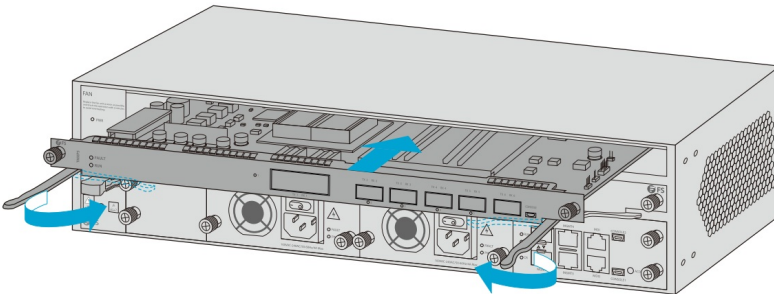


1. Before touching any device or module, wear an ESD wist strap or ESD gloves to protect sensitive. components against electrostatic discharge from the human body.
2. Connect other end of the ESD wrist strap to the PGND point on the chassis.

Installing Business Module

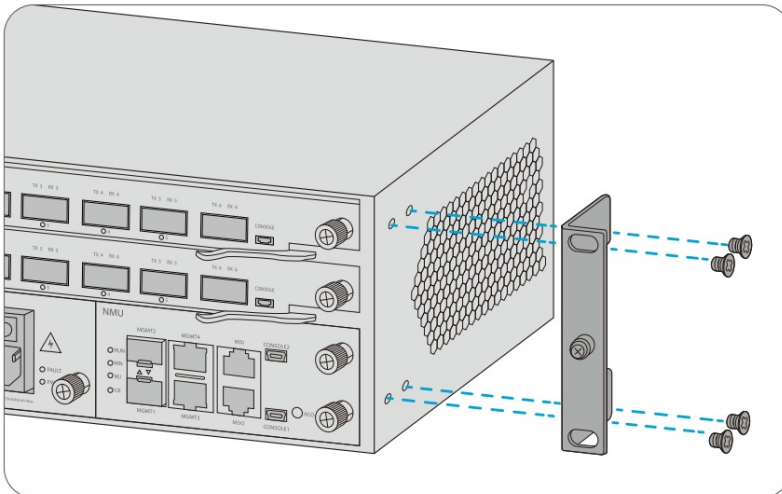


1. Hold the ejector levers on the front panel of the module and raise them.



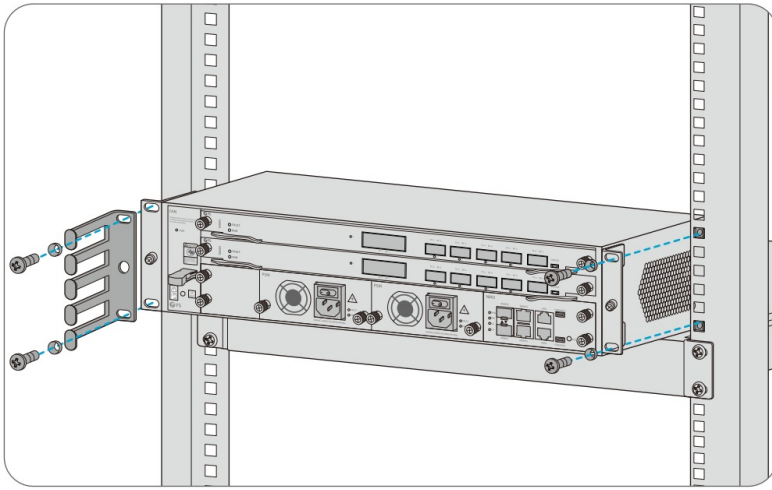
2. Push the module gently along the guide rail until the module cannot go any further. Then lower the two ejector levers of the module.

Installing Mounting Brackets



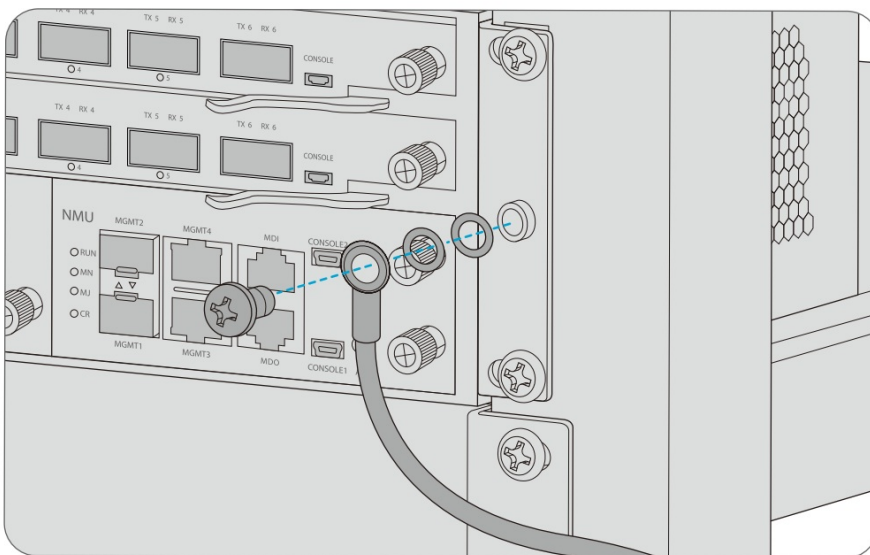
1. Secure the mounting brackets to the two sides of the M6500 series managed chassis with M4 screws.

Rack Mounting



1. Put the M6500 series managed chassis on the shelf in the cabinet.
2. Install and tighten the mounting brackets with 4 sets of M6 screws.
3. Cable manager can be installed together with mounting brackets to the cabinet

Grounding the M6500 Series Managed Chassis

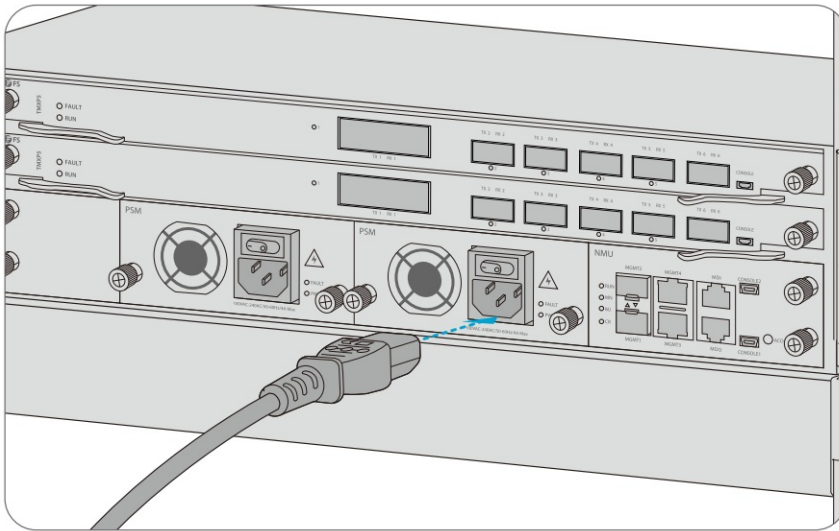


1. Secure the grounding lug to the grounding point on the chassis front panel with the washers and screws.
2. Connect the other end of the cable to a proper earth ground, such as the rack in which M6500 series is mounted.



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

Connecting Power Cord

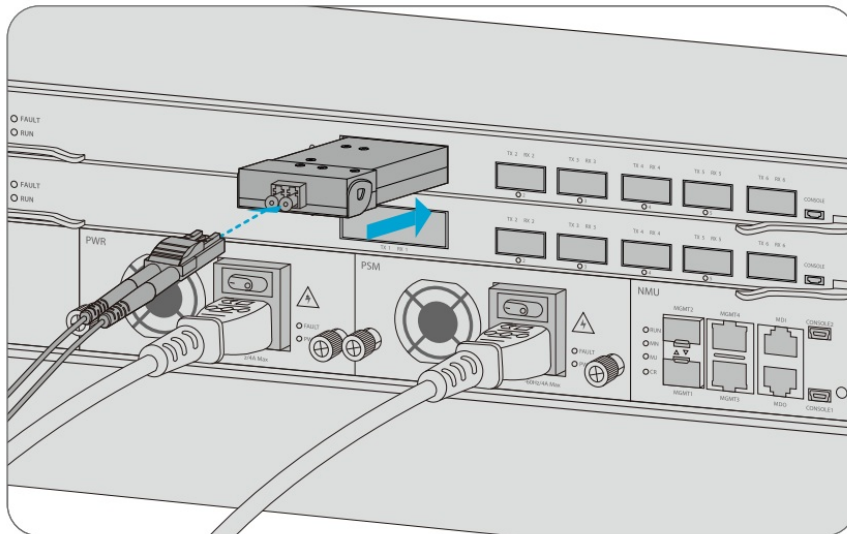


1. Plug AC power cord into the power port on the front panel of AC power module.
2. Connect the other end of the power cord to an AC power source.



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

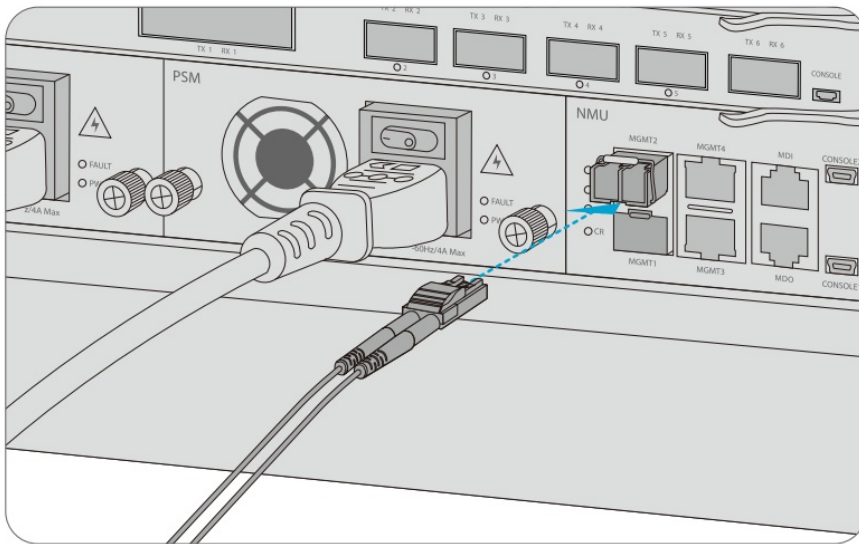
Connecting Coherent CFP Transceiver



1. Plug the CFP transceiver into the CFP slot on Transponder/Muxponder.
2. Connect one end of fiber cable to the CFP transceiver.
3. Connect the other end of the fiber cable to Mux/optical amplifier/CFP transceiver module.

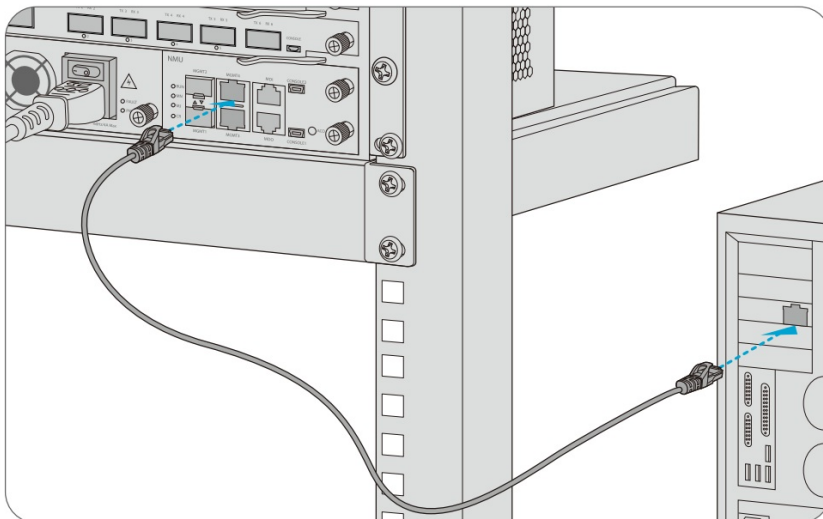
Connecting to the Management Ports

SFP Management Port



1. Plug the compatible SFP/SFP+ transceiver into the SFP+ port on the front of NMU module.
2. Connect a fiber optic cable to the transceiver. Then connect the other end of the cable to another fiber device, such as a switch,

RI4S Management Port



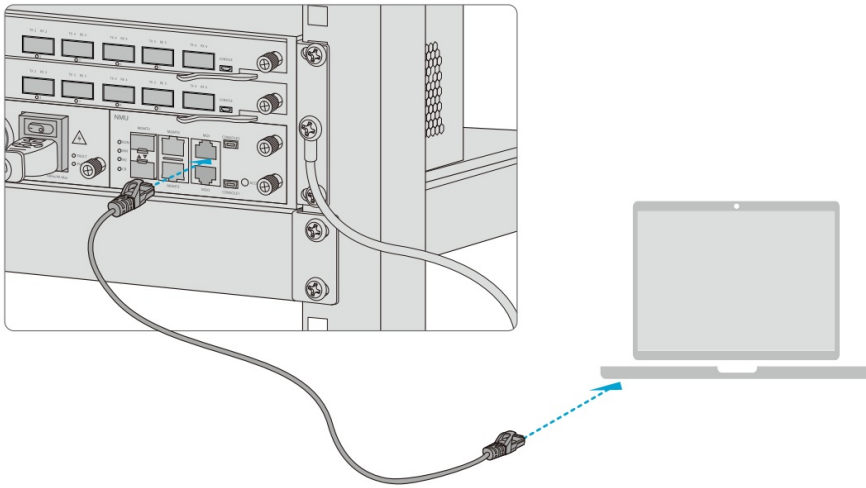
1. Connect one end of the standard RJ4S Ethernet cable to the MGMT18&2 port on the front of NMU module.
2. Connect the other end of cable to a computer.



NOTE:

1. SFP management port is designed for long-haul management more than 100m,
2. RI45 management port s designed for short-haul management less than 100m.
3. You can start your management by selecting one of the above four management ports.

Connecting to the MDI/MDO Alarm Port



1. Connect one end of standard RJ45 Ethernet cable to the MDI/MDO port on the front of NMU module.
2. Connect the other end of the cable to the management device, such as a computer or an intelligent management cabinet.

Configuration The M Series Platform

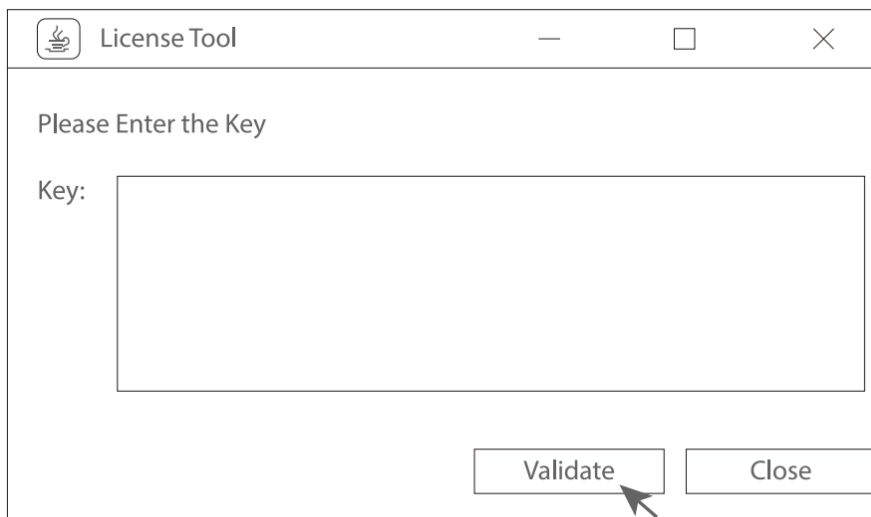
Configuring the M Series Platform Using the Web-based Interface

Step 1: Connect your computer with the network cable to any Ethernet MGMT port of the NMU module.

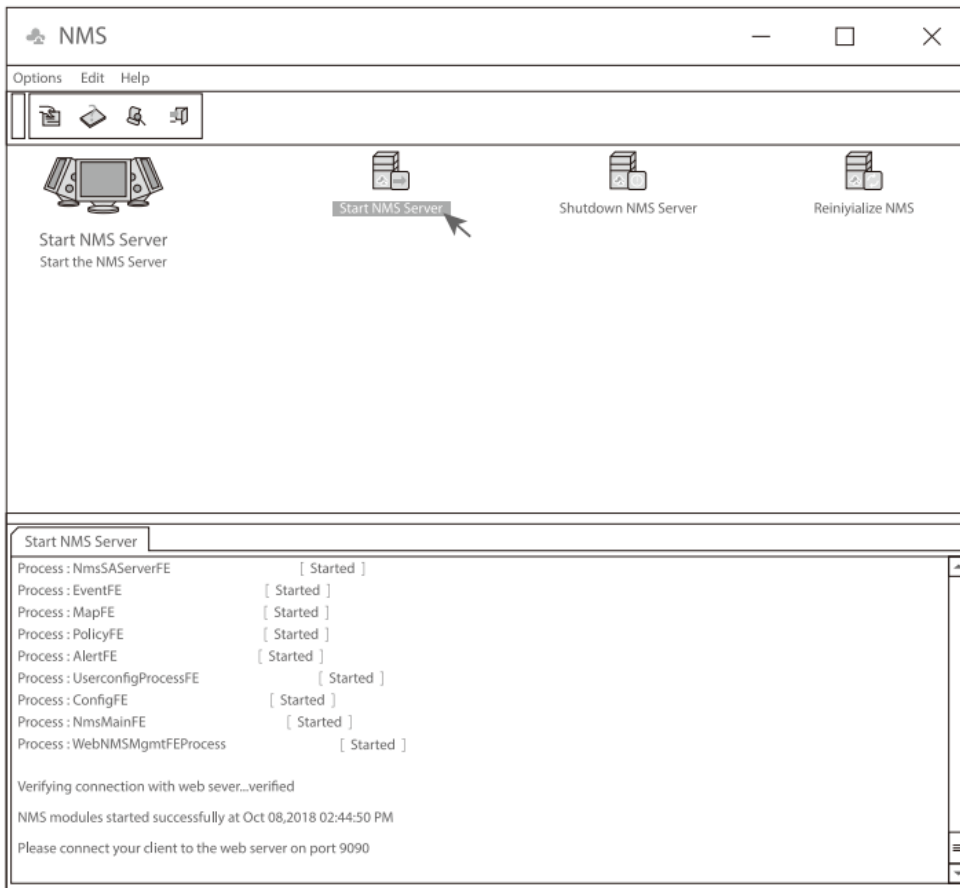
Step 2: Get the NMS software from the USB Flash Drive of chassis accessories or download the file “NMS software” online, and then install it



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

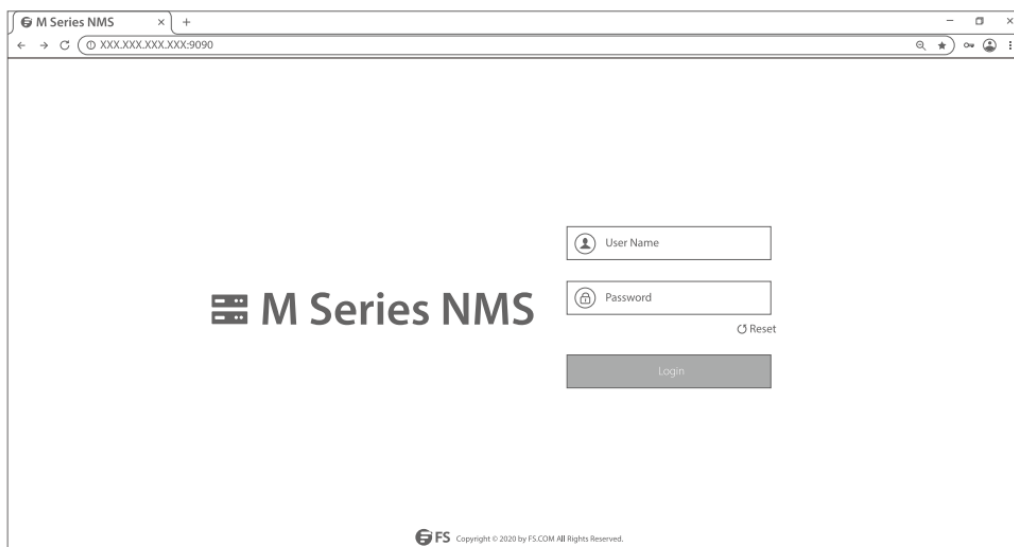


Step 4: Then the NMS server interface pops up. Double click “Start NMS Server” to run the server, when it prompts “Please connect your nt to the web server on port: 9090, it means that you have successfully started the NMS server. And then you can close the NMS Server window, the server i still running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



Step 5: Open a browser window. (Recommend IE11.0 and above version or Google Chrome browser). (1) you log in from local NMS host, enter localhost:9090 in the address bar to open the login interface. (2)If youlog in from other remote host, enter the server IP address XXX XXK XXXXXX:9090 (1P 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 the 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 M Series chassis and the power source.
2. Make sure that all cables are used correctly and comply with the power specifications.
3. Make sure that business modules are in the right position in the M Series chassis

Accessing the Web-based Configuration Page Unsuccessfully

1. Check MGMT ports LED on the NMU module and make sure the Ethernet cable is connected properly.
2. Try another port on the NMU module and make sure the Ethernet cable s suitable and works normally.
3. Power off the M Series chassis. After a while, power it on again. 4.Make sure the IP address of your NMS server is correctly configured. 5. If you stil cannot access the configuration page, please reinitialize NMS server to ts 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>
- HelpCenter https://www.fs.com/service/help_center.html
- ContactUs https://www.s.com/contact_us.html

Product Warranty

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



Warranty: M series enjoy 2 years limited warranty against defect in materials or workmanship. For more details about warranty, please check at <https://wwwfs.com/policies/warranty.html>



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

Compliance Information

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.



Responsible party (only for FCC matter)

FS.COM Inc.

380 Centerpoint Blvd, New Castle, DE 19720, United States

<https://www.fs.com>

Documents / Resources

  <small>M6500 200G OTN PLATFORM 200G 200G OTN PLATFORM PLATFOME OTN M6500 200G Quick Start Guide</small>	<p>FS M6500 200G OTN Platform [pdf] User Guide M6500, 200G OTN Platform, M6500 200G OTN Platform, OTN Platform, Platform</p>
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References

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