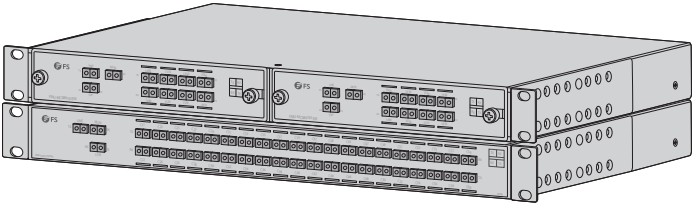


Mux Demux & OADM

MUX DEMUX & OADM

MUX DEMUX & OADM

Quick Start Guide V3.0

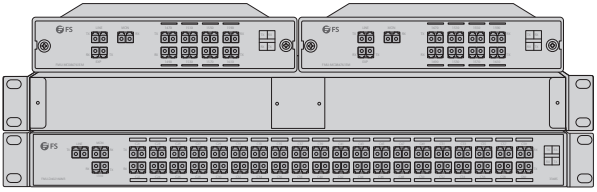
Quick-Start Anleitung

Guide de Démarrage Rapide

Introduction

Thank you for choosing FS FMU Passive Multiplexer Series. This guide is designed to familiarize you with the layout of the Mux Demux & OADM and describes how to deploy the Mux Demux & OADM in your network.

EN



FMU-MC084761EM

FMU-1UFMX-N

FMU-D402160M3

Accessories

Bracket Screws x4

Bracket Nuts x4

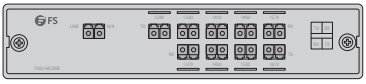
Functional Description

EN

8ch CWDM Mux, DF

1470 RX → TX Line	RX Line → 1470 TX
1490 RX → TX Line	RX Line → 1490 TX
1510 RX → TX Line	RX Line → 1510 TX
1530 RX → TX Line	RX Line → 1530 TX
1550 RX → TX Line	RX Line → 1550 TX
1570 RX → TX Line	RX Line → 1570 TX
1590 RX → TX Line	RX Line → 1590 TX
1610 RX → TX Line	RX Line → 1610 TX
RX EXP → TX Line	
RX Line → TX EXP	

9ch CWDM Mux, SF

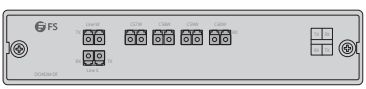


Line → 1270 TX	1290 RX → Line
Line → 1310 TX	1330 RX → Line
Line → 1350 TX	1370 RX → Line
Line → 1390 TX	1410 RX → Line
Line → 1430 TX	1450 RX → Line
Line → 1470 TX	1490 RX → Line
Line → 1510 TX	1530 RX → Line
Line → 1550 TX	1570 RX → Line
Line → 1590 TX	1610 RX → Line

4ch DWDM OADM East and West, DF

RX Line W → TX C57 W	RX Line E → TX C57 E
RX Line W → TX C58 W	RX Line E → TX C58 E
RX Line W → TX C59 W	RX Line E → TX C59 E
RX Line W → TX C60 W	RX Line E → TX C60 E
RX C57 W → TX Line W	RX C57 E → TX Line E
RX C58 W → TX Line W	RX C58 E → TX Line E
RX C59 W → TX Line W	RX C59 E → TX Line E
RX C60 W → TX Line W	RX C60 E → TX Line E
RX Line W → TX Line E (Other than C57-C60)	
RX Line E → TX Line W (Other than C57-C60)	
Remark: The TX of the channel port is drop, and RX is add.	

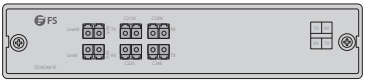
4ch DWDM OADM East or West, DF



RX Line W → TX C57 W	RX C57 W → TX Line W
RX Line W → TX C58 W	RX C58 W → TX Line W
RX Line W → TX C59 W	RX C59 W → TX Line W
RX Line W → TX C60 W	RX C60 W → TX Line W
RX Line W → TX Line E (Other than C57-C60)	
RX Line E → TX Line W (Other than C57-C60)	
Remark: The TX of the channel port is drop, and RX is add.	

EN

2ch DWDM OADM East and West, SF



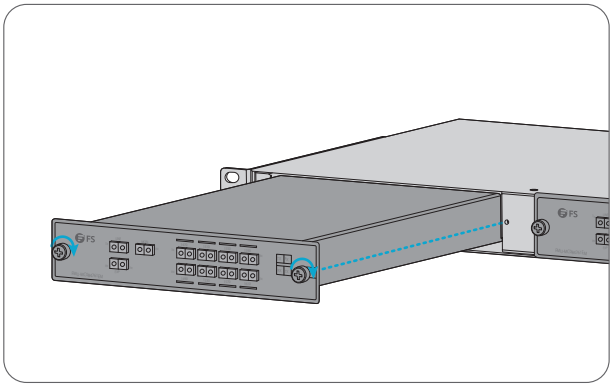
Line W → TX C22 W	Line E → TX C21 W
Line W → TX C24 W	Line E → TX C23 W
RX C21 W → Line W	RX C22 E → Line E
RX C23 W → Line W	RX C24 E → Line E
Line W↔Line E (Other than C21-C24)	
Remark: The TX of the channel port is drop, and RX is add.	

2ch DWDM OADM East or West, SF

Line W → TX C22 W	RX C21 W → Line W
Line W → TX C24 W	RX C23 W → Line W
Line W↔Line E (Other than C21-C24)	
Remark: The TX of the channel port is drop, and RX is add.	

Installing

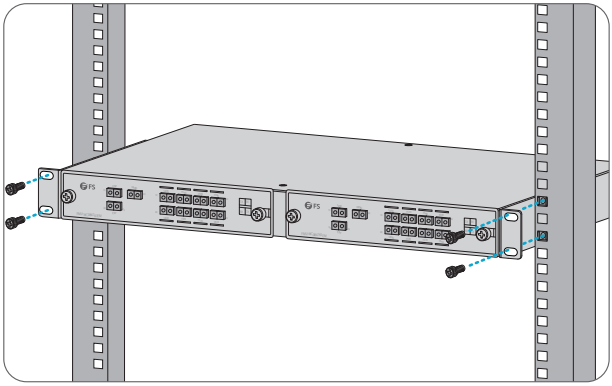
FMU Plug-in Module



Inserting MUX Demux modules in a 1U 2-slot chassis

1. Align the module with the chassis shelf.
2. Gently push the module into the shelf cavity.
3. Press on the M3 captive screws first and then tighten it on each side.

NOTE: Put the top surface of FMU module close to the cover of chassis for easy installation.

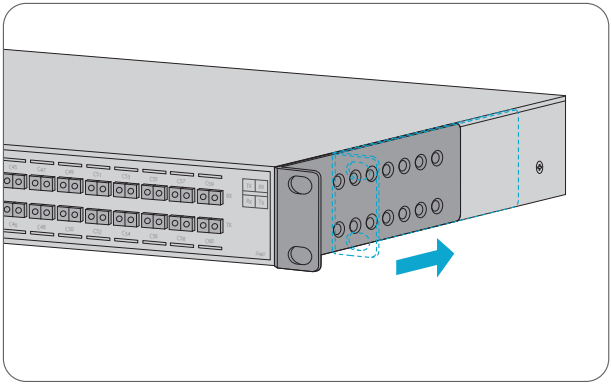


Mounting the equipment in a rack

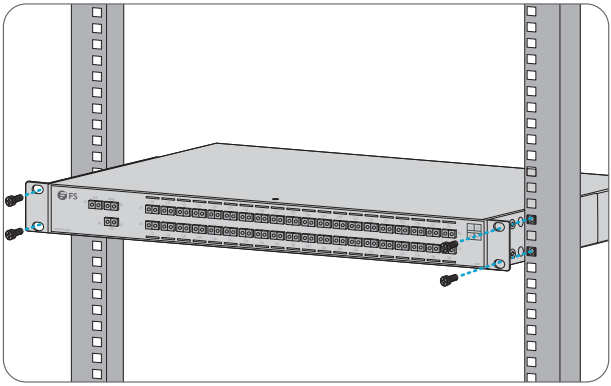
1. Place the track mounting bracket on the desired position.

2. Put the enclosure that inserted the Mux Demux on the rack.
3. Use M6x12mm screws and M6 nuts to secure.

1U Rack Mount



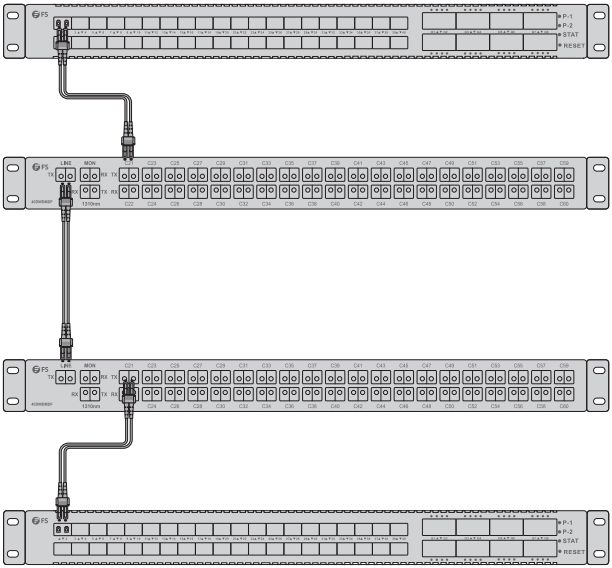
NOTE: Flexible mounting bracket can be adjusted to 19" or 23" rack for easy installation.



Mounting the equipment in a rack

1. Place the track mounting bracket on the desired position.
2. Put the enclosure that inserted the Mux Demux on the rack.
3. Use M6x12mm screws and M6 nuts to secure.

Installing Fiber Cables



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.

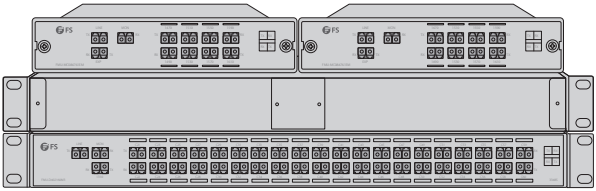
EN

Warranty: All FMU passive multiplexer series enjoy 1 year or 3 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

Einführung

Vielen Dank, dass Sie sich für die FS FMU Passiv-Multiplexer-Serie entschieden haben. Diese Anleitung soll Sie mit dem Aufbau des Mux Demux & OADM vertraut machen und beschreibt, wie Sie den Mux Demux & OADM in Ihrem Netzwerk einsetzen.



Zubehör

Schrauben x4

Muttern x4

Funktionsbeschreibung

8CH CWDM Mux, DF

1470 RX → TX Line	RX Line → 1470 TX
1490 RX → TX Line	RX Line → 1490 TX
1510 RX → TX Line	RX Line → 1510 TX
1530 RX → TX Line	RX Line → 1530 TX
1550 RX → TX Line	RX Line → 1550 TX
1570 RX → TX Line	RX Line → 1570 TX
1590 RX → TX Line	RX Line → 1590 TX
1610 RX → TX Line	RX Line → 1610 TX
RX EXP → TX Line	
RX Line → TX EXP	

9ch CWDM Mux, SF

Line → 1270 TX	1290 RX → Line
Line → 1310 TX	1330 RX → Line
Line → 1350 TX	1370 RX → Line
Line → 1390 TX	1410 RX → Line
Line → 1430 TX	1450 RX → Line
Line → 1470 TX	1490 RX → Line
Line → 1510 TX	1530 RX → Line
Line → 1550 TX	1570 RX → Line
Line → 1590 TX	1610 RX → Line

4ch DWDM OADM East and West, DF

RX Line W → TX C57 W	RX Line E → TX C57 E
RX Line W → TX C58 W	RX Line E → TX C58 E
RX Line W → TX C59 W	RX Line E → TX C59 E
RX Line W → TX C60 W	RX Line E → TX C60 E
RX C57 W → TX Line W	RX C57 E → TX Line E
RX C58 W → TX Line W	RX C58 E → TX Line E
RX C59 W → TX Line W	RX C59 E → TX Line E
RX C60 W → TX Line W	RX C60 E → TX Line E
RX Line W → TX Line E (Andere als C57-C60)	
RX Line E → TX Line W (Andere als C57-C60)	
Bemerkung: Der TX des Kanalports ist Drop, und RX ist Add.	

4ch DWDM OADM East or West, DF

RX Line W → TX C57 W	RX C57 W → TX Line W
RX Line W → TX C58 W	RX C58 W → TX Line W
RX Line W → TX C59 W	RX C59 W → TX Line W
RX Line W → TX C60 W	RX C60 W → TX Line W
RX Line W → TX Line E (Andere als C57-C60)	
RX Line E → TX Line W (Andere als C57-C60)	
Bemerkung: Der TX des Kanalports ist Drop, und RX ist Add.	

2ch DWDM OADM East and West, SF

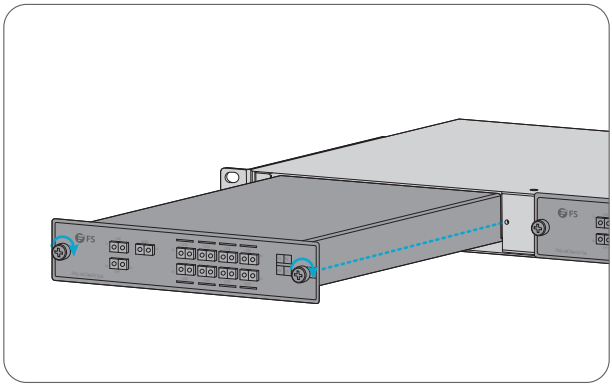
Line W → TX C22 W	Line E → TX C21 W
Line W → TX C24 W	Line E → TX C23 W
RX C21 W → Line W	RX C22 E → Line E
RX C23 W → Line W	RX C24 E → Line E
Line W↔Line E (Andere als C21-C24)	
Bemerkung: Der TX des Kanalports ist Drop, und RX ist Add.	

2ch DWDM OADM East or West, SF

Line W → TX C22 W	RX C21 W → Line W
Line W → TX C24 W	RX C23 W → Line W
Line W↔Line E (Andere als C21-C24)	
Bemerkung: Der TX des Kanalports ist Drop, und RX ist Add.	

Installation

FMU Plug-in Module

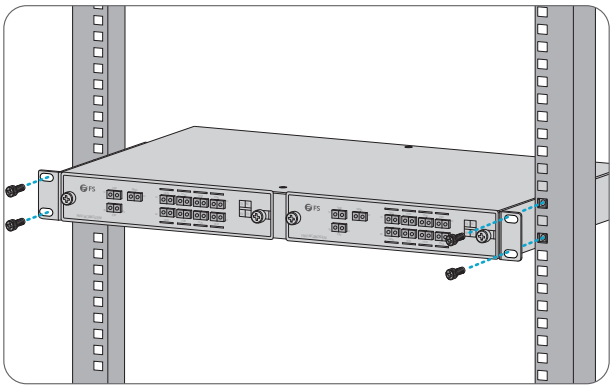


DE

Montage in einem 1HE-2-Slot-Gehäuse

1. Richten Sie das Modul an der Chassisablage aus.
2. Schieben Sie das Modul vorsichtig in die Vertiefung des Einlegebodens.
3. Drücken Sie zuerst die unverlierbaren M3-Schrauben an und ziehen Sie sie dann auf jeder Seite fest.

HINWEIS: Legen Sie die Oberseite des FMU-Moduls nahe an die Abdeckung des Chassis, um die Installation zu erleichtern.

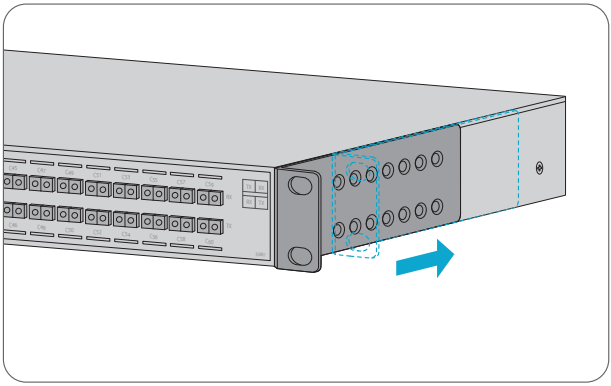


Montage des Geräts in einem Rack

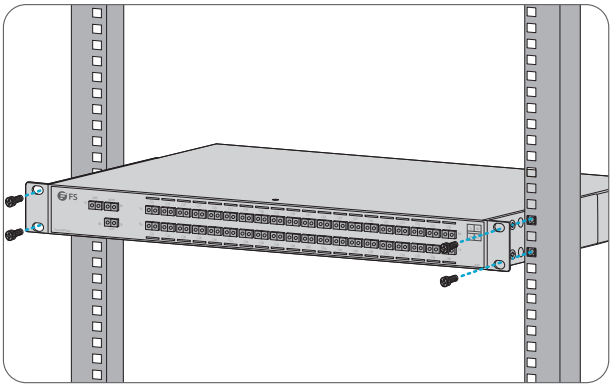
1. Setzen Sie die Schienenhalterung an der gewünschten Position auf.

2. Setzen Sie das Gehäuse, in das der Mux Demux eingesetzt wurde, auf das Rack.
3. Verwenden Sie M6x12-mm-Schrauben und M6-Muttern zur Befestigung.

1HE-Rackmontage



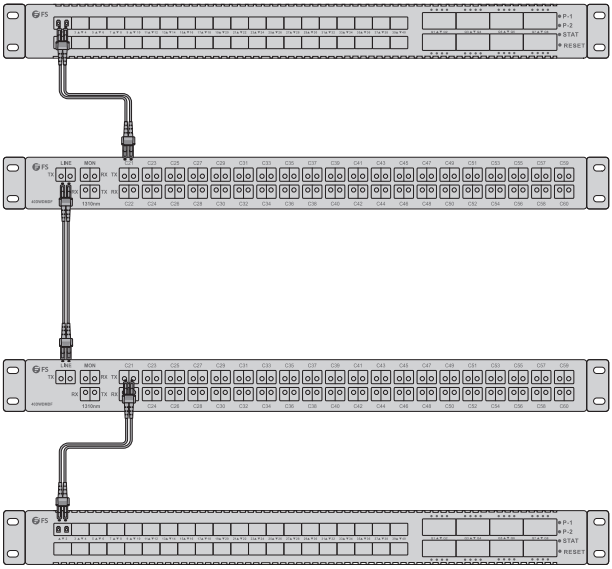
HINWEIS: Die flexible Montagehalterung kann für eine einfache Installation an ein 19"- oder 23"-Rack angepasst werden.



Montage des Geräts in einem Rack

1. Setzen Sie die Schienenhalterung an der gewünschten Position auf.
2. Setzen Sie das Gehäuse, in das der Mux Demux eingesetzt wurde, auf das Rack.
3. Verwenden Sie M6x12mm-Schrauben und M6-Muttern zur Befestigung.

Installation der Glasfaserkabel



Internetquellen

- Download https://www.fs.com/de/download.html
- Hilfecenter https://www.fs.com/de/service/fs_support.html
- Kontakt https://www.fs.com/de/contact_us.html

Produktgarantie

Wir garantieren unseren Kunden, dass wir bei Schäden oder fehlerhaften Artikeln, die auf unsere Verarbeitung zurückzuführen sind, eine kostenlose Rückgabe innerhalb von 30 Tagen nach Erhalt der Ware gewähren. Dies gilt nicht für Sonderanfertigungen oder maßgeschneiderte Lösungen.

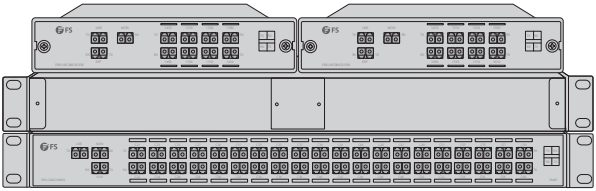
DE

Garantie: Für alle FMU Passiv-Multiplexer gilt eine eingeschränkte Garantie von 1 bis 3 Jahren auf Material- und Verarbeitungsfehler. Weitere Informationen zur Garantie finden Sie unter: https://www.fs.com/de/policies/warranty.html

Rückgabe: Wenn Sie Artikel zurücksenden möchten, finden Sie Informationen unter: https://www.fs.com/de/policies/day_return_policy.html

Introduction

Merci d'avoir choisi la Série de Multiplexeurs Passifs FS FMU. Ce guide est conçu pour vous familiariser avec la configuration du Mux Demux & OADM et décrit comment procéder à son déploiement dans votre réseau.



FMU-MC084761EM

FMU-1UFMX-N

FMU-D402160M3

FR

Accessoires

Vis de Support x4

Écrous de Support x4

Description Opérationnelle

Mux CWDM 8ch, DF

1470 RX → TX Line	RX Line → 1470 TX
1490 RX → TX Line	RX Line → 1490 TX
1510 RX → TX Line	RX Line → 1510 TX
1530 RX → TX Line	RX Line → 1530 TX
1550 RX → TX Line	RX Line → 1550 TX
1570 RX → TX Line	RX Line → 1570 TX
1590 RX → TX Line	RX Line → 1590 TX
1610 RX → TX Line	RX Line → 1610 TX
RX EXP → TX Line	
RX Line → TX EXP	

Mux CWDM 9ch, SF

Line → 1270 TX	1290 RX → Line
Line → 1310 TX	1330 RX → Line
Line → 1350 TX	1370 RX → Line
Line → 1390 TX	1410 RX → Line
Line → 1430 TX	1450 RX → Line
Line → 1470 TX	1490 RX → Line
Line → 1510 TX	1530 RX → Line
Line → 1550 TX	1570 RX → Line
Line → 1590 TX	1610 RX → Line

DWDM OADM 4ch Eest et Ouest, DF

RX Line W → TX C57 W	RX Line E → TX C57 E
RX Line W → TX C58 W	RX Line E → TX C58 E
RX Line W → TX C59 W	RX Line E → TX C59 E
RX Line W → TX C60 W	RX Line E → TX C60 E
RX C57 W → TX Line W	RX C57 E → TX Line E
RX C58 W → TX Line W	RX C58 E → TX Line E
RX C59 W → TX Line W	RX C59 E → TX Line E
RX C60 W → TX Line W	RX C60 E → TX Line E
RX Line W → TX Line E (Autres que C57-C60)	
RX Line E → TX Line W (Autres que C57-C60)	
Remarque : Le TX du port de canal est supprimé et le RX est ajouté.	

DWDM OADM 4ch Est ou Ouest, DF

RX Line W → TX C57 W	RX C57 W → TX Line W
RX Line W → TX C58 W	RX C58 W → TX Line W
RX Line W → TX C59 W	RX C59 W → TX Line W
RX Line W → TX C60 W	RX C60 W → TX Line W
RX Line W → TX Line E (Autres que C57-C60)	
RX Line E → TX Line W (Autres que C57-C60)	
Remarque : Le TX du port de canal est supprimé et le RX est ajouté.	

FR

DWDM OADM 2ch Est et Ouest, SF

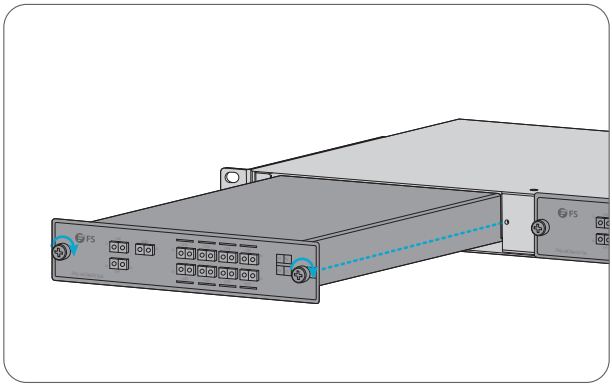
Line W → TX C22 W	Line E → TX C21 W
Line W → TX C24 W	Line E → TX C23 W
RX C21 W → Line W	RX C22 E → Line E
RX C23 W → Line W	RX C24 E → Line E
Line W↔Line E (Autres que C21-C24)	
Remarque : Le TX du port de canal est supprimé et le RX est ajouté.	

DWDM OADM 2ch Est ou Ouest, SF

Line W → TX C22 W	RX C21 W → Line W
Line W → TX C24 W	RX C23 W → Line W
Line W↔Line E (Autres que C21-C24)	
Remarque : Le TX du port de canal est supprimé et le RX est ajouté.	

Installation

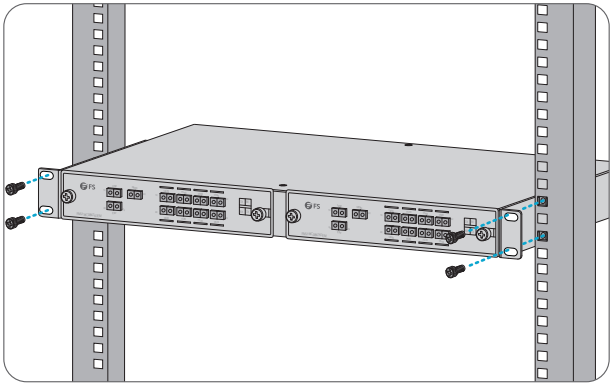
FMU Module Plug-in



Insertion de modules MUX Demux dans un châssis 1U à 2 emplacements

1. Alignez le module avec l'étagère du châssis.
2. Introduisez délicatement le module dans la cavité de l'étagère.
3. Appliquez d'abord les vis captives M3, puis serrez-les de chaque côté.

REMARQUE: Pour faciliter l'installation, placez la surface supérieure du module FMU près du couvercle du châssis.

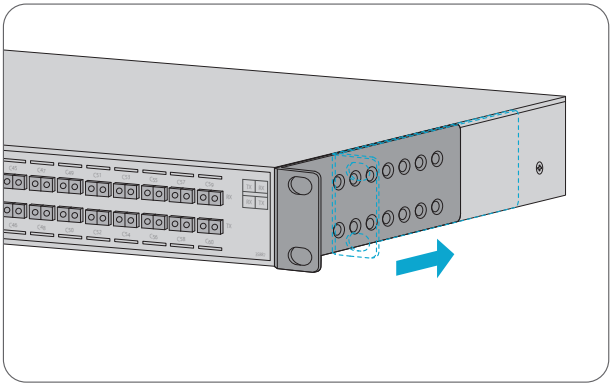


Montage de l'équipement dans un rack

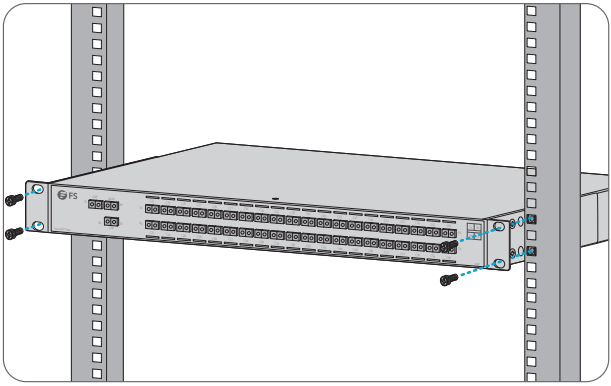
1. Placez le support de montage du rail à l'emplacement souhaité.

2. Placez le boîtier contenant le Mux Demux dans le rack.
3. Utilisez des vis M6 x 12mm et des écrous M6 pour fixer les éléments.

Montage en Rack 1U



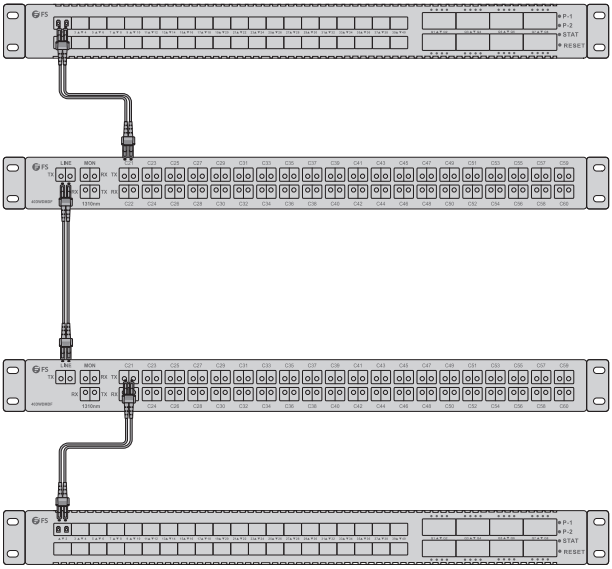
REMARQUE: Le support de montage flexible peut être ajusté à un rack de 19 ou 23 pouces pour faciliter l'installation.



Montage de l'équipement dans un rack

1. Placez le support de montage du rail à l'emplacement souhaité.
2. Placez le boîtier contenant le Mux Demux dans le rack.
3. Utilisez des vis M6 x 12mm et des écrous M6 pour fixer les éléments.

Installation de Câbles en Fibre Optique



Informations en Ligne

- Télécharger https://www.fs.com/fr/download.html
- Centre d'Assistance https://www.fs.com/fr/service/fs_support.html
- Contactez-Nous https://www.fs.com/fr/contact_us.html

Garantie du Produit

FS garantit à ses clients que tout article endommagé ou défectueux dû à sa fabrication sera retourné gratuitement dans les 30 jours suivant la réception de la marchandise. Cela exclut les articles fabriqués sur mesure ou les solutions personnalisées.

FR

Garantie : Toute la gamme de multiplexeurs passifs FMU bénéficie d'une garantie limitée de 1 an ou 3 ans contre tout défaut matériel ou de fabrication. Pour plus de détails sur la garantie, veuillez consulter le site https://www.fs.com/fr/policies/warranty.html

Retour : Si vous souhaitez retourner un ou plusieurs articles, vous trouverez des informations sur la procédure de retour sur le site suivant https://www.fs.com/fr/policies/day_return_policy.html

Compliance Information

FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

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

CE

FS.COM GmbH hereby declares that this device is in compliance with the Directive 2014/30/EU. A copy of the EU Declaration of Conformity is available at www.fs.com/company/quality_control.html

Die FS.COM GmbH erklärt hiermit, dass dieses Gerät mit der Richtlinie 2014/30/EU konform ist. Eine Kopie der EU-Konformitätserklärung finden Sie unter www.fs.com/de/company/quality_control.html

FS.COM GmbH déclare par la présente que cet appareil est conforme à la Directive 2014/30/UE. Une copie de la Déclaration UE de Conformité est disponible sur https://www.fs.com/fr/company/quality_control.html

FS.COM LIMITED
24F, Infore Center, No.19, Haitian 2nd Rd, Binhai Community, Yuehai Street,Nanshan District, Shenzhen City

FS.COM GmbH
NOVA Gewerbepark Building 7, Am Gfild 7, 85375 Neufahrn bei Munich, Germany

Q.C. PASSED

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