



## FS-BOX-V3 Firmware Upgrade Tool Kit User Guide

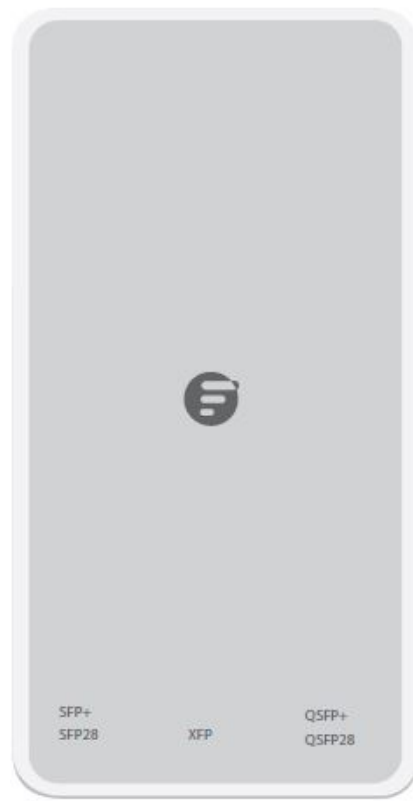
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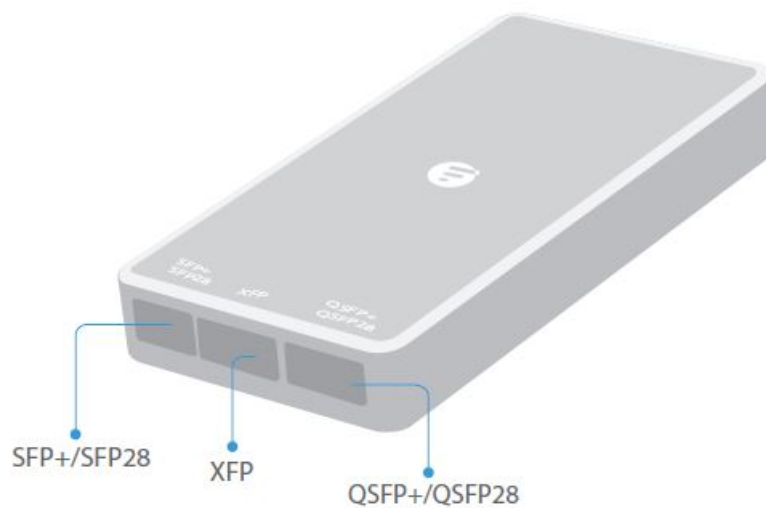


**FS-BOX-V3 Firmware Upgrade Tool Kit**



## Introduction

FS Box V3 only works with FS transceivers & DAC/AOC cables. It is designed to solve real-time compatibility needs, wavelength tuning for tunable transceiver and upgrade the transceiver firmware in data center. With its instant online platform [fsbox.com](https://fsbox.com) and a wide range of configuration choices, FS Box V3 could help engineers configure in a timely and effective way.



## Supported Transceiver Type



SFP+/SFP28



XFP



QSFP+/QSFP28

## Operation Instructions

### Login Operation

**Step 1:** Go to fsbox.com.

**Step 2:** Log in with your FS account.

# Sign in

Email address

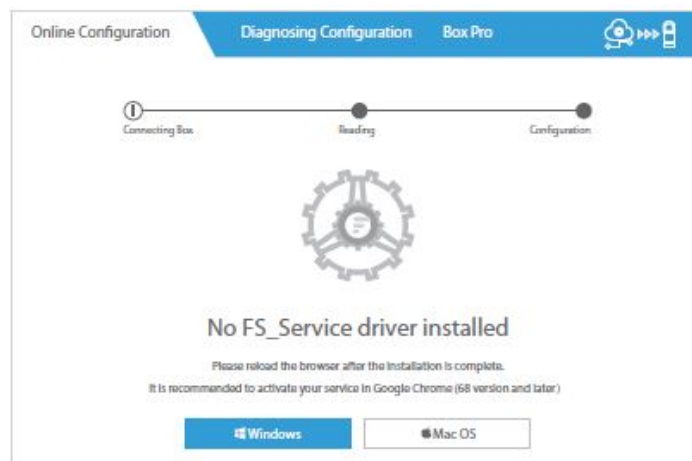
Passwords 12-1

Forgot password

Login

Create an account >

**Step 3:** Download and install the driver.



You can download the driver on the home page or after signing in.  
If you don't have an account, click Create an account to create one.

**It is recommended to activate your service in Google Chrome (68 version and later)**

### Install MacOS Driver

**Step 1:** After downloading the driver, double-click the driver file FSInstall\_Mac\_Beta.dmg.

**Step 2:** Long click the FS Box and drag to the Application folder.



**Step 3:** Find the FS Box application on the Launchpad, then double-click it and a system pop-up prompt will appear, click Open.

**Step 4:** Status displays in green means that the driver is successfully installed and activated normally.



### Install Windows driver

**Step 1:** After downloading the driver, double-click the driver file FSInstaller for installation.

**Step 2:** FS service will be automatically activated when the driver is installed, and you can check the FS logo in the notification bar.

If FS service is not automatically activated, just reload the browser.

### Online Configuration Service

If you only need to reconfigure the compatibility of optics, please operate as follow.



**Step 1:** Connect FS Box to your computer and insert your transceiver into corresponding port of FS Box. After successful insertion, the indicator of FS Box will be blinking.



**Step 2:** Choose the compatible brand and click Start Configuration.

Brand Juniper	S/N F123456793	P/N QSFP28-LR4-100G
------------------	-------------------	------------------------

P/N\*

QSFP28-LR4-100G

Brand\*

Please choose

Cisco	Juniper	Arista	H3C
DELL (Force 10)	Brocade	Intel	IBM
Huawei	Netgear	Extreme	Alcatel-Lucent
Generic	Mellanox		

If you need to change more brands for compatibility, please go to 'Box Pro' for custom application

Revise S/N ? ☒ Yes ☐ No

Serial number

Please filling

Batch Configuration ? ☐

**Start Configuration**

## Start Configuration

Some special brands or special transceiver types do not support revise serial number in Online Configuration, and the Yes and No buttons can not be clicked. In this case, you need to apply in Box Pro.

If you need to reconfigure multiple transceivers to same compatible brand, you can turn on the Batch Configuration button, then follow the the prompts to insert and remove the transceivers one by one. And if you want to stop batch configuration, turn off the button after configuration succeeds.

**Step 3:** Configuration succeeds, then pull out the transceiver.



## Wavelength Tuning

If you need to configure channels for tunable transceivers, please operate as follow.

**Step 1:** Connect FS Box to your computer and insert your tunable transceiver into the corresponding port of FS Box. The platform can quickly identify it. Then choose the P/N of the transceiver, and click the edit icon under the wavelength.



**Step 2:** Choose the wavelength and click Apply.



**Step 3:** You can check the updated wavelength and status after configuration succeeds.

### Changing wavelength

Wavelength:  
CH19.5 (1561.83nm)

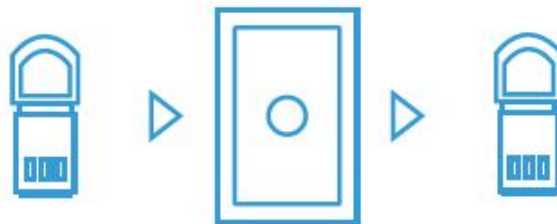
Tunable wavelength:  
Please choose

✓ Changed

Apply

## Diagnosing Configuration Service

If you need to solve compatibility issues with your problematic optics after the sale, please operate as follow.



**Step 1:** Connect FS Box to your computer and insert an identical transceiver that works well into the corresponding port of FS Box.



**Step 2:** Choose the compatible brand of the identical transceiver, and fill in the device model number which the transceiver will be used, then click Start Diagnosing.

Brand Juniper	S/N A1930005081	P/N QSFP-IR4-40G
------------------	--------------------	---------------------

[ Available FS Transceiver Information ]

P/N\*  
QSFP-IR4-40G

Compatible Brand\*  
Juniper

S/N\*  
A1930005081

More Information ?

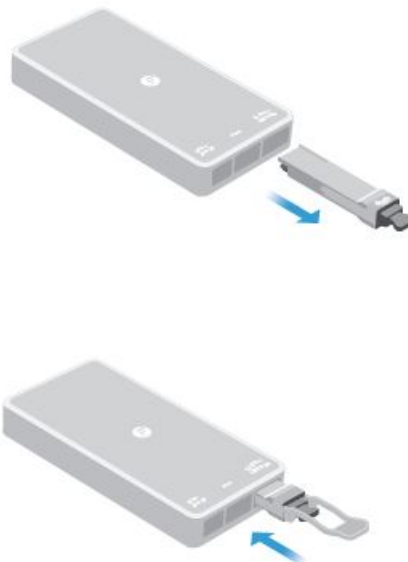
Device Model Number  
JU EX4300-48P

Remark  
Please filling

Save the information to my Configuration

**Start Diagnosing**

**Step 3:** Remove the identical transceiver and insert your problematic FS transceiver after diagnosing succeeds.



**Step 4:** Click Start Matching after the transceiver is replaced.

Brand Juniper	S/N Y203000429	P/N QSFP-IR4-40G
------------------	-------------------	---------------------

[ Available FS Transceiver Information ]

[ Problematic FS Transceiver Information ]

P/N\*  
QSFP-IR4-40G

Revise S/N ? ☐ Yes ☒ No

Batch Matching ?

**Start Matching**

**Step 5:** Matching succeeds, then pull out the transceiver.





## Box Pro Service

If you need to reconfigure part number of your optics or need to custom compatibility, please operate as follow.



## Application Steps

**Step 1:** Enter Box Pro service and click Request Configuration. Transceiver information ?

Transceiver information ⓘ
+

Available Configuration

Batch Configuration ⓘ Request Configuration
S/N ▼ Please filling

Step 2: Locate the order in which the optics you need to reconfigure. Then choose the optics and click Apply.

My Orders My Applications ← return

Apply
Order NO ▼ Please filling Order NO

Order No/Date: FS200907001174 / 2020-09-07 00:29:27 ▼

<input type="checkbox"/> Product ID	Description	P/N	Qty	Brand	Vendor Name	Action
<input type="checkbox"/> 36157	Cisco QSFP-40G-SR4 Compatible 40GBASE-SR4 QSFP+ 850nm 150m MTP/MPO DOM Transceiver Module	QSFP-SR4-40G	1	---		Details

Order No/Date: FS200906001169 / 2020-09-06 23:34:23 ▼

Total 4 items 1 10/page Go to Page

**Step 3:** Fill the configuration details you need to custom and click Submit.

! You will receive the auditing result of your application in 1 to 3 business days.

Apply

← return

#### Application Information

Description: Cisco QSFP-40G-SR4 Compatible 80Gbps SR4 QSFP+ 80nm 150m MTP/MPO DOM Transceiver Module

Product ID: #36157 P/N: QSFP-SR4-40G Qty: 1

Wavelength: Max Cable Distance: Interface:

#### Configuration Details

Compatible brands*	Vendor Name*	P/N*	S/N*	Qty*	Switch Information (P/N, OS, Version)	Action
Juniper	FS	QSFP-SR4-40G	120200010001	1	Please filling	

#### Application Note

Please Input

Submit

! If you need more than one configuration brand for your optics, you could add more but less than three at a time.

If you need more than one configuration brand for your optics, you could add more but less than three at a time.

**Step 4:** Check application status and configuration details in My Applications.

My Orders

My Applications

← return

Please filling Order No



#	Order No	Application No	Application Note	Application/Audit Date	Status	Action
1	FS200907001174	W1597223550548	no note	[Application Date] 2020-09-07 12:32:43	Unaudited	Details Cancel

## Configuration Steps

**Step 1:** Connect FS Box to your computer and insert corresponding transceiver into corresponding port.

**Step 2:** Locate the application which is approved and click Configuration.

## Available Configuration

Batch Configuration ? Request Configuration S/N Please filling

Application No/Date: W1597223550548 / 2020-09-07 12:32:43 Order No: FS200907001174

Product ID	P/N	Brand	Vendor Name	Attribute	New S/N	Application Note	Action
#36157	QSFP-SR4-40G	Juniper	FS	850nm	P0001234567890	this is application note	Configuration

**Step 3:** After configuration succeeds, you can check the updated information in the reading column. Then pull out the transceiver.

## Batch Configuration Steps

a. If you need to configure the same type configurations in large amounts, please operate as follow.

**Step 1:** Connect FS Box to your computer and insert corresponding transceiver into corresponding port.

**Step 2:** Select the application which is approved and click Batch Configuration.

## Transceiver information ?

**Step 3:** Click Start Configuration, then insert and remove your transceivers one by one.  
Transceiver information

Transceiver information ?

Available Configuration

Batch Configuration ? Request Configuration

S/N Please filling

Application No/Date: W1600159540653 / 2020-09-15 08:49:58 Order No: FS200906001169

Product ID	P/N	Brand	Vendor Name	Attribute	New S/N	Application Note	Action
✓ #31238	SFP-10GSR-85	Cisco	FS	850nm	PO001234567892	this is application note	Configuration
✓ #31287	SFP-10GSR-85	Juniper	FS	850nm	PO001234567893	this is application note	Configuration

Step 3: Click Start Configuration, and the system will continue to configure according to the selected order. You just need to insert and remove your transceivers.

Transceiver Information

Connecting Box Reading Configuration

Brand S/N P/N

PO001234567892 SFP-10GSR-85

No	P/N	Brand	New S/N	Status
1/2	SFP-10GSR-85	Cisco	PO001234567892	Waiting
2/2	SFP-10GSR-85	Juniper	PO001234567893	Waiting

Start Batch Configuration

If you want to stop the batch configuration, just click Stop Batch Configuration after configuration succeeds.  
If you need to configure multiple types of configurations, please operate as follow.

**Step 1:** Connect FS Box to your computer and insert corresponding transceiver into corresponding port.

**Step 2:** Select the applications which are approved and click Batch Configuration.

## Transceiver information ?

Available Configuration

Batch Configuration ? Request Configuration

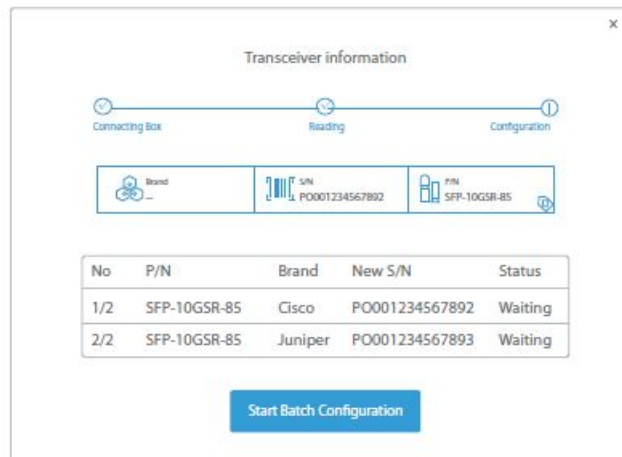
S/N Please filling

Application No/Date: W1600159540653 / 2020-09-15 08:49:58 Order No: FS200906001169

Product ID	P/N	Brand	Vendor Name	Attribute	New S/N	Application Note	Action
✓ #31238	SFP-10GSR-85	Cisco	FS	850nm	PO001234567892	this is application note	Configuration
✓ #31287	SFP-10GSR-85	Juniper	FS	850nm	PO001234567893	this is application note	Configuration

**Step 3:** Click Start Configuration, and the system will continue to configure according to the selected order. You just need to insert and remove your transceivers.

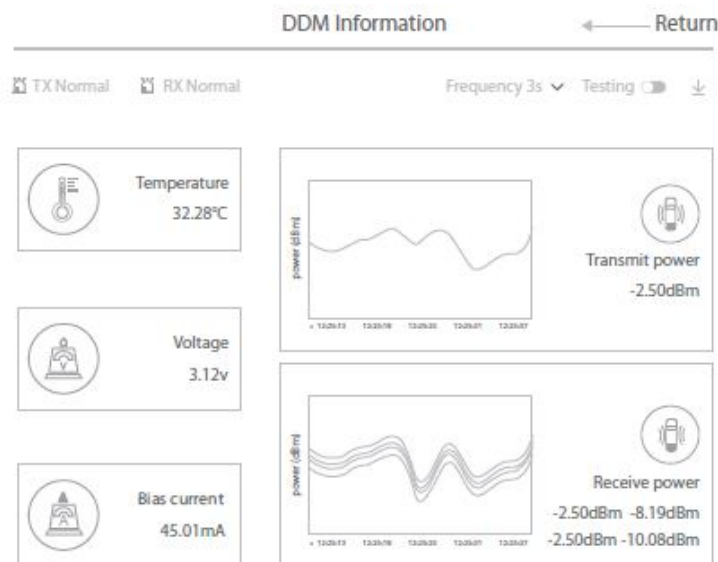
## Transceiver information



## DDM Information



Connect FS Box and insert your transceiver, and then you can click “DDM Information” in the top right corner of the page to check the status of the transceiver.

It will show voltage, temperature and bias-current values in combination with time based continuous chart for transmit and receive levels.



## Indicator Light Status

Indication	Status
FS Box Connected to PC	Breathing White Light
Reading Succeed	White Light Blinking
Reading Failed	Red Light On
Configuration Succeed	Blue Light Blinking
Configuration Failed	Red Light On

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