



FS-BOX-V3 FIRMWARE UPGRADE TOOL KIT Quick Start Guide V3.0



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 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



<1> Login Operation

Step 1: Go to fsbox.com.

Step 2: Log in with your FS account.

Email address Passwords Forgot passwo		Sign in	
Email address Passwords Forgot passwo Login		J	
Email address Passwords Forgot passwo Login			
Passwords Forgot passwo Login	mail address		
Forgot passwo Login	asswords		77
Login			Forgot password
Login			
		Login	
Create an account >		Create an account	>

Step 3: Download and install the driver.



 $[\downarrow]$ 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.

FS Box	
G FS FS	Box
Status	•
Driver Version	V1.0.0.0 (Beta)
Program Version	V1.0.0

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.

<2> 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 OD Juniper	5/N F12345679	3	QSFP28-LR4-100G
P/N*			
QSFP28-LR4-100G			~
Brand*			
Please choose			^
Cisco Ju	iniper	Arista	H3C
DELL (Force 10) Br	ocade	Intel	IBM
Huawei Ne	etgear	Extreme	Alcatel-Lucent
Generic M	ellanox		
If you need to change r 'Box Pro' for custom ap	nore brands for co plication	mpatibilit	y, please go to
Revise S/N 🕜			● Yes ◯ No
Serial number			
Please filling			
Batch 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.

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	Delet Configuration Corport	ing Configuration 1	ies hu	<u>e-</u>		
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	de inter	III iioosoo	a sure of the second second			
					_	
		Configuration succ	reded			
		and the second sec				

(3) 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 eidt icon under the wavelength.

Online Configuration	Diagnosing Configuration	Box Pro	۹ ++
Connecting E	lax	Reading	Configuration
Brand O –	[] S/N ASTT191213007	AO-DTXX-R80	Wavelength CH21 (1560.61nm)
P/N*			6
DWDM-SFP10G-	C		~

Step 2: Choose the wavelength and click Apply.

Changing wavelength					
Wavelength:					
CH21 (1560.61nm)					
Tunable wavelength:					
CH19.5 (1561.83nm) ~					
Cancel 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			

4> 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	A1930005081	QSFP-IR4-40G	0
[Α\	ailable FS Transceiver Ir	nformaion]		
P/N	la.			
Q	FP-IR4-40G			
Co	mpatible Brand*			
Ju	niper			~
S/N	90 100			
A1	930005081			
Мо	re Information 🕐			-
De	vice Model Number			
JU	EX4300-48P			
Rei	nark			
Ple	ase filling			

Start Diagnosing

Save the information to my Configuration

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 O Juniper	[∭] ^s ™ Y203000429	QSFP-IR4-40G						
Available FS Transceiver	Informaion]		-					
[Problematic FS Transceiver Information]								
QSFP-IR4-40G								
Revise S/N 👔		Yes	 No 					
Batch Matching 🕐								
Start Matching								

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



<5> Box Pro Service

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

	0	$\triangleright \triangleright$		(0 F		
Applicatio	n Steps					
Step 1: Ente	r Box Pro serv	vice and click	Request Co	onfigu	iration.	
Transceiver	information	0				+
Available Co	onfiguration					
Batch Configurat	tion ? Request	Configuration	S/N	~ P	lease filling	Q

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

	My Ord	lers	My Applic	ations			- return
Apply			Order NO	~	Please	e filling Order NO	Q
Order No/Da	ıte: FS200907001174 / 20	020	-09-07 00:2	9:27			~
Product ID	Description	P/N	1	Qty	Brand	Vendor Name	Action
36157	Cisco QSFP-40G-SR4 Compatible 40GBASE-SR4 QSFP+ 850nm 150m MTP/MPO DOM Transceiver Module	QS r	FP-SR4-40G	1			Details
Order No/Da	ite: FS200906001169 / 20	020	-09-06 23:3	4:23			~

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.

		1	Apply			return
Application Infor	mation					
Description: Cisco QSFP	40G-SR4 Compa	tible 40GBASE-SR4	QSFP+ 850nm 150	Im MTP/I	MPO DOM Transceiver Module	~
Product ID: #36157 Wavelength:		P/N: QSFP-SF Max Cable Dr	14-40G stance :		Qty: 1 Interface:	
Configuration Det	ails					🕂 Add
Compatible brands*	Vendor Name	* P/N*	S/N*	Qty*	Switch Information (P/N, OS, Version)	Action
Juniper	FS	QSFP-SR4-40G	S20200914001	1	Please filling	Ŭ

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.

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

		My	Orders	Му Арј	olications		- return
					Please filling Order	No	Q
	Order No	Application No	Application Note	Application	1/Audit Date	Status	Action
1	FS200907001174	W1597223550548	no note	[Applicatio	en 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 Config	uration ?	Reque	st Configur	ation	S/N 🗸	Please filling	٩
Application	No/Date: W15	9722355	0548 / 2020-0	9-07 12:32	43 Order No:	F5200907001174	^
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 📀							Ð			
Available	Configu	ratior	ı							
Batch Config	guration ?	Requ	uest Config	uration		S/N	~	Please filling		Q
Application	n No/Date: W1	600398	462915 / 2020)-09-18 03:	:08:47	Orde	er No	: FS190813415903		^
Product ID	P/N	Brand	Vendor Name	Attribute	New S	/N		Application Note	Action	
#11552	SFP-10GSR-85	Cisco	FS	850nm	POOD	23456785	91	this is application note	Configu	ration

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

Connectir	ng Bax	Rea) ding		Configuration
S	Brand		1234567891		IGSR-85
No	P/N	Brand	New S/N		Status
	CED 10CCD OF	Cisco	PO001234	567891	Waiting

If you want to stop the batch configuration, just click Stop Batch Configuration after configuration succeeds.

 b. 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.

ransceiver information 👔								+	
Availab	le Configu	ration	I						
Batch Cor	figuration ?	Requ	est Config	uration		S/N	~	Please filling	Q
Applicat	ion No/Date: W1	6001595	540653 / 202	0-09-15 08	3:49:58	Or	der≬	lo: FS200906001169	^
Produc	tID P/N	Brand	Vendor Name	Attribute	New S	/N		Application Note	Action
#31238	SFP-10GSR-85	Cisco	FS	850nm	PO001	2345678	92	this is application note	Configuration
#31287	SFP-10GSR-85	Juniper	FS	850nm	PO001	2345678	93	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.

Connec	ting Box	Readin	9		Configuration
6	a) Brand	[]]]]] SN PO0012	34567892	SFP-10G	5R-85
No	P/N	Brand	New S/N		Status
1/2	SFP-10GSR-85	Cisco	PO001234	567892	Waiting
2/2	SFP-10GSR-85	Juniper	PO001234	567893	Waiting

<6>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

Q.C. PASSED

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