FS Box User Instruction

Firmware Upgrade Tool Kit for FS SFP/SFP+/SFP28/XFP/QSFP+/QSFP28 Transceiver Modules



Application

FS Box V2 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 V2 could help engineers configure in a timely and effective way.

Features

- Online Configuration
- Diagnosing Configuration
- Box Pro
- Windows and Mac OS Operating Systems Supported
- Batch Configuration
- Wavelength Tuning
- Digital Diagnostic Monitoring (DDM)

1. Driver Installation

Go to fsbox.com and you will see the home page as below.



1.1 Download Driver.



You can download the driver on the home page.



Or you can download the driver after sign in.



No FS_Service driver installed.

Please reload the browser after the installation is complete.

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

Windows

Mac OS

 \sqrt{m}



No FS_Service driver installed.

Please reload the browser after the installation is complete.

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



1.2 Install MacOS Driver.

1) After download the driver, double-click the driver file FSInstall_Mac_Beta.dmg.



2) Long click the FS Box and drag to the Application folder

000	🔛 FSInstall_Mac		
	FS Box		
		A	
FS Box		Application	

3) Find the FS Box application on the Launchpad, then double-click it and a system popup prompt will appear, click Open.

Chrome downloaded this file today at 2:42 PM from 54.245.72.232	0	"FS Box" is an a you sure you wa	pp downloaded from the In ant to open it?	nternet. Are

4) Click Install to enter the Mono download page, then select Mono to download.



5) After download the Mono, double-click the file MonoFramework for installation.

	🜍 Install Mono Framework	
	Welcome to the Mono Framework Installer	
Introduction	You will be guided through the steps necessary to install this software.	
Read Me	Software.	
License		
Destination Select		
Installation Type		
Installation		
Summary		
	Go Back Commu	
	6 m	

6) After the Mono installation is complete, click to restart.



7) Status displays in green means the driver is successfully installed and activated normally.



1.3 Install Windows driver.

1) After download the driver, double-click the driver file FSInstaller for installation.

FS_Service				×
Welcome to the FS_S	ervice Setup W	ïzard		-
The installer will guide you through th	ne steps required to install l	FS_Service on your (computer.	
WARNING: This computer program i Unauthorized duplication or distributio or criminal penalties, and will be prose	on of this program, or any p	portion of it, may resu	lt in sever	t>

2) FS service will be automatically activated when the driver is installed, and you can see



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

2. Login Operation

Read and agree to	Terms of Use,	then log in wi	th your FS account.

FS Box	
Sign in	
 ∞ x0000000x 	
Forgot your password ? Language	
English Read and Agree to Terms of Use	-77
Ston in Create an account >>	

If you don't have an account, click Create an account to create an account.

3. Online Configuration Service



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

3.1 Online Configuration

1) Connect FS Box to your computer via supplied USB cable.





Please connect FS Box

2) Insert your transceiver into the corresponding port of FS Box.





Please insert your transceiver for reading.

3) Choose the compatible brand and click Start Configuration.

Connecting Box Connected	Reading Reading Succeeded				3 Configuration
Brand	00	SIN 536020101	10		P/N GET(P) QSFP-SR4-40G
	Cisco DELL (Force 10) Huawei Generic @ More compati	SR4-40G choose Juniper Brocade Netgear Metlanox ble brands, please	Brai Arista Intel Extreme go to 'Box Pro'.	N * H3C IBM Alcatel-Lucent	
	Juniper Revise S Batch Co	VN @ onfiguration @ / Start Ca) Yes	0 × ▼ 0	

4) After configuration succeeded, you can see the updated information in the reading column. Then pull out the transceiver.



3.2 Batch Configuration

Batch configuration function is to help you configure the same type transceivers in large amount more efficient, please operate as follow:

1) Connect FS Box to your computer via supplied USB cable.



2) Insert your transceiver into the corresponding port of FS Box.





Please insert your transceiver for reading.

3) Open the Batch Configuration button and click Start Configuration.

\odot	\odot	3
Connecting Box Connected	Reading Reading Succeeded	Configuration
Brand Juniper	S/N (mm)(S) \$5360201010	P/N COSFP-SR4-40G
	QSFP-SR4-40G P/N *	
		0
	Revise S/N Yes NO Batch Configuration	
	✓ Start Consiguration	
	2 m	

4) After configuration succeeded, then insert and remove your transceivers repeatedly.

\bigotimes	\odot			\bigcirc	
Connecting Box Connected	Reading Reading Succeeded				Configuration Configuration Succeeded
Erand ☐ ☐ ☐ Cisco		S/N m (S) Y1905222149			P/N QSFP-SR4-40G
		QSFP-SR4-40G	P/N *		
		Cisco	Brand * 💌	0	
		Revise S/N 🕢	O Yes No		
			ransciever		

If you want to stop the batch configuration, just close the Batch Configuration button after configuration succeeded.

3.3 Wavelength Tuning

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

1) Connect FS Box to your computer via supplied USB cable.



2) Insert your tunable transceiver into the corresponding port of FS Box, and the platform can quickly identify it. Then click Revise.

\odot	\odot	3
Connecting Box Connected	Reading Reading Succeeded	Configuration
Brand G G C Juniper	S/N Image: Signature P/N Image: Signature G1810048235 Image: Signature DWDM-	SFP10G-C
	DWDM-SFP10G-C P/N *	
	Please choose Brand * ▼	
	Revise S/N O Yes O No Batch Configuration O	
	✓ Start Configuration	

3) Choose the wavelength and click Start.

Changing wav	elength				>
wavelength:	CH19.5 (1561.83nm)				
Tunable wavelength:	CH21 (1560.61nm)	•	-		
				Sign out	Start
				UT D	2hm

4) You can see the updated wavelength and status after configuration succeeded, then click Sign out.

Changing wave	elength	>
wavelength:	CH21 (1560.61nm) 🥥 changed	
Tunable wavelength:	Please choose	
		Sign out

4. Diagnosing Configuration Service



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

1) Connect FS Box to your computer via supplied USB cable.



2) Insert your available FS transceiver into the corresponding port of FS Box.



3) Choose the compatible brand of your available FS transceiver and fill in the device model number which the transceiver will be used, then click Start Diagnosing.

	\odot	\odot	(D	4	(5)					
	Connecting Box Connected	Reading Reading Succeeded		nosing r Diagnosing	Replace Transceiver	Matching					
[Current Transceiver Information]											
	Brand Cisco		S/N (0) Y1905222	149		DIFP-SR4-40G					
			Clsco Nexus 92160YC-X Please filling	PrN * Compatible Brand * SN * ormation ~ Device Model Number Remark							

4) Remove the available FS transceiver and insert problematic FS transceiver after diagnosing succeeded.

	\odot	\odot	\odot	0	5
		eading g Succeeded D	Diagnosing Diagnosing Succeeded	Replace Transceiver Waiting for Replacement	Matching
		[Curre	ent Transceiver Information]		
Brand Cisco		on S/N	N 1905222149		P/N GET (P) QSFP-SR4-40G
		[Available FS Trans	ceiver Information]		
		QSFP-SR4-40G	P/N *		
			available FS transceiver a matic FS transceiver.	nd insert	
		Save the information	ation to My Configurations		

5) Click Start Matching after the transceiver replaced.

\odot	\bigcirc	\bigcirc	\bigcirc		
Connecting Box Connected	Reading Reading Succeeded	Diagnosing Diagnosing Succeeded	Replace Transceiver Replaced	Matching Waiting for Matching	
		[Current Transceiver Information]			
Brand Cisco		S/N A1930005081		Den (P) P/N QSFP-SR4-40G	
	[Available	FS Transceiver Information]	More ~		
	[Problema	tic FS Transceiver Information]			
	QSFP-5	R4-40G	P/N *		
	Revise S/	N 🛛 Ye	es 💿 No		
	Batch Ma	tching 🞯			
		Start Matching			

If you need to continue matching other transceivers, just open the Batch Matching button. Then insert and remove the transceivers repeatedly.

6) You could see updated information in the reading column after matching succeeded, then pull out the transceiver.

	\odot	\bigcirc	\bigcirc	\bigcirc
Connecting Box Connected	Reading Reading Succeeded	Diagnosing Diagnosing Succeeded	Replace Transceiver Replaced	Matching Matching Succeeded
		[Current Transceiver Information]		
Brand Cisco		S/N Y1905222149	(0	P/N ©TP QSFP-SR4-40G
		d, please insert next transceive		

5. Box Pro Service



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

5.1 Application Operation

1) Enter Box Pro service and click Request Configuration.

C				
Connecting Box Searching for FS Box		Reading		Configuration
Brand	Goo S/N Goo -		Vendor Name	Den P/N
Available Configuration				
Application No Application No Order No	Order No S/N	s/N		Satch Configuration
Application No: W1567655825862 Application D	ate: 2019-09-05 03:57:06 Order No:	: FS190802657891		
Application No: W1567655533504 Application D	ate: 2019-09-05 03:52:14 Order No:	FS190813415903		
Application No: W1567420724401 Application D	ate: 2019-09-02 10:38:44 Order No:	: FS190813415903		
► Application No: W1567409549918 Application D	ate: 2019-09-02 07:32:30 Order No:	FS190725772675		
► Application No: W1566354192318 Application D	ate: 2019-08-21 02:23:12 Order No:	: FS190813415903		
Application No: W1565766602009 Application D	ate: 2019-08-14 07:10:02 Order No:	: FS190813385896		
			Hom	ie 1 2 🕨 Last Total11

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

ly Orders My Applications 2								← return
ease filling Order No	Please filling	Product ID	Please filling		P/N Q			
Order No: FS191025158160 Ord	der Placed: 2019-10-25 19:21:02							+ Apply
Order No: FS191015419002 Ord	der Placed: 2019-10-15 02:18:29							*/88
Product ID Description		P/N		Qty	Brand	Vendor Name		ACT
	patible 10GBASE-LR SFP+ 131 DM Transceiver Module	SFP-10GLR-31		50	-			Details
Order No: FS190813415903 Ord	der Placed: 2019-08-13 19:35:55							+ Apply
Order No: FS190813385896 Orr	der Placed: 2019-08-13 19:23:29							+ Apply
Order No: FS190802657891 Ord	der Placed: 2019-08-02 04:03:57							+ Apply
Order No: FS190725772675 Ord	der Placed: 2019-07-25 19:19:10							+ Apply
Order No: FS190718566732 Ord	der Placed: 2019-07-18 02:37:06							+ Apply
Order No: FS190612620654 Ord	der Placed: 2019-06-12 20:53:50							+ Apply
Order No: FS190612580653 Ord	der Placed: 2019-06-12 20:53:49							+ Apply
						Home	1 Last	Total9

dim

3) Fill the configuration details you need to custom and submit. You will receive the auditing result of your application in 1 to 3 business days.

bly Box-pro > My Orders >	Apply				Order No: FS19101	5419002 Order Placed: 20	19-10-15 02:18:2
Please fill in more information regardit	ng the switch so that we can better serve	you. ×					
Product: Generic Compatible 10GBAS	BE-LR SFP+ 1310nm 10km DOM Transc	eiver Module					
Product Description							
Product ID Description			P/N	Qty	Wavelength	Max Cable Distance	Interface
74670 Generic Compatible	10GBASE-LR SFP+ 1310nm 10km DO	M Transceiver Module	SFP-10GLR-31	50	1310nm		LC duplex
Configuration Details	sorry that the service of changing vendo	r is off now. ×					
Alcatel-Lucent 👻	OEM 👻	SFP-10GLR-31	Y12345	6789	1	Switch	
Switch OS	Switch Version	+					
		_					
Application Note							
Cancel							

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

Product: Generic Compatible 10GBAS	E-LR SFP+ 1310nm 10km DOM Tra	ansceiver Module					
Product Description							
Product ID Description			P/N	Qty	Wavelength	Max Cable Distance	Interface
74670 Generic Compatible	10GBASE-LR SFP+ 1310nm 10km	DOM Transceiver Module	SFP-10GLR-31	50	1310nm		LC duplex
Alcatel-Lucent	OEM		Y123456	1789	1	Switch	
Switch OS	Switch Version	× +					
Please choose compatible 💌	FS	P/N	S/N		Qty	Switch	
Switch OS	Switch Version						

4) See application status and configuration details in My Application.

My Ord	ers My Applications 2					$\leftarrow return$
Please fill	ing Order No					
#	Order No.	Application No	Application Note	Date	Status	Action
1	FS191015419002	W1575373421775	-	[Application Date] 2019-12-03 11:43:42	Unaudited	
2	FS191025158160	W1574305680230	**	[Application Date] 2019-11-21 03:08:00	Unaudited	Details
3	FS191025158160	W1574304731762	-	[Application Date] 2019-11-21 02:52:12	Unaudited	Details
4	FS191025158160	W1574156213775	-	[Application Date] 2019-11-19 09:36:54	Unaudited	Details
5	FS191025158160	W1574148547548	Test	[Application Date] 2019-11-19 07:29:08	Unaudited	Details
6	FS190725772675	W1574145797039	test432	[Application Date] 2019-11-19 06:43:17	Unaudited	Details
7	FS190725772675	W1574145371234	test432	[Application Date] 2019-11-19 06:36:11	Unaudited	Details
8	FS190725772675	W1574140268212	test1	[Application Date] 2019-11-19 05:11:08	Unaudited	Details
9	FS191025158160	W1573790967527	-	[Application Date] 2019-11-15 04:09:28	Unaudited	Details
10	FS191025158160	W1573717356832	-	[Application Date] 2019-11-14 07:42:37	Unaudited	Details
				Home 1 2 3 4 5	▶ Last	Total66

5.2 Configuration Operation

1) Connect FS Box to your computer via supplied USB cable and insert corresponding transceiver into corresponding port.

2) Locate the application which is approved and click Configuration.

\odot	\odot					0		
Connecting Box Connected			Readir Reading Suc			Configuration Waiting for Configuration		
Brand		S/N S/N FS12	34567		Vendor Name FS	p/ colp Si	N FP-10GSR-85	
Available Configuration								
Application No Application No	Order No	Order No	S/N	s/N Q		Batch Configuration 📀	Request Configuration	
Application No: W1567655825862	Application Date: 20	019-09-05 03:57:06	Order No: FS190802657891					
Application No: W1567655533504	Application Date: 20	019-09-05 03:52:14	Order No: FS190813415903					
▼ Application No: W1567420724401	Application Date: 20	019-09-02 10:38:44	Order No: FS190813415903					
Product ID	P/N	Brand	Vendor Name	Attribute	New S/N	Application Note	Action	
#11552	SFP-10GSR-85	Arista	FS	850nm	123	testo	Configuration	
Application No: W1567409549918	Application Date: 20	019-09-02 07:32:30	Order No: FS190725772675					
Application No: W1566354192318	Application Date: 20	019-08-21 02:23:12	Order No: FS190813415903					
						Home 1 2	Last Total11	

3) After configuration succeeded, you can see the updated information in the reading column. Then pull out the transceiver.

\bigcirc		\odot			\odot		
Connecting Box Connected		Reading Reading Succeeded		Configuration Configuration Succeeded			
Brand C C C Arista	S/N S190183320	1	Vendor I	Name		2/N SFP-10G-BX80	
Available Configuration							
Application No Application No Order No					Batch Configuration	Request Configuration	
Application No: W1567655825862 Application Date: 20)19-09-	TA					
Application No: W1567655533504 Application Date: 20	119-09-	Configuration succe	babe				
▼ Application No: W1567420724401 Application Date: 2	019-09-	Comgaration Succo					
Product ID P/N		Vendor Name A	ttribute	New S/N	Application Note	Action	
#11552 SFP-10GSR-85	Arista	FS 8	50nm	123	testo	Configuration	
► Application No: W1567409549918 Application Date: 24	019-09-02 07:32:30 Order	No: FS190725772675					
Application No: W1566354192318 Application Date: 24	019-08-21 02:23:12 Order	No: FS190813415903					
					Home 1 2	Last Total	

5.3 Batch Configuration Operation

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

1) Connect FS Box to your computer via supplied USB cable and insert corresponding transceiver into corresponding port.

2) Select the application which is approved and click Batch Configuration.

\odot		Q					
Connecting E Connected		Read Reading Su				Configuration Waiting for Configura	tion
Brand 6 6 6 Arista	ł	s/N sin_(§) \$190183	3201		lendor Name S	P/N P/N	P-10G-BX80
Available Configuration							
Application No Application No	Order No	Order No	/N	S/N		Batch Configuration @	Request Configuration
Application No: W1567655825862	Application Date: 2019-0	9-05 03:57:06 O	rder No: FS190802657891				
Application No: W1567655533504	Application Date: 2019-0	9-05 03:52:14 O	rder No: FS190813415903				
▼ Application No: W1567420724401	Application Date: 2019-0	9-02 10:38:44 O	rder No: FS190813415903				
Product ID	P/N	Brand	Vendor Name	Attribute	New S/N	Application Note	Action
#11552	SFP-10GSR-85	Arista	FS	850nm	123	testo	Configuration
Application No: W1567409549918	Application Date: 2019-0	9-02 07:32:30 O	rder No: FS190725772675				
Application No: W1566354192318	Application Date: 2019-0	8-21 02:23:12 O	rder No: FS190813415903				
						Home 1 2	Last Total11

3) Click Start Configuration, then insert and remove your transceivers repeatedly.

Connecting Box Connected		\otimes					
		Reading Reading Succeeded				Configuration Waiting for Configuration	
Brand <u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Brand <u> </u> <u> </u> Arista</u>		5/N 5 \$1901833201		8000	Vendor Name FS		/N FP-10G-BX80
Available Configuration		No P/N	Brand	NewSn	Status		
Application No Application No	Order No	1/1 SFP-10GSR-85	Arista	123	Unused	Batch Configuration 2	Request Configuration
▶ Application No: W1567655825862	Application Date: 2019-09-		-	No.			
Application No: W1567655533504	Application Date: 2019-09-						
▼ Application No: W1567420724401	Application Date: 2019-09-						
Product ID	P/N Br	Please click Start Configuration to reconfigure.			Application Note	Action	
#11552	SFP-10GSR-85 Ar		page during the cor configuration file w		s, otherwise the	testo	Configuration
▶ Application No: W1567409549918	Application Date: 2019-09-		Start Com	suration			
Application No: W1566354192318	Application Date: 2019-08-2	1 02:23:12 Order No:	FS19081341590				
						Home 1 2	Last Total11

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

b. If you need to configure multiple types of configurations, please operate as follow:

1) Connect FS Box to your computer via supplied USB cable and insert corresponding transceiver into corresponding port.

2) Select the applications which are approved and click Batch Configuration.

Connecting Box Connected			Reading Succ		Configuration Waiting for Configuration		
Image: Brand Image: Graph of Graph o		5/N 555 S1901	833201		/endor Name 'S		^{5/N} SFP-10G-BX80
vailable Configuration							
Application No Application No Application No: W156765582588	52 Application Date:	Order No 2019-09-05 03:57:06	S/N Order No: FS190802657891	S/N Q		Batch Construction	Request Configuration
Product ID #50000	P/N SFP-10GSR-85	Brand	Vendor Name FS	Attribute 850nm	New S/N test1	Application Note	Action
#50000	SFP-10GSR-85	Arista	FS	850nm	test2	qqqrrr	Configuration
#50000	SFP-10GSR-85	Arista	FS	850nm	test3	qqqrrr	Configuration
Application No: W156765553350	04 Application Date:	2019-09-05 03:52:14	Order No: FS190813415903				
Application No: W156742072440	01 Application Date:	2019-09-02 10:38:44	Order No: FS190813415903				
						Home 1 2	Last Total1

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

Connecting Box Connected	Reading Reading Succeeded	Configuration Waiting for Configuration	
Brand Arista	SIN Vendor Name S1901833201 FS	PIN TO SFP-10G-BX80	
wailable Configuration	No P/N Brand NewSn Status		
Application No Application No Order No	1/2 SFP-10GSR-85 Arista test1 Unused	Batch Configuration Request Configuration	
✓ Application No: W1567655825862 Application Date: 2019-09-	2/2 SFP-10GSR-85 Arista test2 Unused		
Product ID P/N Br	28	Application Note Action	
✓ #50000 SFP-10GSR-85 Ar		qqqrrr Configuration	
✓ #50000 SFP-10GSR-85 Ar		qqqrrr Configuration	
#50000 SFP-10GSR-85 Ar	Please click Start Configuration to reconfigure.	qqqrrr Configuration	
Application No: W1567655533504 Application Date: 2019-09-	Do not close the page during the configuration process, otherwise the configuration file will be damaged.		
Application No: W1567420724401 Application Date: 2019-09-			

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

5. Feedback Operation

If you encounter any problems during the operation, please operate as follow to feedback to FS Box Service Team.

1) Click Need Help and choose Give Feedback.

FS Box			
			Chat live with us Live Chat
	Cloud 2111		ANNA Cloud Box Pro
	\odot	\odot	3
	Connecting Box Connected	Reading Reading Succeeded	Coding -
	Brand Cibio Cisco	S/N Y1806218527	PN SFP-100SR-85
		SFP-10GSR-85 P/N *	
		Please filling Brand * 🔻	
		Revise S/N Ves No	
		Batch Coding @	
		🖉 Start Coding	

2) Fill in the information and take a screenshot or upload an image, then submit.

	🕞 Feedback	×	
Connecting Box Connected	P/N of Coded Module: Coded Compatible Brand: IBM Order Number of the Module: V1806218527		3 Coding
Brand CISCO	Problem Description: Solution: Solution: Please enter feedback I can't can't the S/N when I change the module to IBM compatible in online coding.		'-10GSR-85
	Computer Operating System: Microsoft Window Browser Type: chrome:71.0.3578.98 Driver Vers	sæpnit	
	Tips: The FS Box system has access to your device details, which will help us find solutions faster.		



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