

Falcon 4118 Quick Installation Guide

Release Date	Note
March 29 th , 2021	
May 26 th , 2021	Firmware update process

Falcon 4118 Default Settings:

IP Address:	169.254.100.100
Gateway:	0.0.0.0
Administrator Username:	admin
Administrator Password:	admin

Dear Users

Thank you for choosing our product-Falcon 4118.

The excellent quality and performance make our products superior in the like product. For you to have the good understanding to Falcon 4118, please read the installation guide and user manual, and operate according to the suggested steps for each feature.

If you have any questions when using our machine, please feel free to contact us. We are more than happy to serve you constantly.

Technical Support: <u>support@h3platform.com</u> FAQ: <u>https://www.h3platform.com/</u>

H3 Platform Inc. mainly researches and develops PCIe switch-based technology and solutions.

---- H3 Platform Inc.

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Chassis Overview

PSU



PCIe Gen4 x4 each

Left bracket for drawer 1 Right bracket for drawer 2 Extra socket for redundant

PSU

PCIe Port Number

Please refer to the image below to find the physical PCIe slots that is corresponding to the port numbers displayed on the GUI.

E.g.

The device installed on the slot 1:1 will be shown on GUI as "1:1 – [device name]".

Chassis rear view



GUI view



Device name may vary.

Device Installation

1. Pull out the drawer

- 1. Loosen the hand screws.
- 2. Pull the handle all the way down.
- 3. Pull the drawer out.



2. Remove the stabilization plate

- 1. Unscrew the stabilization plate (both sides).
- 2. Lift the plate up to remove.



3. Install Device

- 1. Plug the device to the PCIe slot.
- 2. Screw the bracket to hold the device in place.

Connect the PCIe power cable to the device if needed.

Caution:

The slots are single width. Oversized devices may not fit.



The power connectors are PCIe slot specific, only slot 1,2 and 7,8 can access the extra 225W PCIe power. Please do not cross connect power cables to the devices on other PCIe slots.





The position of the power connector holder is adjustable.

Adjust the position of the power connectors for smooth device installation.

- 1. Loosen the screws.
- 2. Move the holders to desired position.
- 3. Tighten the screws to hold it in position.



4. Put the stabilization plate back

- 1. Place the stabilization plate back.
- 2. Screws on both sides to hold the plate in place.

There are three positions available for the stabilization plate, pick the ones that would not block the power connectors of your DEVICE.



5. Insert the drawer back to the chassis

- 1. Push the drawer all the way into the drawer socket until slight resistance.
- 2. Lift the handle, the drawer will be pushed into the position.
- 3. Tighten the hand screws.



Cabling Guide

This guide is demonstrated with host port 1:H1. Also applies to host port 2:H1, 1:H2 and 2:H2 (host mode).

1 port x16 lanes

Connect the correspond ports as shown in the diagram.





2 ports x8 lanes (Advanced mode)

Connect the corresponding ports as shown in the diagram.

After booting up Falcon 4118,

Go to GUI→Port Configuration

Set the host port to 2x8 mode before power on the host machines.

Host 1	-	Chassis
0	-	0
1	-	1
Host 2	-	Chassis
Host 2 0	-	Chassis 2

Host 1 will be recognized as 1:H1.0 Host 2 will be recognized as 1:H1.1



4 port x4 lanes (Advanced mode)

Connect the correspond ports as shown in the right diagram.

After booting up Falcon 4118,

Go to GUI \rightarrow Port Configuration

Set the host port to 4x4 mode before power on the host machines.

Host 1	-	Chassis
0	-	0
Host 2	-	Chassis
0	-	1
Host 3	-	Chassis
0	-	2
Host 4	_	Chassis
110501	_	Chassis



Host 1 will be recognized as 1:H1.0 Host 2 will be recognized as 1:H1.1 Host 3 will be recognized as 1:H1.2 Host 4 will be recognized as 1:H1.3

If your HBA (host side) is installed in different directions, make sure you connect the cables to the right connectors.

Failure to follow the cabling order may result in system error.

Additional Host Ports



Please install the re-timer card to the riser slot for additional host port(s)

This host port will be recognized as 1:H2 or 2:H2 on GUI.

Make sure that the port(s) is configured into host mode before installing the re-timer card. See Falcon-4010 User Manual- Port Configuration for details

Note:

H3 re-timer card only supports 1x16 configuration now. Bifurcation function coming soon.

Drawer 1 Additional host port



Install the re-timer card to the upper-left bracket for drawer 1. (1:H2)

Drawer 2 **Additional host port**



Installed the re-timer card to the upper-right bracket for drawer 2 (2:H2)

To open the top lid:

- 1. Press and hold both buttons on the lid
- 2. Push the lid toward back



Booting Process

Caution:

Please complete Falcon 4118 boot up before power on any hosts. Improper operation can cause system errors.

1. Install DEVICEs to Falcon 4118

Please refer to the DEVICE installation section.

2. Connect the management port to your network



3. Connect the chassis to host(s)





Please make sure that the tooth is hooked properly to the openings on the SFF-8644 connector when connecting the cables.



The actual position of HBA may look different on your host(s). For cabling details, please see the Cabling Guide section.

4. Connect to A/C power

Falcon 4118 will be powered-on when the power cords are plugged in. No further action is required for this step.



5. Check LCD for system readiness

When the system is ready, the LCD will display the model name and the IP address.

E.g. "Falcon 4118" 10.0.24.52



You can now proceed to GUI set up

Set Up GUI

GUI can only be accessed when Falcon 4118 is booted up. Type the IP address of Falcon 4118 to the URL bar to enter GUI. Make sure the IP is correct and is under the same subnet as the management machine.

Compatible Web Browsers: Firefox 3.5 (or higher) Chrome v_12 (or higher)

You will be led to the "initial setting" page at your first log-in. Please refer to the following steps to complete GUI set-up.

1. License Setting

1. Choose your activation option

Select "Basic License" if you have not obtained a premium license. The system will run standard mode.

Select "Premium License" and enter your license key if you have obtained one. The system will run advanced mode.

Click "Next" to proceed to User Setting.

1 License Setting	2 User Setting	3 Network Setting	4 Time Set
System Profile			
Model Falcon-4010			
Serial Number 00000-3117359			
Mac Address A6:3B:27:1F:AD:3B			
Activation Options			
Basic License			
O Premium License			
Or Premium License Key			
To be also and the line of the			

Please contact sales@h3platform.com for Premium License Purchases.

2. User Setting

The username for the initial account will be "**admin**" and is not changeable. You will be asked to reset the log-in password for admin.

- 1. Type in your new password
- 2. Confirm new password
- 3. Click next to proceed to Network Setting

License Setting	2 User Setting	Network Setting	Time Settin
To set the administrator password			
Set Password *			Ø
Confirm Password *			Ø

* Please keep your password safe, you will be asked to log-in every time you access GUI

2. Network Setting

Select "Obtain IP address automatically" if not using static IP. Select "Obtain DNS server address automatically" if not using specific DNS server.

Setup static IP:

- 1. Fill in the IP address
- 2. Fill in the Subnet mask
- 3. Fill in the Default Gateway
- 4. Fill in the DNS server address
- 5. Click Next to proceed to time setting

C License Setting	User Setting	8 Network Setting	Ime Se
TCP / IP Setting			
O Obtain IP address autor	natically (DHCP)		
 Use the following IP add 	Iress (Static IP)		
IP Address * 10.0.24.90			
Subnet Mask * 255.255.0.0			
Default Gateway* 10.0.21.1			
DNS Setting			
O Obtain DNS server addr	ess automatically		
Use the following DNS s	erver address		
DNS Server * 8.8.8.8			G

3. Time Setting

- 1. Select your time zone
- 2. Setup the system time

 License Setting User Setting Network Setting 4 Time Setting Synchronize with NTP server: Current Date & time (Readon) 2020-11-27 11:14:12 0 Time Zone * (GMT+08:00) Talwan, Talpel Fill in the NTP server (NIST) Synchronize with NTP Serve address NTP Server * time.nist.gov Last sync time (Readonly) 2020-11-27 10:54:57 Click "Sync Now" Sync Now O Manual Setting 🖬 Date * Manual Setting: Select a date using calendar Set a time

- 3. Click "Apply" to proceed
- * If you do not modify the time settings, the default time will be synchronized to time.nist.gov

4. Confirm your information

"Confirming Details" will pop-up. Please make sure that all the information is correct.

Click "No" to keep editing settings. Click "Yes" to save the settings.

Please do not exit the page when the saving process is loading.



6. Firmware update

Please update to the latest firmware

Files can be found:

https://www.h3platform.com/knowledge-base/document

Go to Knowledge Base → Download

Product type:	Composable PCIe Chassis
Model type:	Falcon 4118
Download item:	Firmware



- 1. Download the firmware file to your device (i.e., your PC)
- Go to Falcon 4118 GUI → Maintenance page Click "Upload/Install"



Upload the firmware **.img** file. The confirmation message will pop-up, **confirm that you have disconnected all host machines** then click "Yes" to proceed. The system will automatically detect which firmware file is uploaded. (BMC or PCIe switch)

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When the update completes, click "restart now" the system will reboot automatically.



The firmware update is completed after rebooting.

The Falcon 4118 installation and initial set-up are completed. Please see Falcon 4118 User Manual for more operation details.

Warranty

H3 Platform offers free 2-year limited warranty service on our products. If the standard warranty period is not enough, H3 Platform offers optional purchase extended warranty service coverage that will provide warranty for 1, 2, or 3 additional years.

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If a product does not operate as warranted above during the applicable warranty period, H3 Platform shall, at its option and expense (except for shipping cost), repair the defective product or part, deliver to the customer an equivalent product or part to replace the defective item. All products that are replaced will become the property of H3 Platform. Replacement products may be new or reconditioned.

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- 2. The warranty label is broken or removed,
- 3. The serial number label is missing or unrecognizable,
- 4. The product has been modified or repaired by any unauthorized service center or personnel.
- 5. The defect was subject to abuse, improper use not conforming to product manual instructions, or environment conditions more severe than those specified in the manual and specification.
- The defect was subject to Force Majeure, such as acts of God, flood, lighting, earthquake, war, vandalism, theft, brownouts or sags (damage due to low voltage disturbances)
- 7. Consumables, such as batteries
- 8. Routine cleaning, or normal cosmetic and mechanical wear
- 9. Damage caused by misuse, abuse, or neglect
- 10. Damage caused by parts that were not manufactured or sold by H3 Platform
- 11. Damage caused by installing devices not on the compatible list
- 12. Damage caused when warranted parts were repaired or replaced by an organization other than H3 Platform or by a service provider not authorized by H3 Platform.

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Repair Service

Warranty and out of warranty service should be obtained by contacting the system integrator/dealer/retailer/e-retailer or distributor where the customer purchased the product. When requesting for service, the proof of purchase and the product serial number must be provided. The return of the defective product should be strictly through the original route of purchase, and the customers shall pack the product appropriately to prevent the returned product from suffering in the transportation.

There are no user serviceable parts inside the product. Do not allow any unauthorized service center or personnel to repair or modify the product. If the original channel is no longer in business or unavailable, the customer may contact H3 Platform Technical Support for international RMA services. In this case, the customer will be charged for handling fee, \$50 (USD), and all fees incurred, including two ways freight, duties, taxes and brokerage fee.

It is customer's sole responsibility to back up his/ her data. Before allowing any service from H3 Platform or its service provider, including remote login check and repairing service, the customer must back up the data and remove any of the customer's confidential, proprietary or personal information. Neither H3 Platform nor its service provider will be liable for any damage, loss and exposure of confidential or private information or data contained in any product, hardware, software or media.

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