

# Falcon 5208

## GUI User Manual

# Notes, Cautions, and Warning



**Note**

A NOTE indicates important information that helps you make better use of your product.



**Caution**

A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**Warning**

A WARNING indicates a potential for property damage, personal injury, or death.

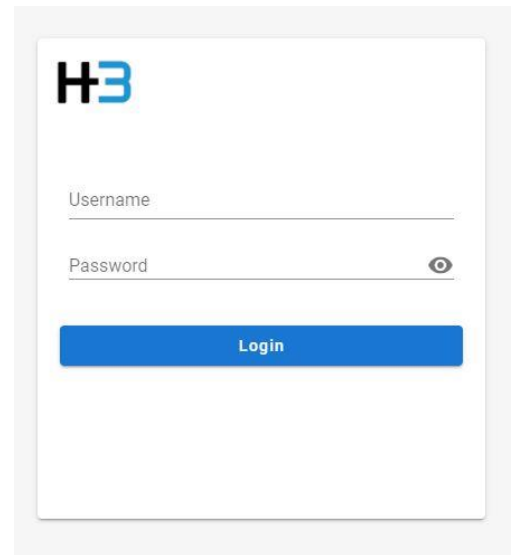


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# 1. Log-in

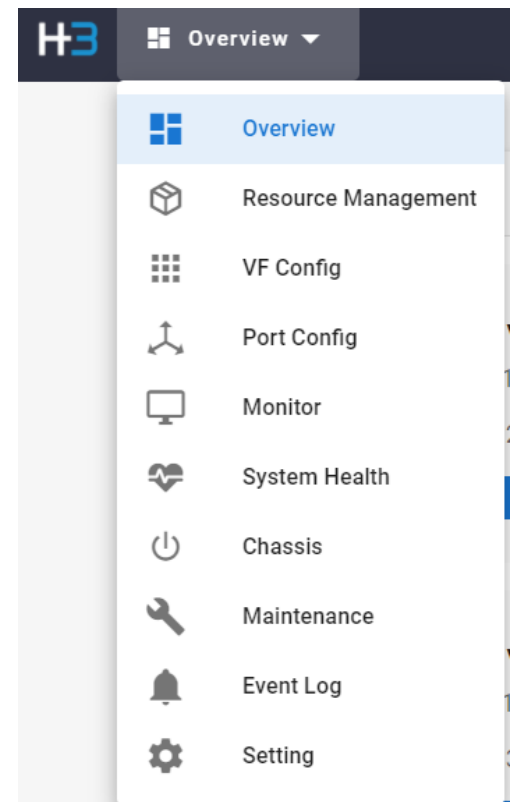
Every time you access GUI, you will be asked to log in.  
Please enter your **username** and **password**.



# 2. Functions

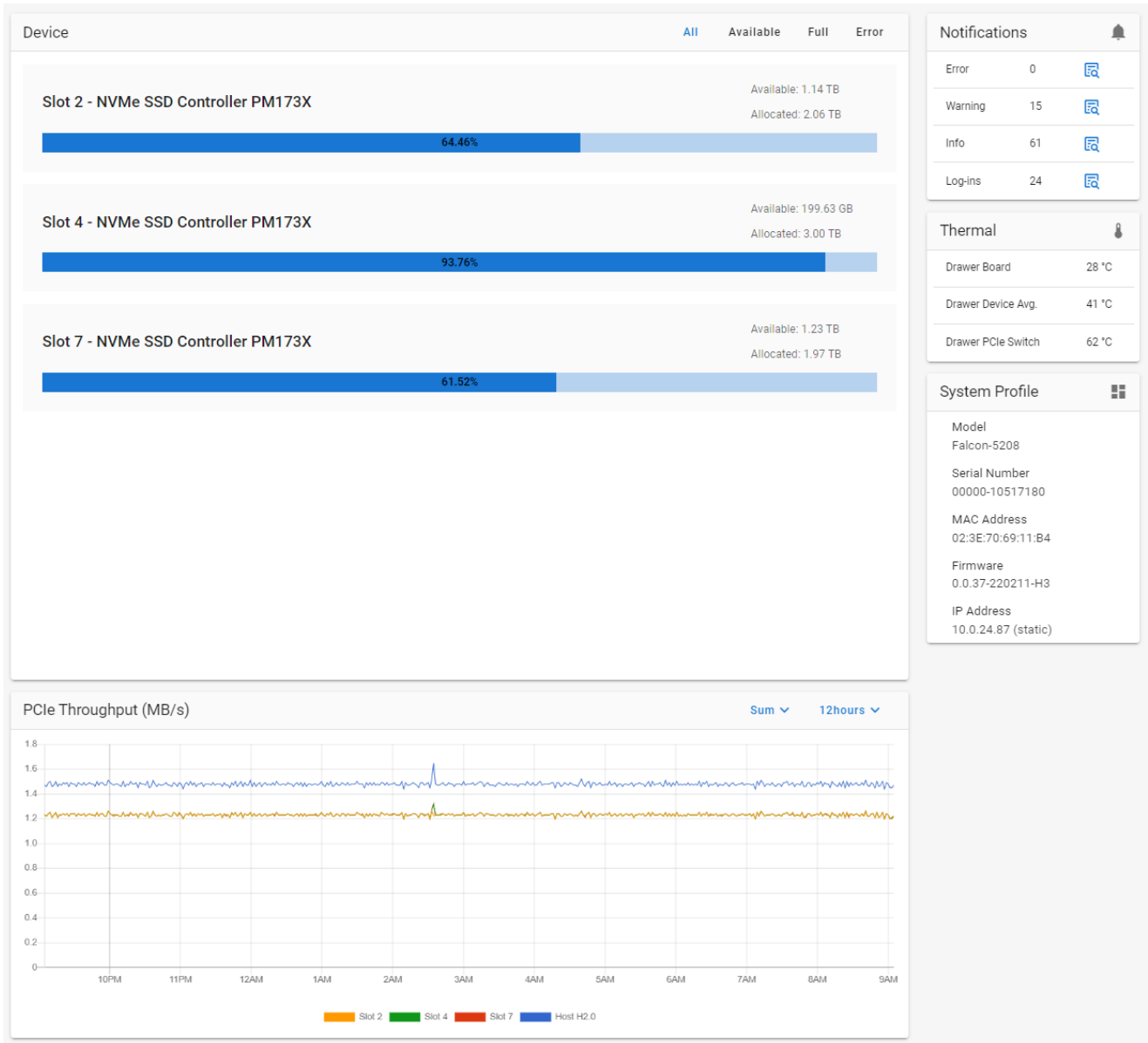
The drop-down menu is at the top-left of the page. Users can select functions from the menu.

Please find details of each function in the relative section.



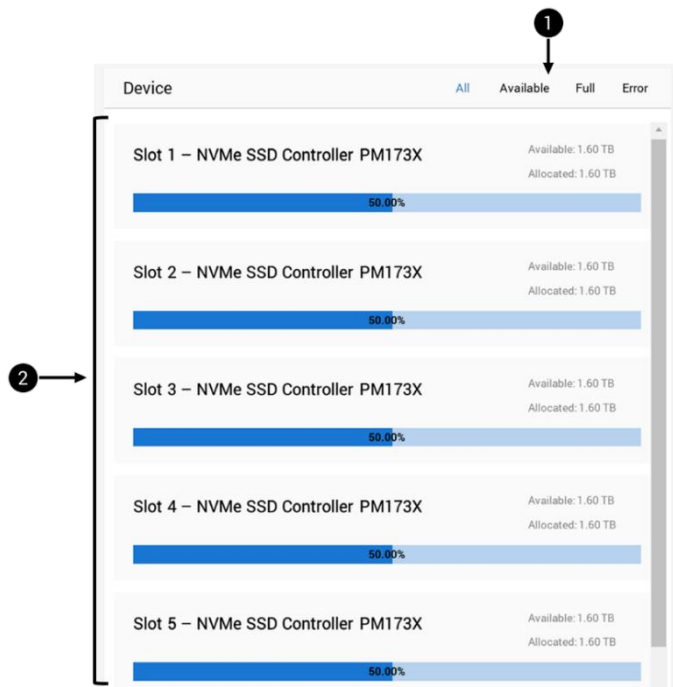
## 2.1 Overview

The Overview page sorts out the basic performance data of the FALCON 5208 GUI system in various charts and graphs.



## 2.1.1 Device

The Device panel provides device list and capacity information. Users can check the capacity usage of each SSD here. The tabs on the top right of the panel helps to filter the devices by different criteria for quick search.



1. Tabs:

Sort SSDs that meet different criteria.

2. Device list:

List of all SSDs installed in the Falcon 5208 system.



**All** = list all devices

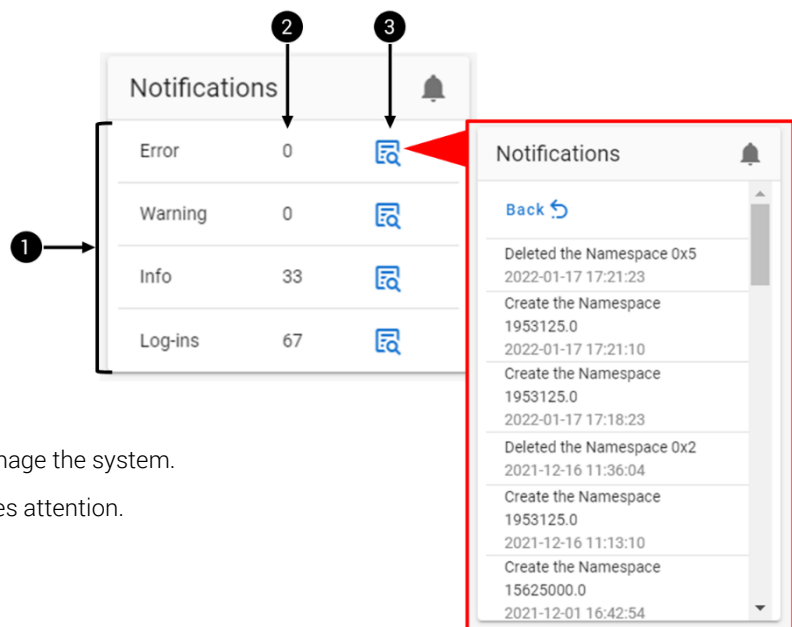
**Available** = devices with allocated NVM capacity <95%

**Full** = devices with allocated NVM capacity >95%

**Error** = devices with error

## 2.1.2 Notifications

The Notification panel shows the system notifications categorized by severity



**Error:** highest severity, events that may damage the system.

**Warning:** moderate severity, events that requires attention.

**Info:** regular system events.

**Log-ins:** user account related activities.

1. Categories:

Notification categories.

2. Log counts:


The number of logs under the category.

3. View button:

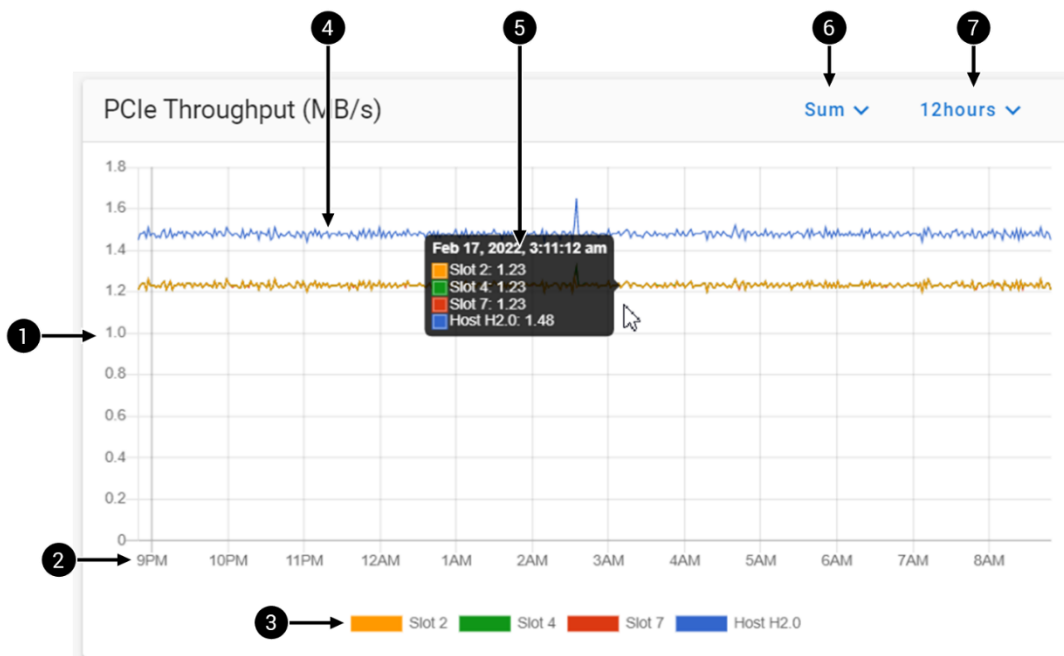
View detailed logs.

## 2.1.3 Thermal(°C)

The Thermal chart displays the average temperature of each component (in °C) in the chassis is displayed.

Thermal 	
Drawer Board	28 °C
Drawer Device Avg.	41 °C
Drawer PCIe Switch	62 °C

## 2.1.4 PCIe Throughput (MB/s)



1. Throughput rate:	Throughput rate scale in MB/s, the scale will change as throughput changes.
2. Time:	Times scale in hours.
3. PCIe slots:	List all the device slots. Every slot has a unique color indicator.
4. Throughput curve:	The curve of PCIe throughput of each slot, distinguished by the color.
5. Instantaneous throughput:	Displays throughput of each device at a specific time point. Move the mouse over the curve to see this menu.
6. Traffics:	Select traffic types to display on the throughput graph. (Ingress, Egress, or Sum)
7. Display period:	Select display period. (Past 1, 12, 24, or 72 hours)



## 2.2 Resource Management

There are two tabs under the resource management page. The host tab is a view of hosts, and the device tab is a view of devices. Most actions could only be done in the device tab, such as virtual function management and namespace management.

### 2.2.1 Host View

Host # ↑	Assigned Functions	Total Capacity	Link Capability (Curr/Max)	NVMe List
H1.0	32	10.43 TB	G4x8/G4x8	
H2.0	32	7.52 TB	G4x8/G4x8	
H3.0	32		G4x8/G4x8	
H4.0	32	16.33 TB	G4x8/G4x8	

1. Host #:	The ID given to each host port.
2. Assigned functions:	Number of NVMe virtual functions assigned to the host.
3. Total capacity:	Sum of the NVMe capacity assigned to the host port.
4. Link capability:	Current link speed / max link speed of the host port.
5. NVMe list:	Go to NVMe list page.

Total capacity field will be blank when the NVM capacity provisioned to the host is 0.

### NVMe List

Serial Number	NBID	NVMe Capacity	Slot	VF #	Host Bus:Dev:Func
S5SHNGOR100149	0x1	700.00 GB	7	1	0.0.1
S5SHNGOR100149	0x6	1.00 GB	7	1	0.0.1
S5SHNGOR100149	0x7	1.00 GB	7	1	0.0.1
S5SHNGOR100149	0x8	1.00 GB	7	1	0.0.1
S5SHNGOR100149	0x9	1.00 GB	7	1	0.0.1
SSLBNCOR800191	0x2	1.00 TB	4	1	0.0.1
SSLBNCOR800191	0x4	100.00 GB	4	1	0.0.1
SSLBNCOR800191	0x6	100.00 GB	4	1	0.0.1
SSLBNCOR800191	0x7	1.00 GB	4	1	0.0.1
SSLBNCOR800191	0x8	100.00 GB	4	1	0.0.1


1. Host #:	Host ID.
2. Namespaces:	List of namespaces assigned to the host and basic namespace information.
3. Search bar:	Search specific namespaces.
4. Add capacity:	Add NVM capacity to the host.
5. Back:	Return to the host list.
6. Refresh:	Refresh the page.

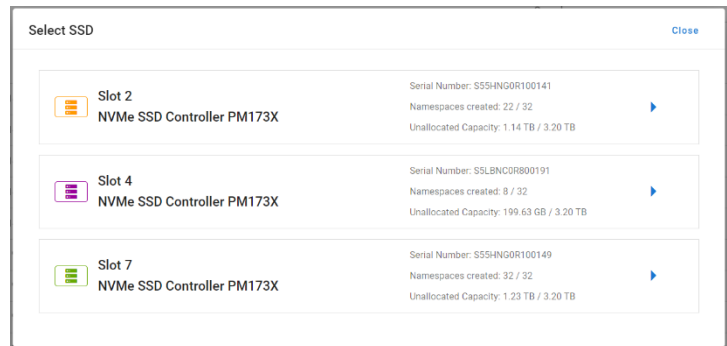
 Newly added capacity is indicated with  sign.

## Add Capacity

### 1. Select an SSD


Select an SSD to allocate NVM capacity from.

 It is recommended to select the SSDs with higher **unallocated capacity**.



### 2. Select a virtual function

Select the virtual function to attach namespace.


 If the virtual functions are associated to different virtual machines, make sure to select the right virtual function when adding capacity.

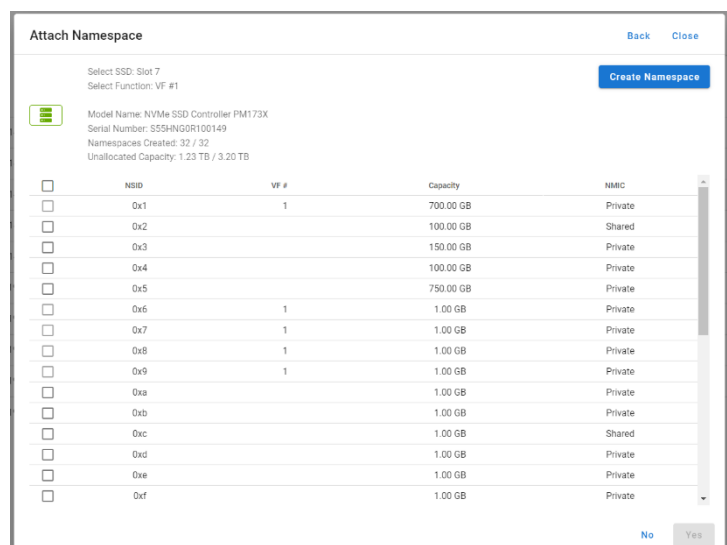
VF #	Host Bus:Dev:Func	Namespace Qty.	Total Capacity
1	0.0.1	5	704.00 GB
2	0.0.2	0	
3	0.0.3	0	

### 3. Select namespace(s) to attach

Select namespace(s) to attach.

Users can also create a new namespace to attach.

 See **Create Namespace** section for creating new namespace.



## 2.2.2 Device View

Slot #	Used VF	Namespace Qty	NVM Capacity (Used/Total)	Model Name	Link Capability (Cur/Max)	More
1	5	1	100.00 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
2	5	1	100.00 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
3	4	1	100.00 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
4	5	1	100.00 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
5	7	1	100.00 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
6	6	4	3.20 TB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
7	6	0	900.98 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮
8	6	2	900.98 GB / 3.20 TB	NVMe SSD Controller PM173X	04x8/04x8	⋮

1. Slot #:	ID given to each device slot.
2. Used VF:	Number of VFs assigned to hosts. (Maximum 32 VFs)
3. Namespace Qty.:	Number of namespaces created.
4. NVM Capacity:	NVM capacity allocated to namespaces / total NVM capacity of the SSD.
5. Model name:	Model name of the device.
6. Link capability:	Current link of the device / max link capability of the slot.
7. More:	Go to the device management page. (See <b>Device Management Page</b> for details.)

## Device Management Page

**Slot 1 Information**

Model	NVMe SSD Controller PM173X
Serial Number	SSLBNC0R800150
Available / Total NVM Capacity	3.10 TB / 3.20 TB
Used NVM Capacity	100.00 GB (Private - 100.00 GB/ Shared - 0 MB)
Created Namespace	1 / 32
Used VF	5
Temp.	43 °C
Health	Good

**VF Assignment Information** VF Management

Host #	VF(s) Assigned	VF(s) with namespace	Assigned Capacity (Private/ Shared)	More
H1.0	1	0	0 MB / 0 MB	⋮
H1.1	0	0	0 MB / 0 MB	⋮
H1.2	1	0	0 MB / 0 MB	⋮
H1.3	1	0	0 MB / 0 MB	⋮
H2.0	2	1	100.00 GB / 0 MB	⋮

**Detailed Information**

Firmware Version	EPV0CJ5Q
PCI Vendor/Subsystem ID	Samsung Electronics Co Ltd
IEEE OUI Identifier	9528
Available Spare	100 %
Available Spare Threshold	10
Composite Temperature	43
Controller Busy Time	0
Critical Warning	0

**Namespace Information** Format Namespace   Modify NMIC   Create Namespace

NSID	Status	VF #	Capacity	NMIC	Action
0x1	Attached	5	100.00 GB	Private	⋮

1. Slot information:	ID given to each device slot.
2. Detailed information:	Number of VFs assigned to hosts. (Maximum 32 VFs)
3. VF assignment information:	Number of namespaces created.
4. Namespace information:	NVM capacity allocated to namespaces / total NVM capacity of the SSD.
5. Refresh:	Model name of the device.

## VF assignment information

The screenshot shows a table titled "VF Assignment Information" with a "VF Management" button. The table has five columns: "Host # ↑", "VF(s) Assigned", "VF(s) with namespace", "Assigned Capacity (Private/ Shared)", and "More". There are five rows of data. Callout 1 points to the "Host # ↑" header, 2 to "VF(s) Assigned", 3 to "VF(s) with namespace", 4 to "Assigned Capacity (Private/ Shared)", 5 to the "More" column, and 6 to the "VF Management" button.

Host # ↑	VF(s) Assigned	VF(s) with namespace	Assigned Capacity (Private/ Shared)	More
H1.0	1	0	0 MB / 0 MB	⌵
H1.1	0	0	0 MB / 0 MB	⌵
H1.2	1	0	0 MB / 0 MB	⌵
H1.3	1	0	0 MB / 0 MB	⌵
H2.0	2	1	100.00 GB / 0 MB	⌵

1. Host #:	List of hosts.
2. VF assigned:	Number of virtual functions assigned to the host.
3. VF with namespace:	Number virtual functions with namespace(s) attached.
4. Assigned capacity:	NVM capacity assigned to the host. (Private and shared capacity)
5. More:	List of virtual functions assigned to the host and information.
6. VF management:	See <b>Virtual Function Management</b> section for details. (P. 9)

# Virtual Function Management

The screenshot shows the 'Virtual Function Management' interface for a host named 'SSD'. It includes a 'Slot 1 Information' section, a 'Virtual Functions' table, and a 'Namespace Information' sidebar. Callout 1 points to the slot information, callout 2 to the VF table, callout 3 to an 'Unassign' button, callout 4 to the namespace sidebar, and callout 5 to a 'Back' button. Two red boxes highlight the 'Assign' dialog and the 'Unassign VF' warning dialog.

VF #	Assign to	Host Bus/Dev/Func	Namespace Attached	Action
1	H1.0	No connection	No	Unassign
2			No	Unassign
3	H1.2	No connection	No	Unassign
4	H1.3	No connection	No	Unassign
5	H2.0	No connection	No	Unassign
6	H2.0	No connection	Yes	Unassign
7			No	Unassign

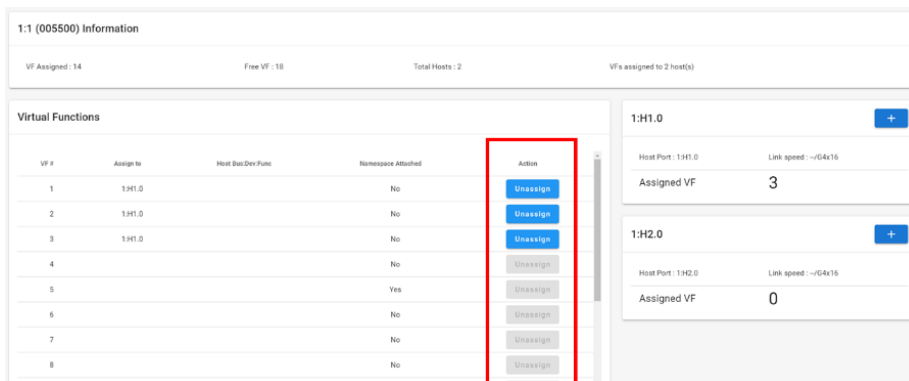
1. Slot information:	Basic usage information of the SSD on the slot.
2. Virtual functions:	List of all virtual functions and information.
3. Unassign:	Unassign the virtual function.
4. Namespace information:	List of hosts and basic VF usage information.
5. Back:	Go back to <b>Device Management</b> .

 See **Appendix-Assign / Unassign Virtual Functions** for operations. (P. 10)

# Appendix- Assign / Unassign Virtual Functions

All the NVMe virtual functions should have been preassigned to the hosts at the initial setting of Falcon 5208 system. Users could still re-assign the virtual functions. However, the virtual functions should be unassigned from its current host before it can be assigned to a different host. It is recommended to reboot the hosts when there is any virtual function added or removed.

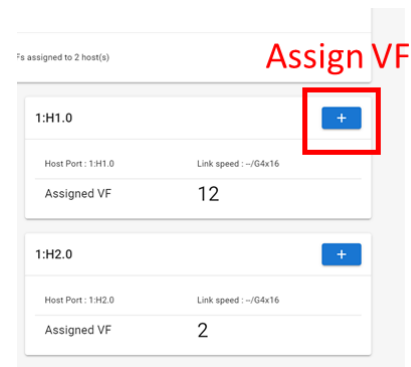
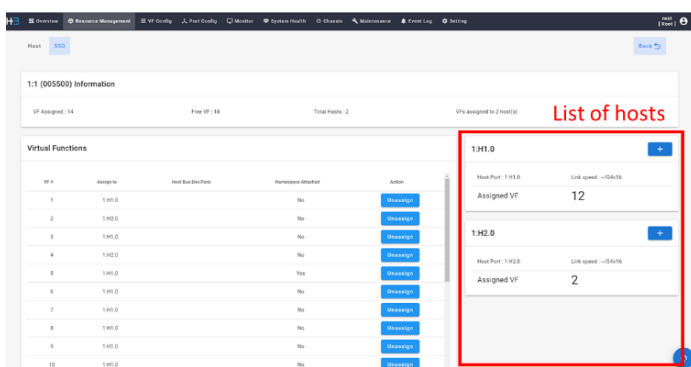
## Unassign Virtual Function



Click the “Unassign” button to unassign the virtual function from the host.

- When unassigning VFs with namespace attached, the VF will be unassigned, and the namespaces will be detached automatically. The data stored on the namespace are not erased, users can still find the namespace under **Namespace Management** of the SSD.

## Assign Virtual Function



Select the host that you would like to assign virtual function to.

Click the “+” button of the host, the system will assign a vacant virtual function to the host automatically.

- The system will automatically assign the first available virtual function in VF number order. E.g., If VF 2 and 3 are both free, the system will prioritize VF2 when assigning.

- A virtual function can only be assigned to one host at a time.

# Namespace Management

Namespace Information						
1 NSID	2 Status	3 VF #	4 Capacity	5 NMIC	6 Action	
0x1	Not Attached		100.00 GB	Private	✗	
0x2	Attached	3	1.00 TB	Shared	✗	

Buttons above the table: 7. Format Namespace, 8. Modify NMIC, 9. Create Namespace

1. NSID:	Basic usage information of the SSD on the slot.
2. Status:	Status of the namespace. See <b>Appendix-Attach / Detach Namespace</b> . (P. 13)
3. VF #:	NVMe virtual function(s) that the namespace is attached to.
4. Capacity:	NVM capacity allocated to the namespace.
5. NMIC:	Sharing capability of the namespace. (Private or shared)
6. Action	Delete the namespace.
7. Format namespace:	See <b>Format Namespace</b> section for details. (P. 11)
8. Modify NMIC:	See <b>Modify NMIC</b> section for details. (P. 12)
9. Create namespace:	See <b>Create Namespace</b> section for details. (P. 12)

## Format Namespace

Format	Regular formatting.
User data erase	Clear all user data then format.
Cryptographic erase	Sanitize the media encryption key for the target data.

**Format Namespace**

To protect your data, Format is disabled for the namespaces attaching to virtual function.

NSID	Capacity	Option			
0x1	700.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x2	100.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x3	150.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x4	100.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x5	750.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x6	1.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format
0x7	1.00 GB	<input type="radio"/> Format	<input type="radio"/> User data erase	<input type="radio"/> Cryptographic erase	<input checked="" type="radio"/> Do not Format

No Yes


Cryptographic erase will make recovery of the decrypted target data is infeasible.

## Modify NMIC (NVMe multi-path I/O and sharing capability)

Private	Private namespace can only be attached to one virtual function.
Shared	Shared namespace can be attached to multiple virtual functions simultaneously.

The screenshot shows the 'Modify NMIC' interface. At the top, there is a warning message: 'To protect your data, Multipath I/O and Sharing Capabilities (NMIC) modification is disabled for the namespaces attaching to more than one virtual functions.' Below this is a table with columns: NSID, Capacity, NMIC, and Option. The table lists namespaces 0x1 through 0x7 with their respective capacities and NMIC settings. The 'Option' column has radio buttons for 'Private' and 'Shared'.


NSID	Capacity	NMIC	Option
0x1	700.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared
0x2	100.00 GB	Shared	<input type="radio"/> Private <input checked="" type="radio"/> Shared
0x3	150.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared
0x4	100.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared
0x5	750.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared
0x6	1.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared
0x7	1.00 GB	Private	<input checked="" type="radio"/> Private <input type="radio"/> Shared

 To prevent data loss on the host side, NMIC modification is disabled for namespaces that have been attached to more than one virtual function.

## Create Namespace

Create a new namespace with customized NVM capacity and NMIC property.

The screenshot shows the 'Create Namespace' interface. It has three main sections: 'Unallocated Capacity' with a value of 1.14 TB, 'Capacity' with a text input '1' and a dropdown menu set to 'TB', and 'Multipath I/O and Sharing Capabilities (NMIC)' with a dropdown menu set to 'Private'. At the bottom right, there are 'No' and 'Yes' buttons.

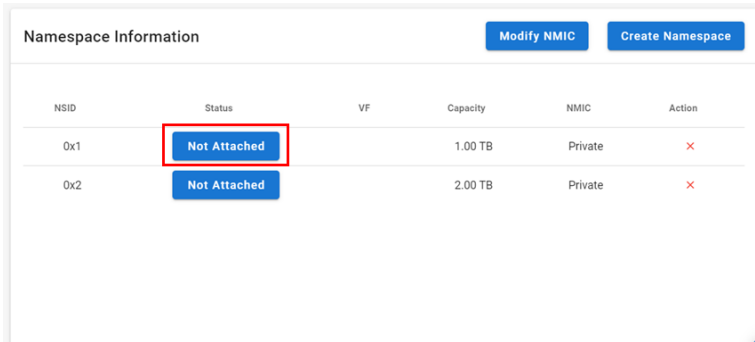
 Maximum 32 namespaces can be created in one SSD.



# Appendix- Attach / Detach Namespace

Users can also attach namespace from **Host view-NVMe list page** (see **Add Capacity** section P. 6). However, detaching namespace can only be done under **Device Management** page.

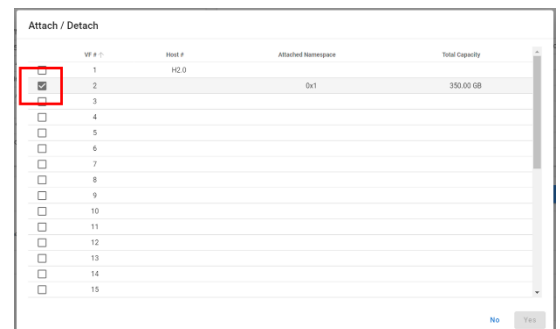
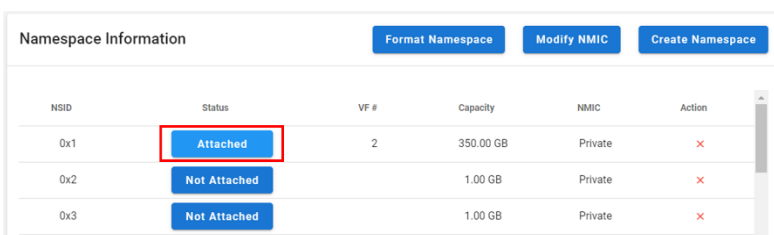
## Attach Namespace



Click the **Status** of the namespace.  
Select the virtual function(s) to attach to, then click "Yes".

- i** Namespaces that have been attached to a virtual function would show "Attached". However, if the namespace is a shared namespace, users can still click the "attached" button and attach the namespace to more virtual functions.
- i** When attaching namespaces, it is recommended to find the virtual functions that are assigned to the desired host machine(s).

## Detach Namespace

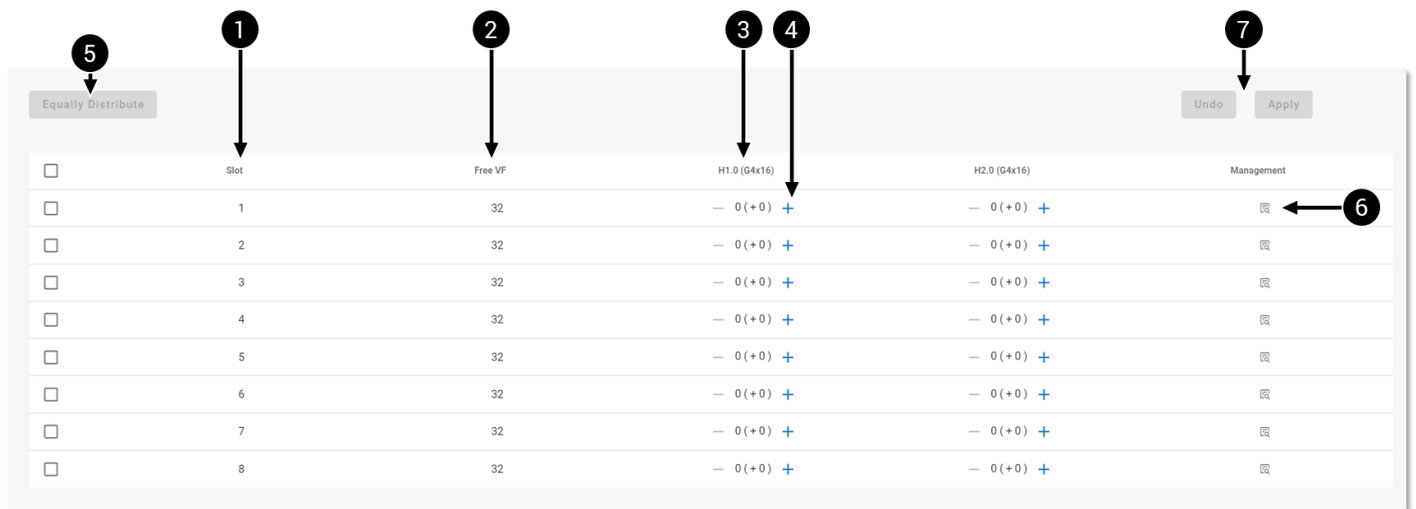


Click the **Status** of the attached namespace.  
Uncheck the virtual function(s) to detach from, then click "Yes".

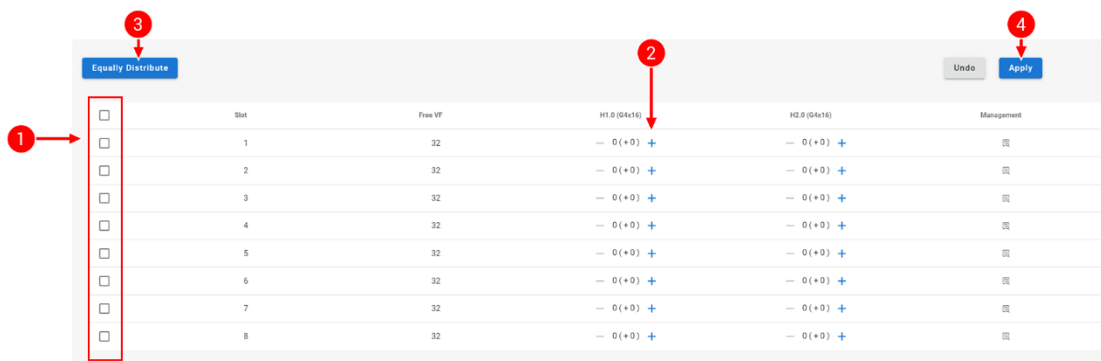
- i** Users can detach namespace from multiple virtual functions at a time by unchecking multiple virtual functions.
- i** Please make sure that the host is not accessing the namespace when detaching. Accidentally detach a namespace may cause system error on the host side.

## 2.3 VF Config.


VF Config page allows users to perform system level virtual function assignment more efficiently.



1. Slot:	Device slot number.
2. Free VF:	The number of virtual functions that have not been assigned to any host.
3. Host port ID:	ID given to each host port.
4. - / + :	Adjust quantity of the virtual function.
5. Equally distribute:	Equally distribute all free virtual functions among all host ports.
6. Management:	Go to the <b>Virtual Function Management</b> page of the SSD.
7. Undo / Apply:	Undo or apply the virtual function assignment.

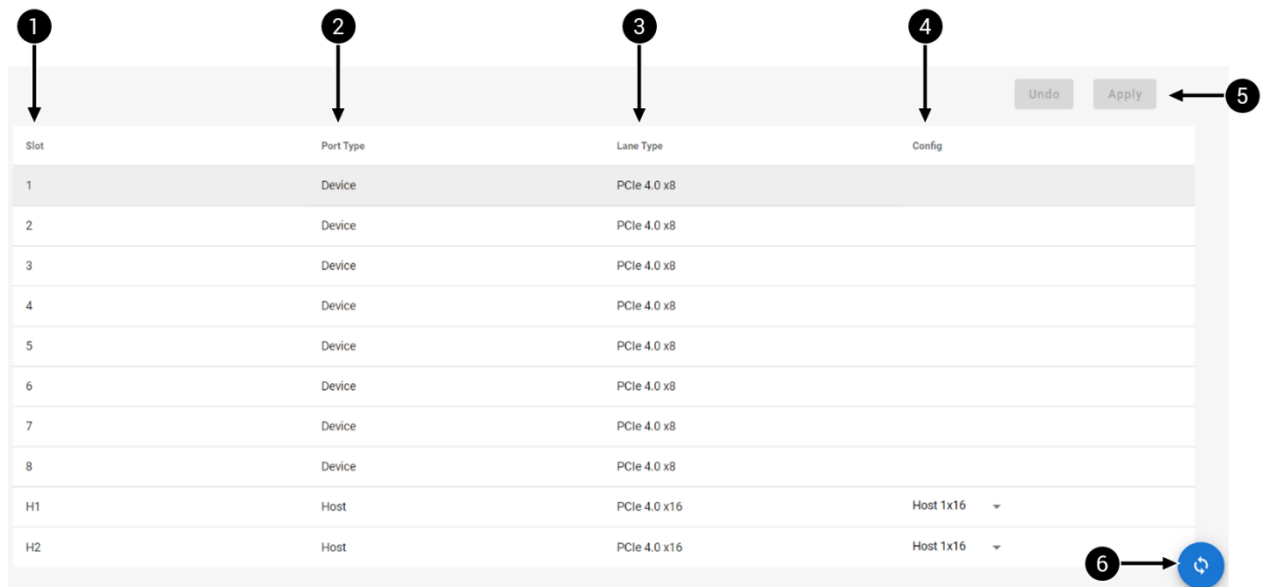


1. Select the SSDs to assign virtual functions from. (Unselected SSDs will not be included)
2. Adjust the number of virtual functions for each host port.
3. (Optional) Equally distribute all free virtual functions among all host ports.
4. Apply the virtual function assignment.

 When equally distributing virtual functions, there may be remaining free virtual functions when the number of host and virtual functions are not divisible.

## 2.4 Port Config.

Falcon 5208 provides user defined PCIe port configurations to support different requirement for host quantity. The two host ports are default to 16 lanes (PCIe 4.0). The lanes can be configured into 2x8 lanes or 4x 4lanes depending on the custom requirements.

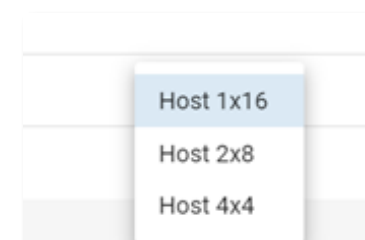
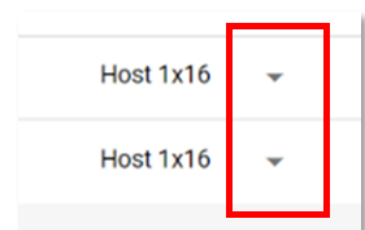


1. Slot:	The number given to each slot.
2. Port type:	PCIe port type. (Device or host port)
3. Lane type:	PCIe link of the port. (PCIe generation and lanes)
4. Config:	Configuration of the PCIe ports. (See <b>Port Bifurcation</b> section for details)
5. Undo / Apply:	Undo or apply port configurations.
6. Refresh:	Refresh the page.

### 2.4.1 Port Bifurcation

Only the host ports are configurable: port H1 and H2

- Click the drop-down arrow next to the configuration setting.
- Select a desired configuration.
- Click "**Apply**" at the top of the page.



After port bifurcation, the bifurcated host ports will be given a sub-ID.

E.g., H1 is bifurcated into 2x8, there will be two new host ports with ID H1.0 and H1.1 respectively.

## 2.5 Monitor

Slot	ModelName	Port Type	Ingress	Egress
1	NVMe SSD Controller PM173X	Device	469 KB	723 KB
2	NVMe SSD Controller PM173X	Device	470 KB	711 KB
3	NVMe SSD Controller PM173X	Device	486 KB	710 KB
4	NVMe SSD Controller PM173X	Device	475 KB	711 KB
5	NVMe SSD Controller PM173X	Device	483 KB	721 KB
6	NVMe SSD Controller PM173X	Device	465 KB	713 KB
7	NVMe SSD Controller PM173X	Device	484 KB	721 KB
8	NVMe SSD Controller PM173X	Device	481 KB	717 KB
H1.0		Host	n/a	n/a
H1.1		Host	n/a	n/a
H1.2		Host	n/a	n/a
H1.3		Host	n/a	n/a
H2.0		Host	n/a	n/a

1. Slot:	The number given to each slot.
2. Model name:	The model name of the SSD installed to the slot.
3. Port type:	PCIe Port type. (Device or host port)
4. Ingress traffic:	PCIe switch to device traffics.
5. Egress traffic:	Device to PCIe switch traffics.



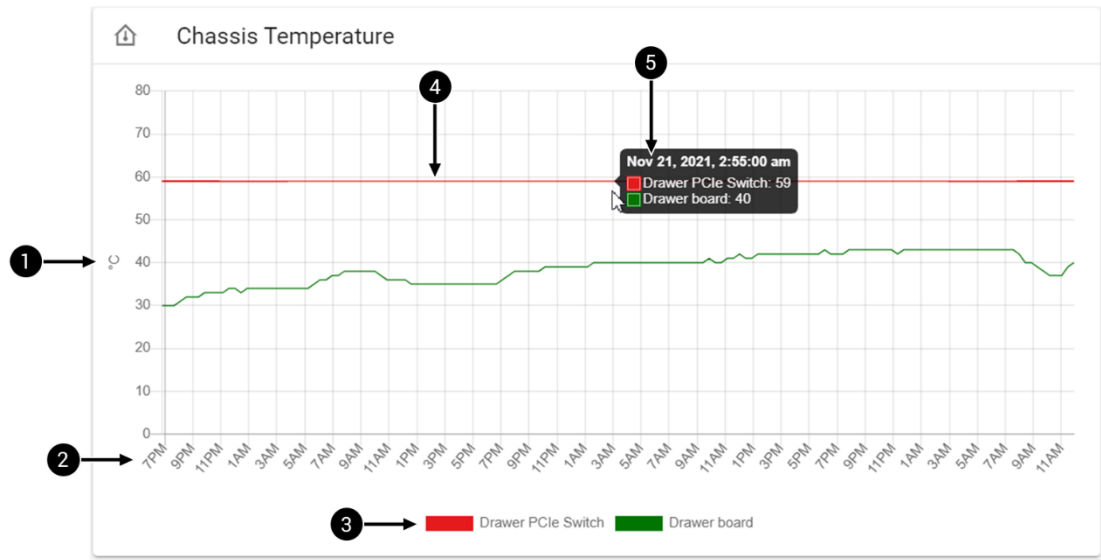
"n/a" will show when there is no link or when the data cannot be obtained.

Try refreshing the page when the data are not displayed properly.

## 2.6 System Health

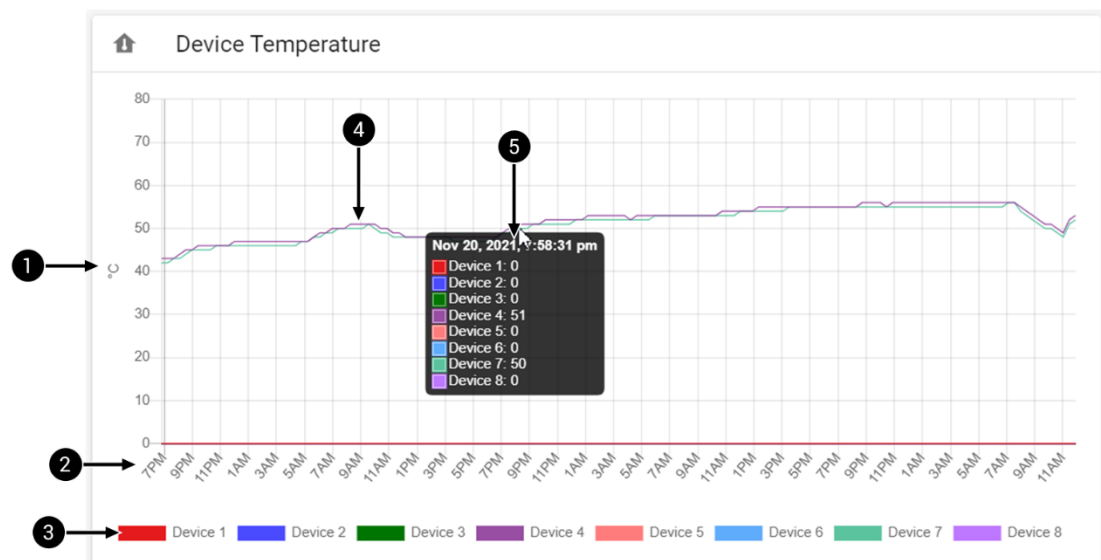
The System Health page provides consolidated health information of the chassis in graphs. Including Chassis Temperature, Device Temperature, Power Consumption, and Fan Speed.

### 2.6.1 Chassis Temperature



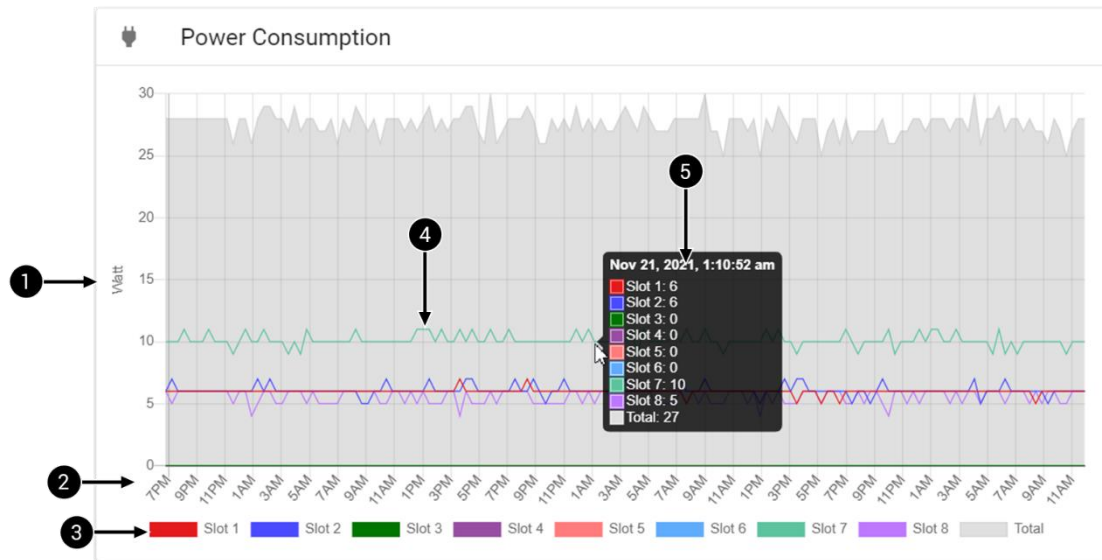
1. Temperature:	Temperature scale in degree Celsius.
2. Time:	Time scale in hours.
3. Components:	Chassis components, each component is given a color tag.
4. Temperature curves:	Temperature curves of each component, distinguished by color.
5. Instantaneous temperature:	Move the cursor over the curves to see the instantaneous temperature of the components.

### 2.6.2 Device Temperature



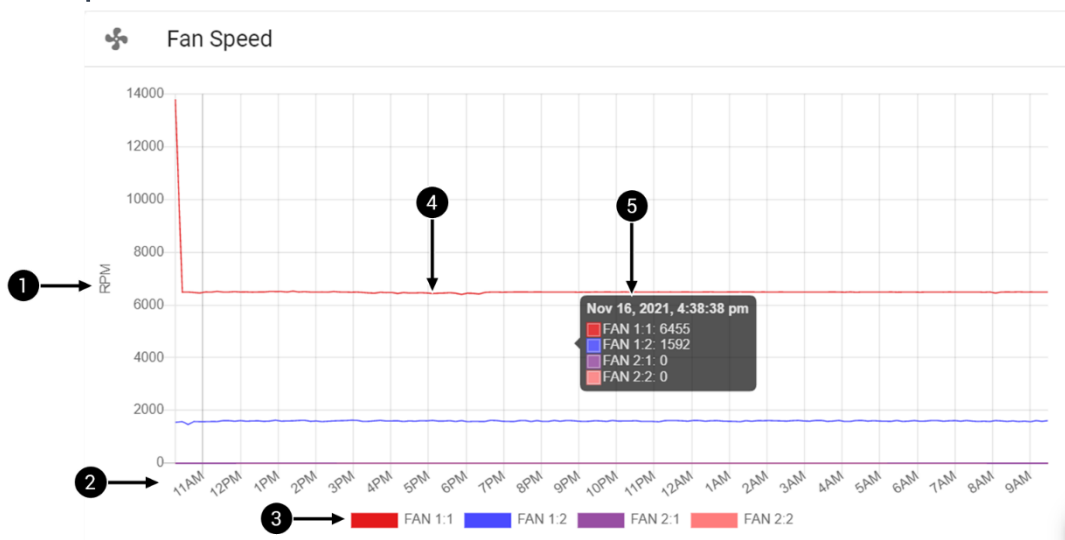
1. Temperature:	Temperature scale in degree Celsius.
2. Time:	Time scale in hours.
3. Components:	Devices, each device is given a color tag.
4. Temperature curves:	Temperature curves of each device, distinguished by color.
5. Instantaneous temperature:	Move the cursor over the curves to see instantaneous temperature of devices.

## 2.6.3 Power Consumption



1. Power consumption:	Power consumption scale in Watt.
2. Time:	Time scale in hours.
3. Slot:	Device slots, each slot is given a color tag.
4. Consumption curves:	Power consumption curves of each device, distinguished by color. (Gray=total)
5. Instantaneous consumption:	Move the cursor over the curves to see instantaneous power consumption.

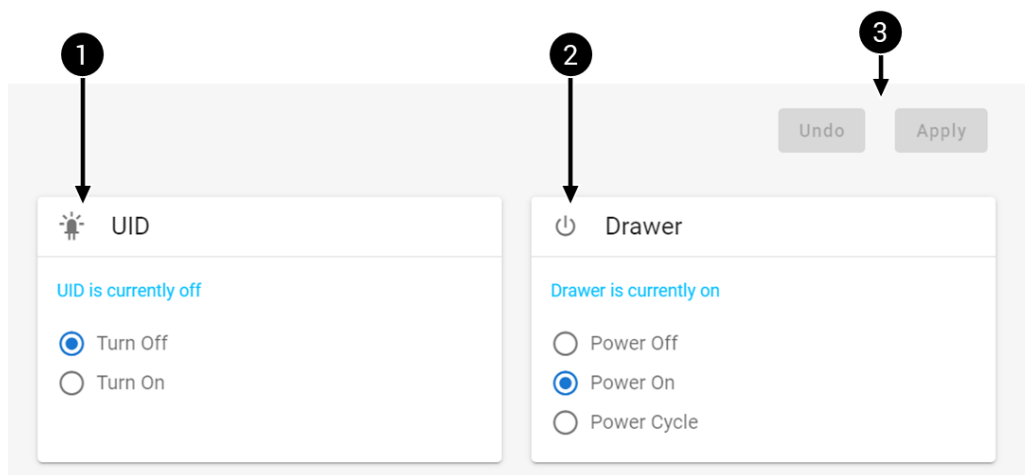
## 2.6.4 Fan Speed



1. Temperature:	Fan speed scale in RPM.
2. Time:	Time scale in hours.
3. Components:	Fans, each fan is given a color tag.
4. Temperature curves:	Fan speed curves of each device, distinguished by color.
5. Instantaneous temperature:	Move the cursor over the curves to see instantaneous fan speed.

## 2.7 Chassis

In the Chassis page, users can control the power of chassis UID, and the power of the GPU drawers separately.



1. UID power:	Control chassis UID.
2. Drawer 1 power:	Control the power of drawer 1.
3. Apply:	Apply power settings.

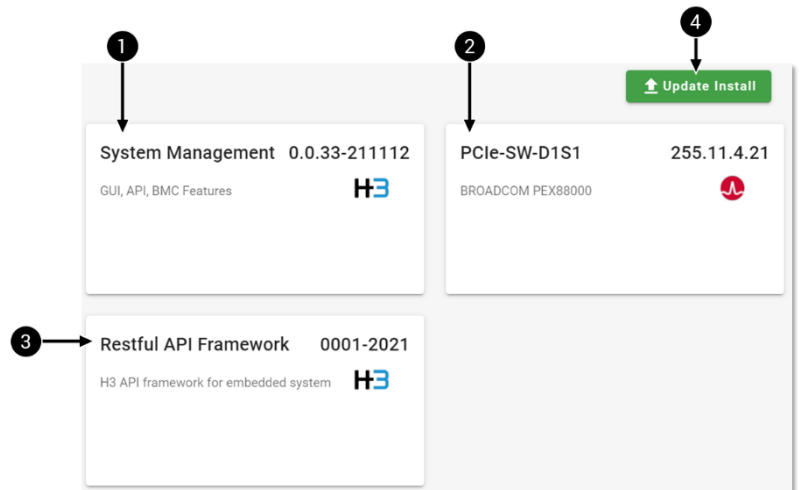
**i** The LCD will be flashing when the UID is turned on.

**i** When the drawer is turned off, other components in the chassis remains working.

## 2.8 Maintenance

View the current firmware version and update firmware from the Maintenance page.

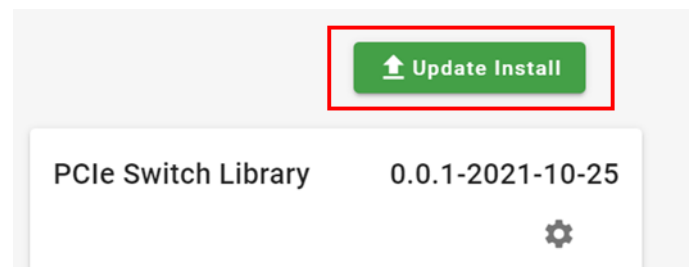
1. System Manager firmware information
2. PCIe Switch firmware information
3. API framework information
4. See Firmware Update section for details



### 2.8.1 Firmware Update


#### Update Process

1. Click **Update Install** button.
2. Upload the firmware **.img** file.
3. Go through the confirmation process.



 Users can download the latest firmware from H3 Platform official website, under **Knowledge Base - Download**.

 The system will reboot automatically when update is finished.

 Do not turn off Falcon 5208 system during firmware update, it may cause system error.



## 2.9 Event Log

In the Event Log page, users will find consolidated logs. The logs can be filtered by severity level or the by using search bar.

#	Date	Time	Level	IP	Content
1	2022-01-13	16:36:27	Info	10.0.20.13	login as admin suceesfully.
2	2022-01-13	16:33:35	Info	10.0.20.13	login as admin suceesfully.
3	2022-01-13	14:36:55	Info	10.0.21.57	login as admin suceesfully.
4	2022-01-12	10:13:57	Info	10.0.21.77	login as admin suceesfully.
5	2022-01-10	15:07:36	Info	10.0.21.77	login as admin suceesfully.
6	2022-01-10	15:02:05	Info	10.0.21.77	login as admin suceesfully.
7	2022-01-10	14:44:51	Info	10.0.21.57	login as admin suceesfully.
8	2022-01-10	14:02:06	Info	10.0.21.77	login as admin suceesfully.
9	2021-12-27	18:29:21	Info	10.0.21.77	login as admin suceesfully.
10	2021-12-27	11:07:03	Info	10.0.21.77	login as admin suceesfully.
11	2021-12-27	11:00:33	Info	10.0.21.77	login as admin suceesfully.

1. Search bar:	Search for specific logs.
2. Log categories:	Filter logs by categories.
3. Logs:	Event logs order from newest to oldest.
4. Download:	Download all event logs in <b>.csv</b> format.
5. Refresh:	Refresh the logs.
6. Pages:	Select pages of logs.

Logs in bold text are unread logs.

**Error:** highest severity, events that may damage the system.

**Warning:** moderate severity, events that requires attention.

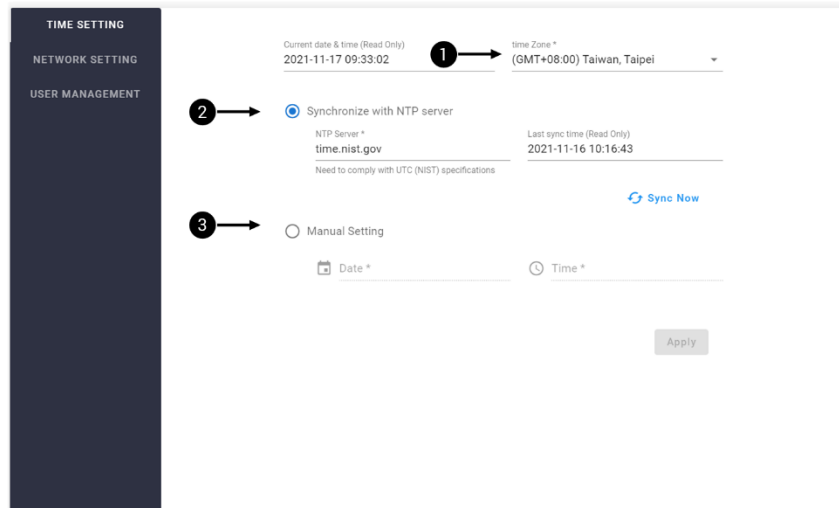
**Info:** regular system events.

**Log-ins:** user account related activities.

## 2.10 Settings


In Setting page, users can modify all the system settings, manage accounts and licenses. Functions including **time setting**, **network setting**, **user management**.

### 2.10.1 Time Setting

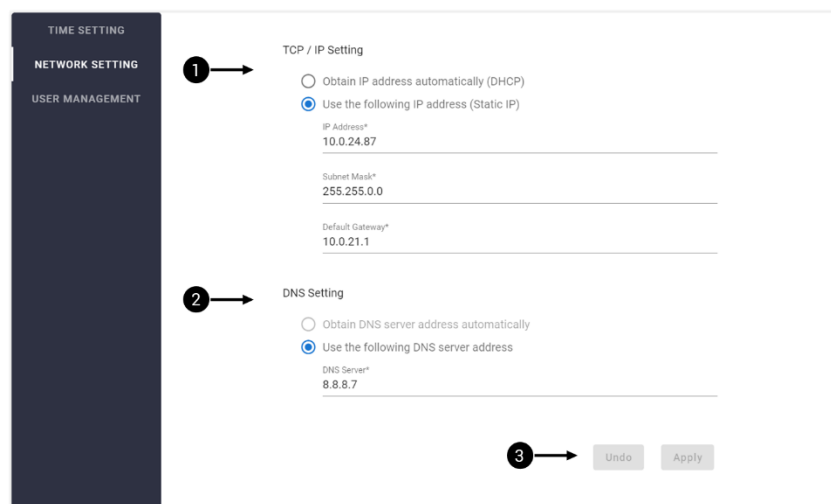


1. Time zone:	Set / modify system time zone.
2. Sync. with NTP server:	Sync the system with a NTP server. (Requires NTP server IP address)
3. Manual Setting:	Set / modify date and time with calendar tool.

 After modifying NTP server IP, please click “Sync Now”, the NTP server IP will be updated immediately.

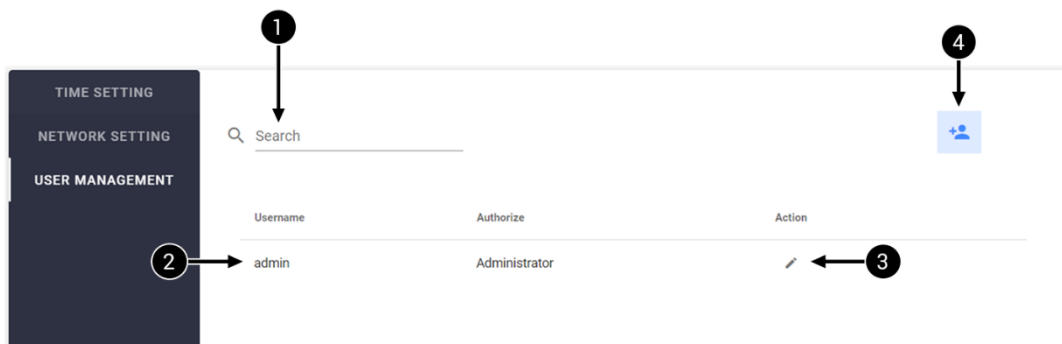
 Please click “Apply” after modifying time settings in order to keep the settings.

### 2.10.2 Network Setting



1. TCP/IP Setting:	<ul style="list-style-type: none"> <li>■ Obtain IP address automatically.</li> <li>■ Use static IP address. (Requires IP address, subnet mask, and default gateway)</li> </ul>
2. DNS Setting:	<ul style="list-style-type: none"> <li>■ Obtain DNS server address automatically.</li> <li>■ Use custom DNS server. (Requires DNS server address)</li> </ul>
3. Undo / Apply:	Undo or apply the new settings.

## 2.10.3 User Management



1. Search bar:	Search for specific user account.
2. User accounts:	Shows the username and authority of each account.
3. Action:	Edit user account.  Change password.  Delete user account.
4. Create account	Create new user account.

"admin" account cannot be deleted.

## User Roles and Authorities

	Admin	User_Admin	User	Guest
Read PCIe Resource	0	0	0	0
Read Chassis Info	0	0	0	0
Read System Logs	0	0	0	X
Manage PCIe Resource	0	0	0	X
Change Password	0	0	0	X
Read System Settings	0	0	X	X
Read Maintenance Info	0	0	X	X
Read Security Logs	0	0	X	X
User Account Management	0	0	X	X
Modify System Setting	0	0	X	X
Maintenance Operation	0	0	X	X
Premium License Setting	0	X	X	X