ADVANTECH

Enabling an Intelligent Planet

FWA-5082 QSG

NSP, Alan.Ku

07/08th , 2025

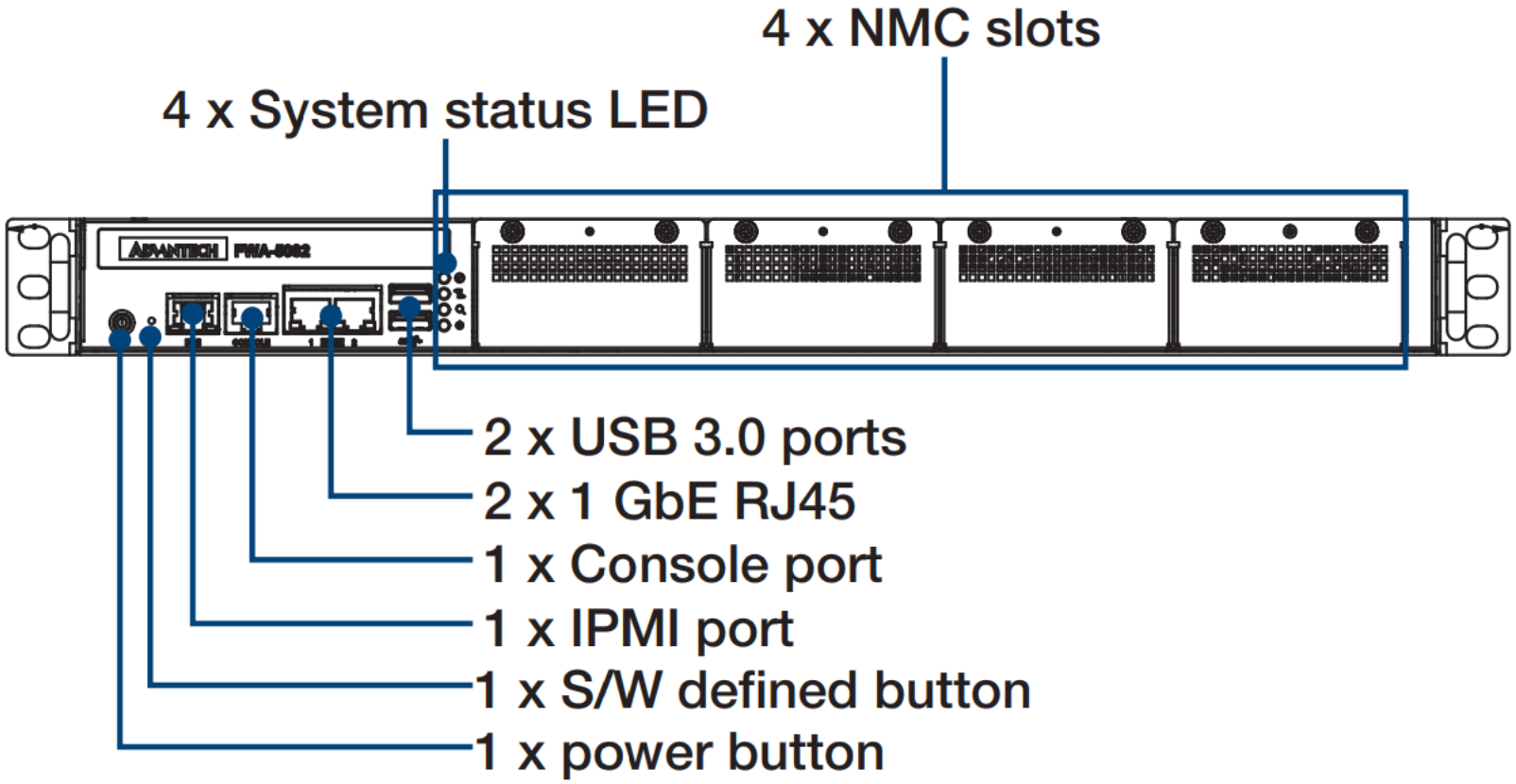
History

Version	Date	Handled by	Note
V01	2025/07/08	Alan.Ku	Release version

Agenda

- ❑ Server Front Side
- ❑ Server Rear Side
- ❑ DIMMs Population
- ❑ Access the device via console
- ❑ WebUI Access
- ❑ OS installation

Server Front Side [1/4]- Overview



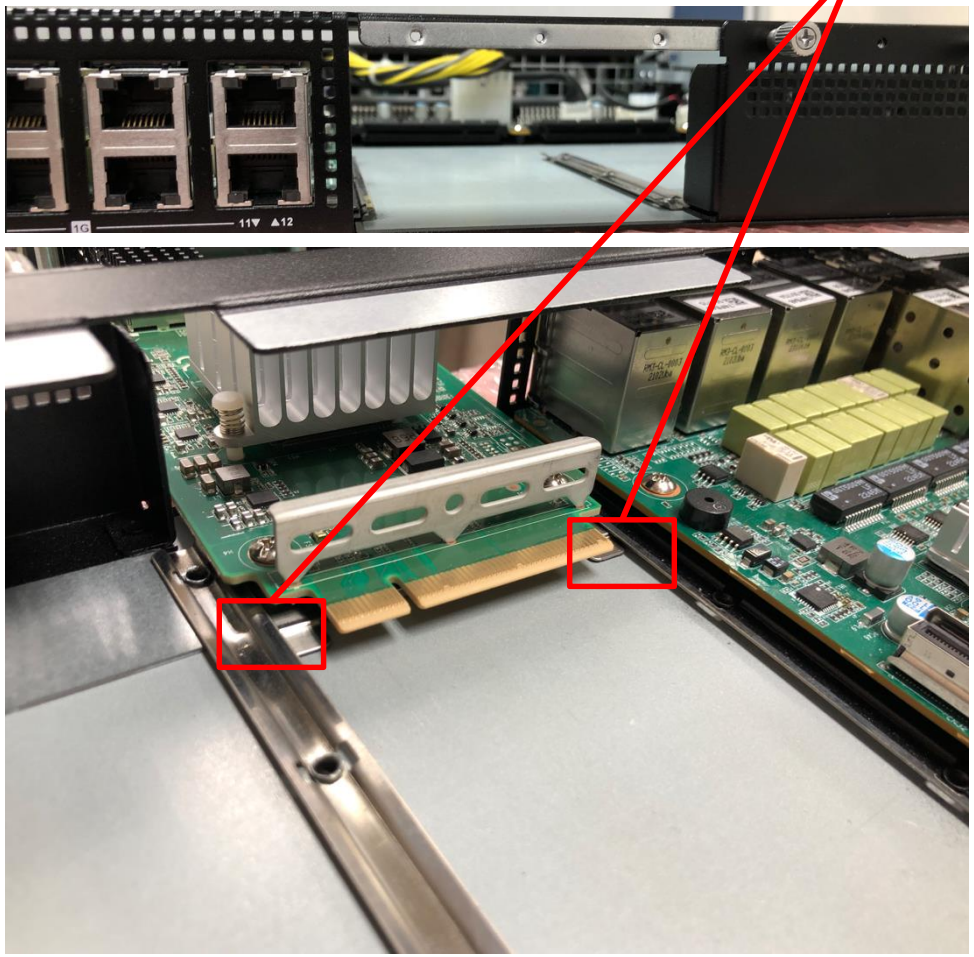
Server Front Side [2/4]- Status LEDs

Server Front Side [3/4]- NMC slots

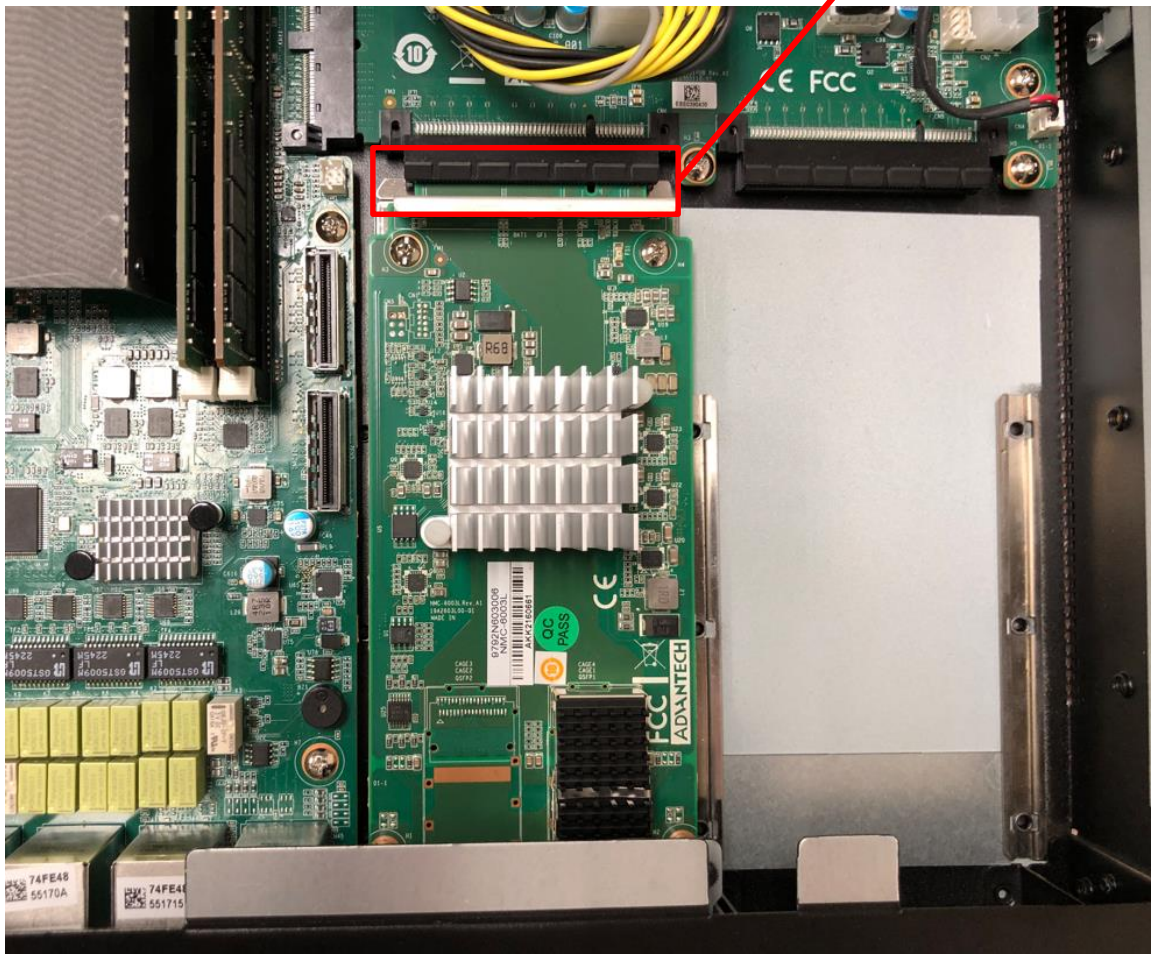
Lose screws

Server Front Side [4/4]- NMC modules

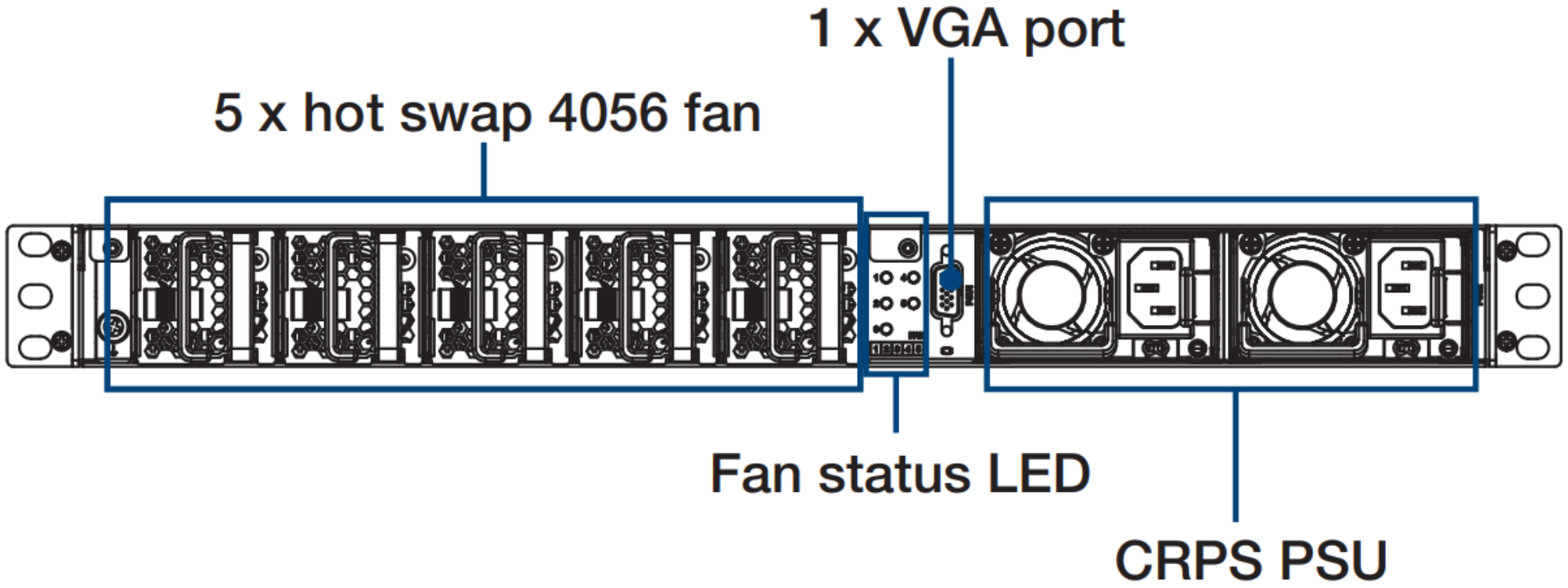
1. Align NMC module to slide trails



2. Push to the end



Server Rear Side [1/6]- Overview



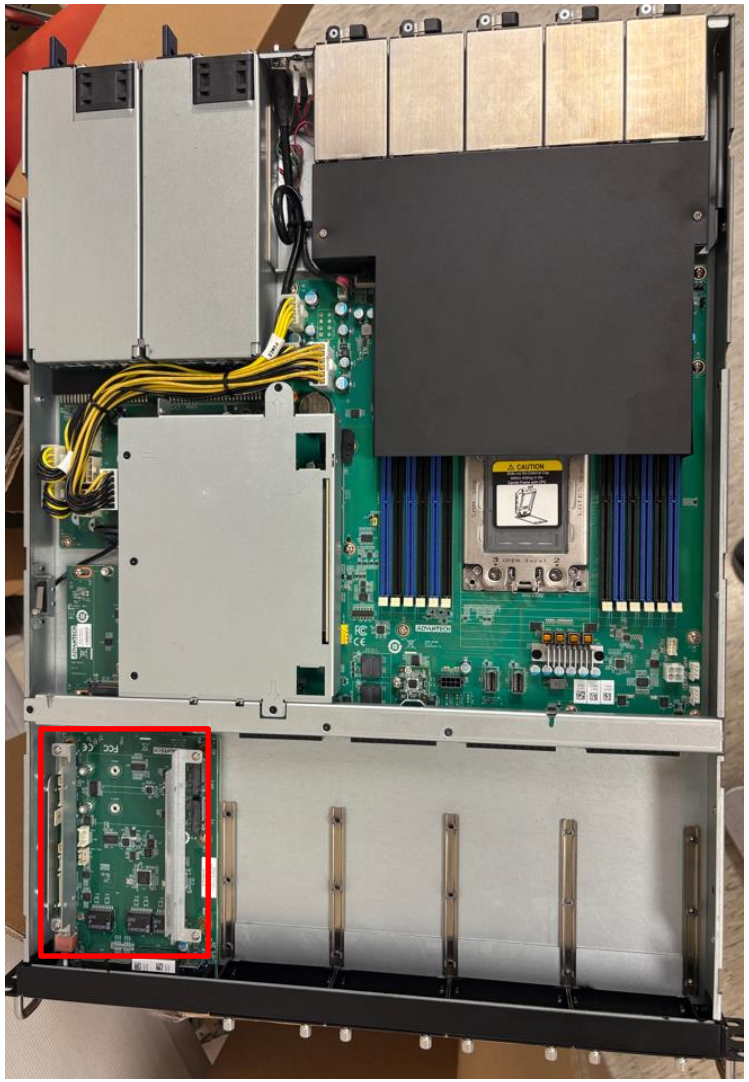
Server Rear Side [2/6]- Remove top cover

1. Remove all screw

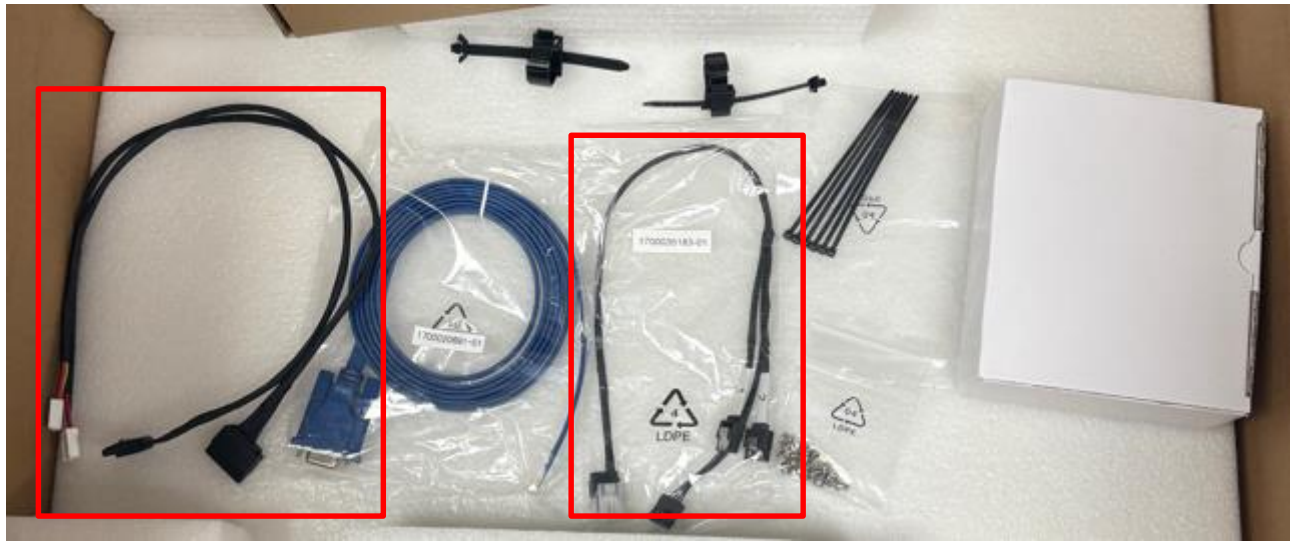
2. Push top cover backward

Server Rear Side [3/6]- Install 2.5’ HDD/SSD

1. Find disk holder.

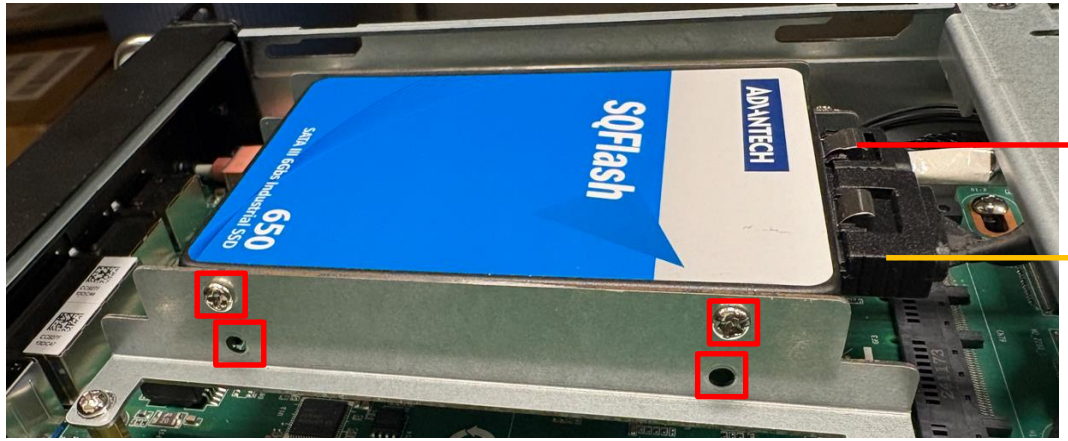


2. Find SATA cable and it power cable.

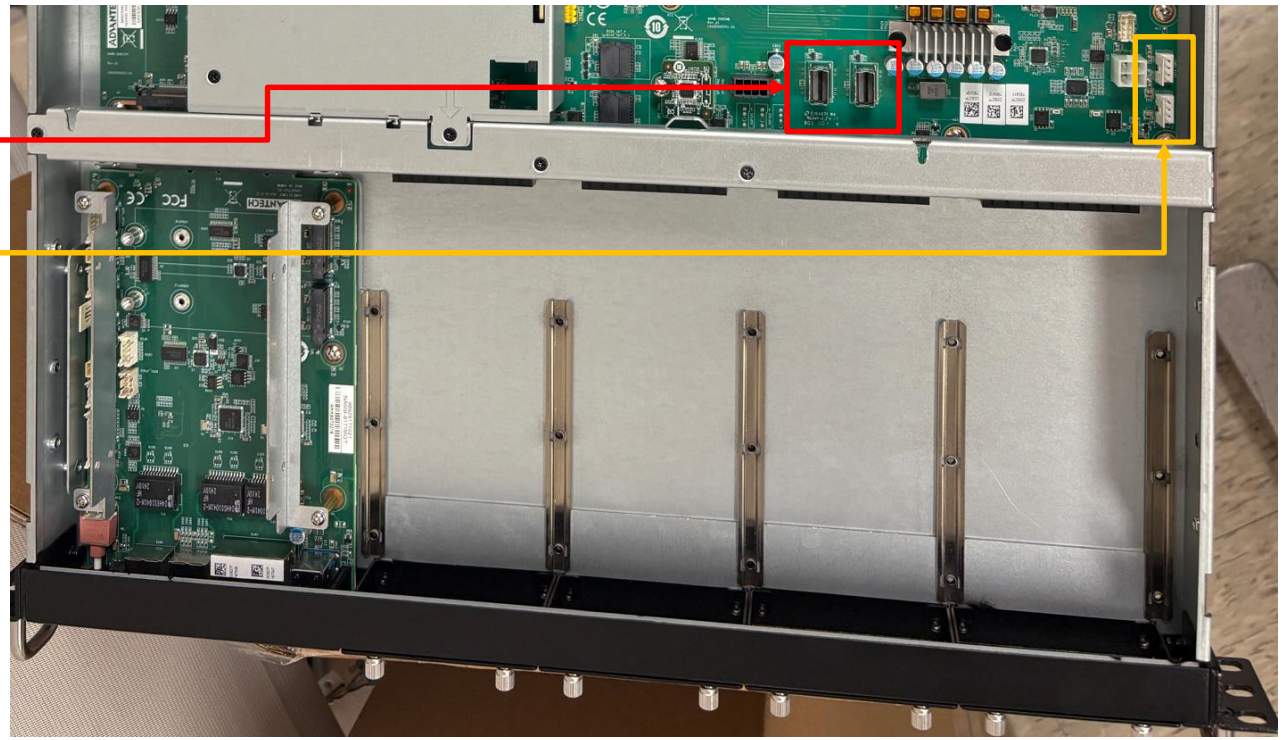


Server Rear Side [4/6]- Install 2.5’ HDD/SSD

3. Fit 2.5 inch disks in the holder.

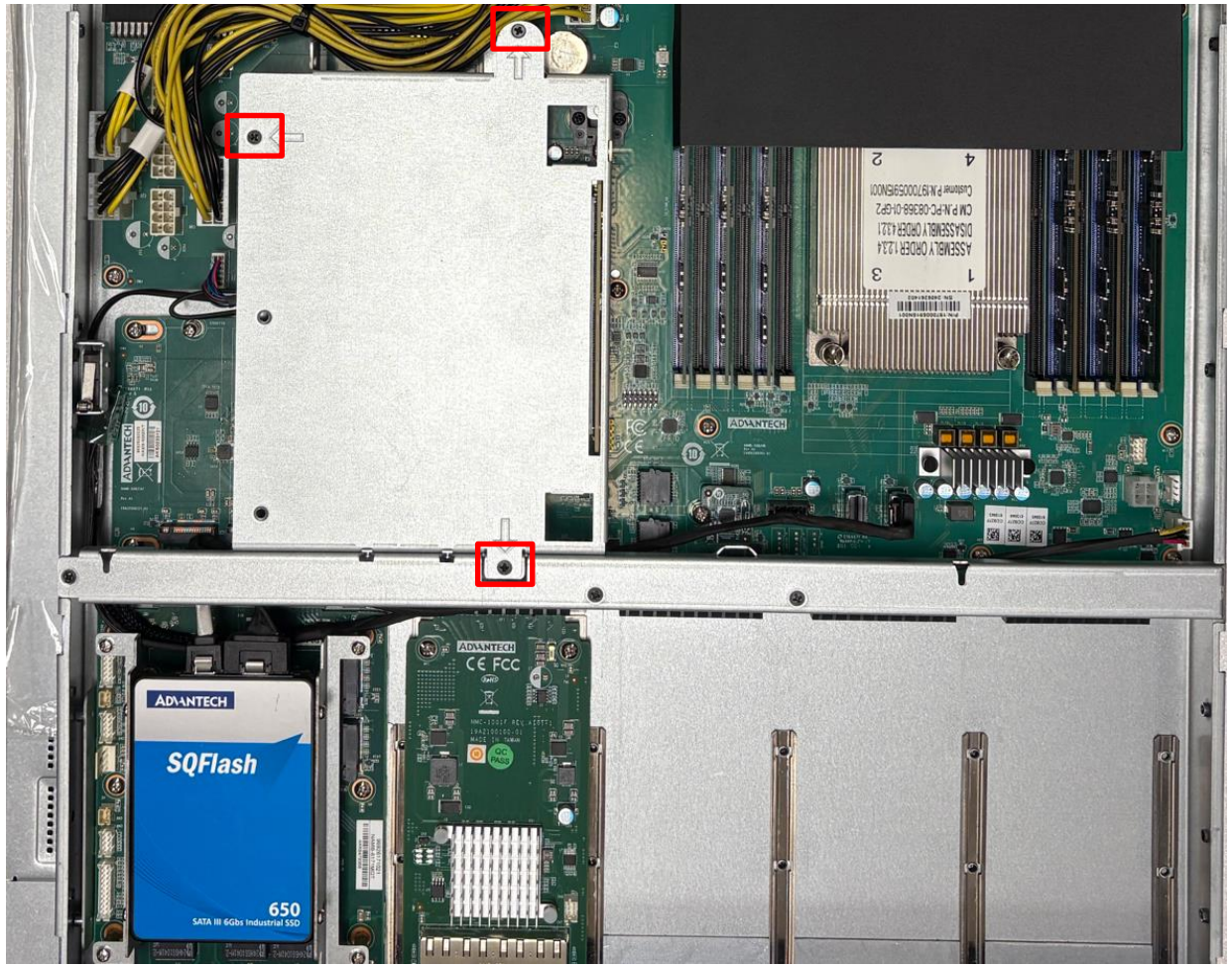


4. Plug cables to following connectors

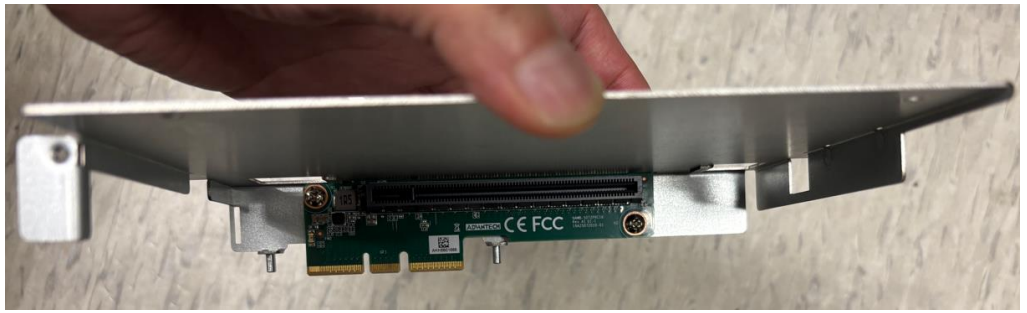


Server Rear Side [5/6]- PCIe Cage

1. Loose three screws from top.

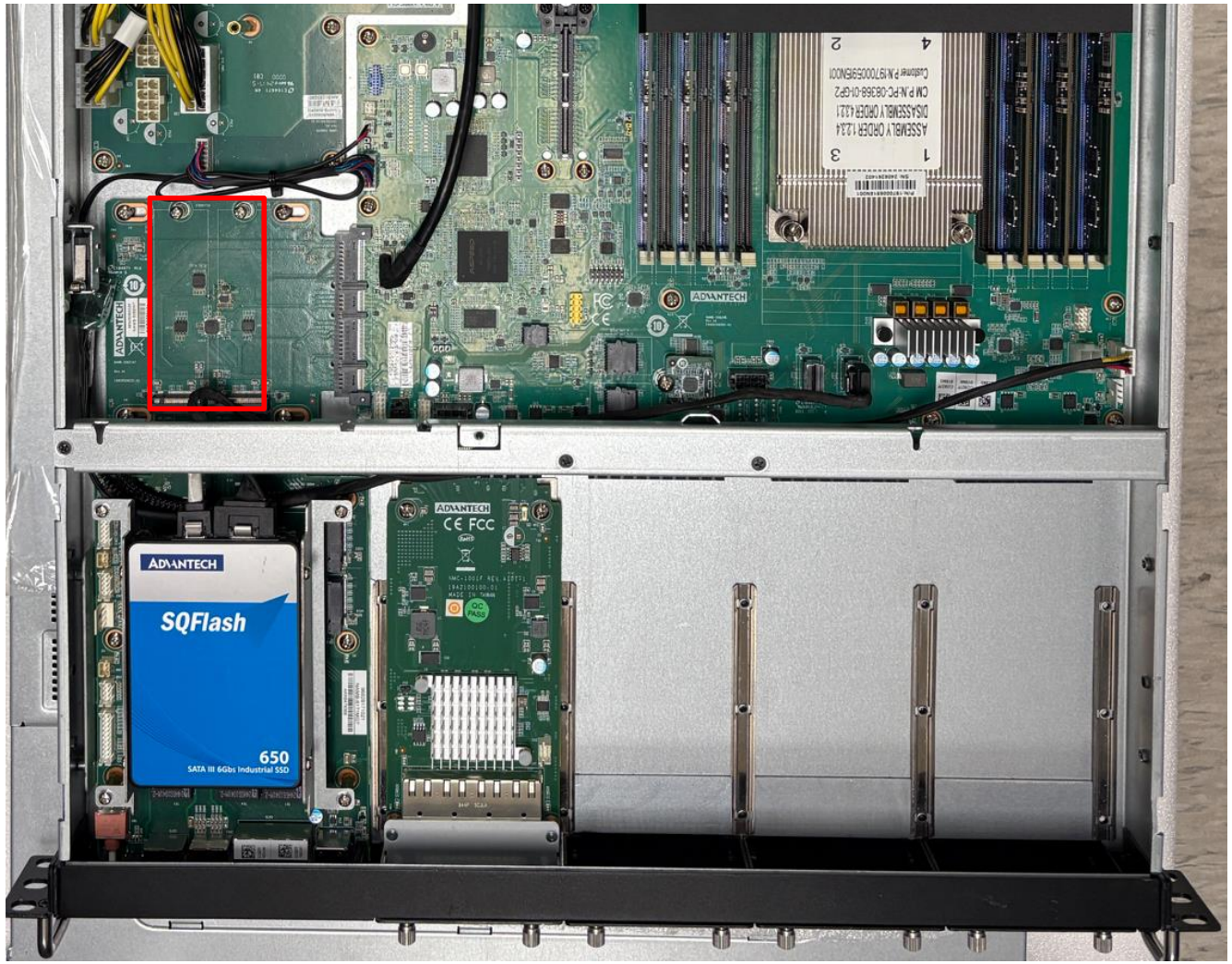


2. Slightly pull up the cage.

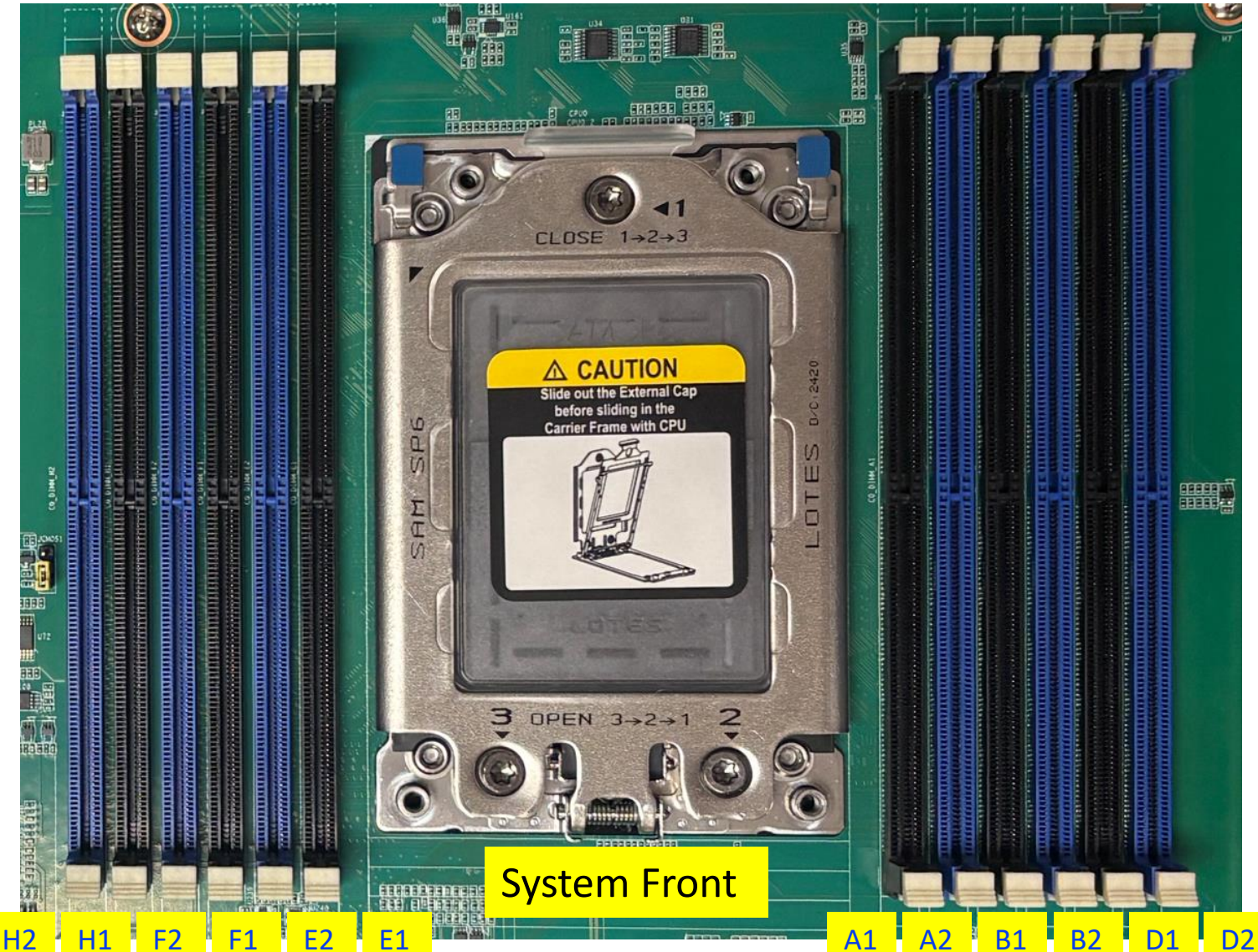


Server Rear Side [6/6]- Install M.2 disks

M.2 connectors are under PCIe cage.



DIMMs Population [1/4]- Notes



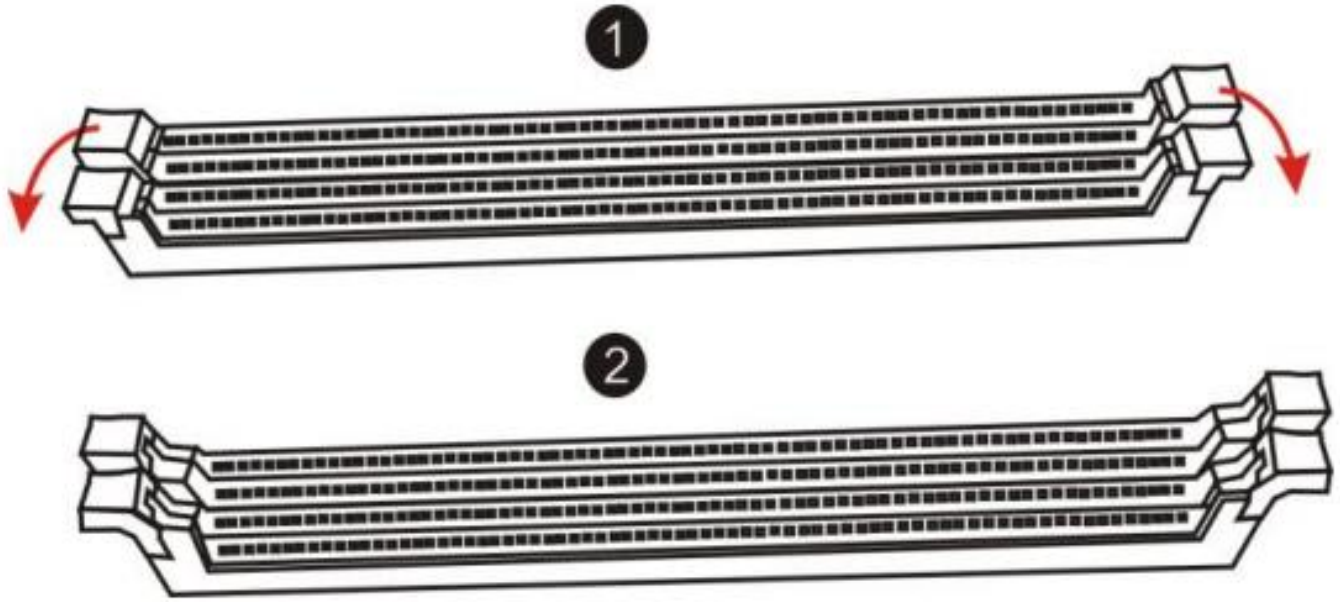
DIMMs Population [1/4]- Notes

Refer AMD document #57609 “Memory Population Guidelines for AMD Family 19h Models A0h-Afh Socket SP6 Processors”

CPU0	H2	H1	F2	F1	E2	E1	A1	A2	B1	B2	D1	D2
1								DDR5				
2							DDR5	DDR5				
2					DDR5			DDR5				
4					DDR5	DDR5	DDR5	DDR5				
4	DDR5				DDR5			DDR5				DDR5
6	DDR5		DDR5		DDR5			DDR5		DDR5		DDR5
8	DDR5	DDR5			DDR5	DDR5	DDR5	DDR5			DDR5	DDR5
12	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5

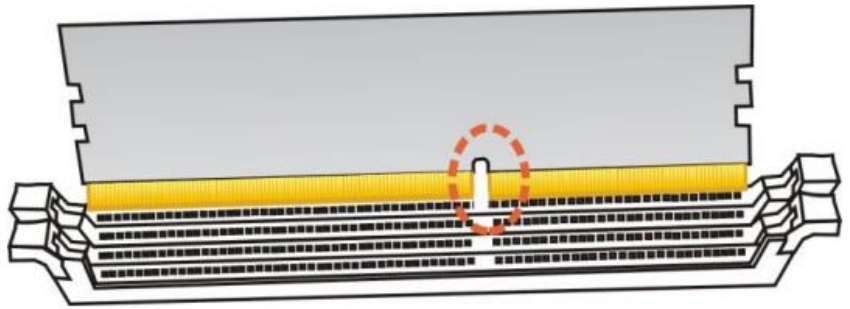
DIMMs Population [2/4]- Opening DIMM latches

❑ Step#1 – Open the latches on the left and right sides of the DIMMs by turning it outwards as indicated by the arrows below:

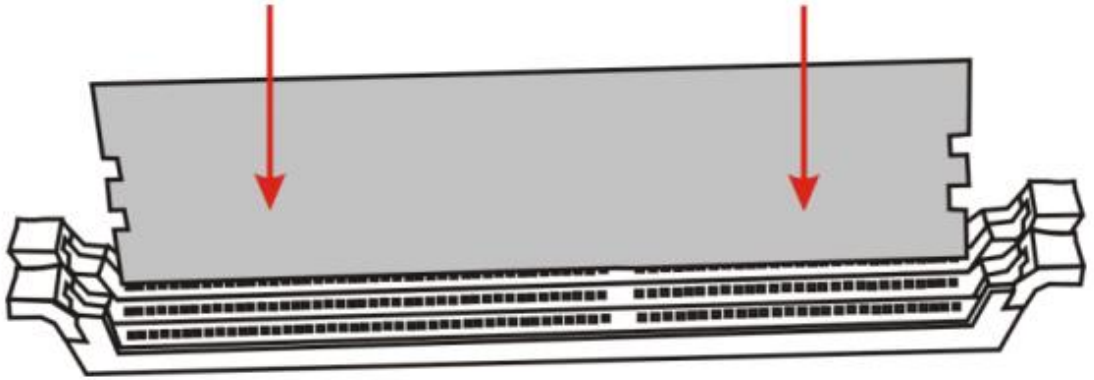


DIMMs Population [3/4]- DIMM Key Alignment

- Step#2 – Select DIMM orientation so that the keys in the DIMM module and socket match



- Step#3 – Insert the DIMM from the top using the guide rails on the left and right of the DIMM sockets



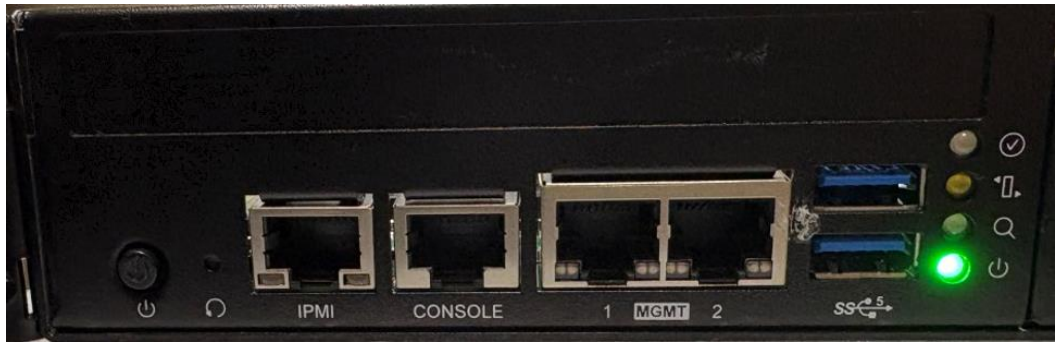
DIMMs Population [4/4]- fixing DIMM in the Socket

❑ Step#4 – Put your thumbs near the right and left end of the DIMM and press down the DIMM evenly until the white latches fully close with a click

Access the device via Console

- Step#1 – Power on the device
  - Prerequisite:
    - ✓ Get AC: 100 - 240VAC, 550W
  - Device will boot:
    - ✓ Correct behavior: you can hear FAN rotating in maximum speed for a while then down and also the Power LEDs should light up

Picture depicted how to plug in the PSU cable



Picture depicted the light color while device booting

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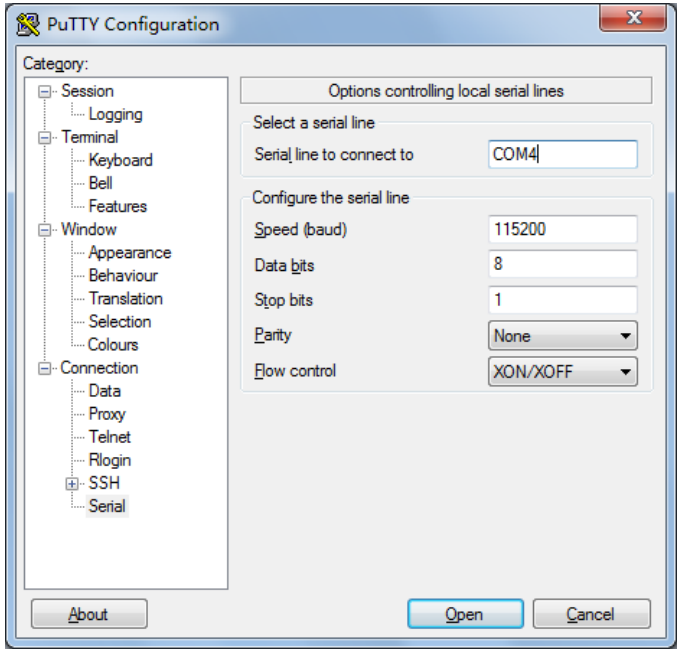
Access the device via Console

- Step#2 – Access the device
  - Prerequisite:
    - ✓ Console cable and PC + Terminal
  - Connect the PC to the server console

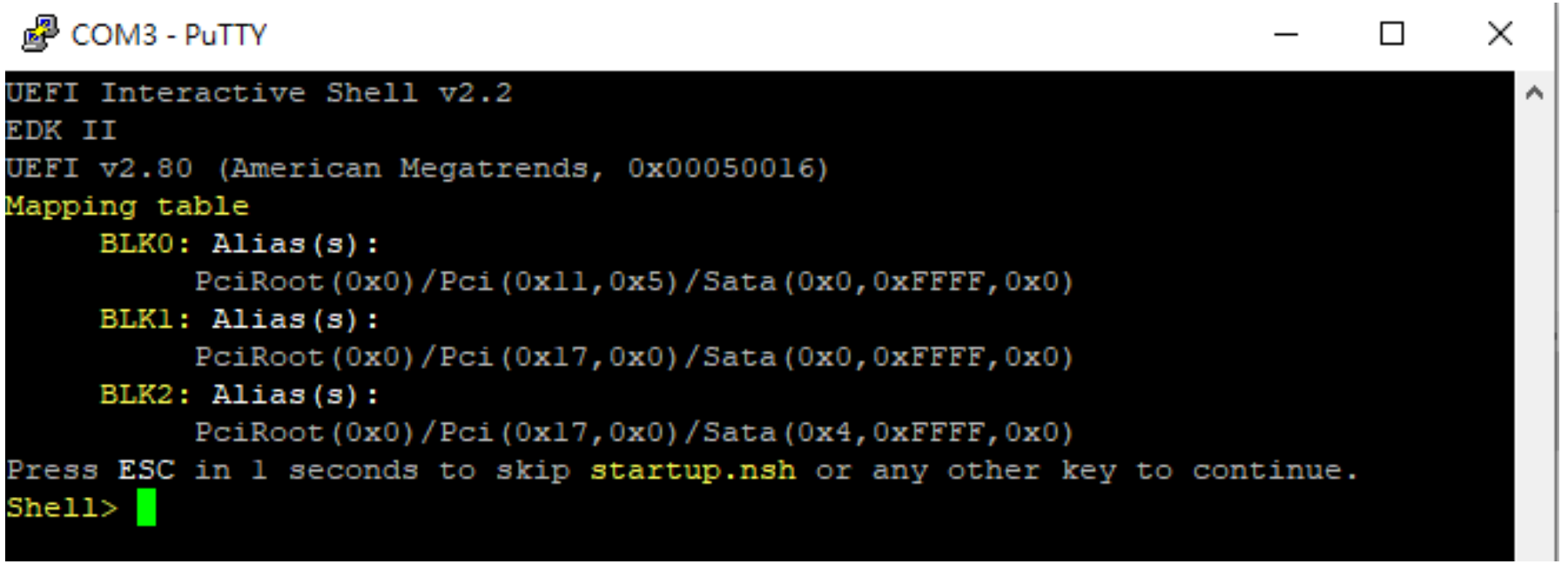
Terminal settings



Terminal Setting:

- Baud rate: 115200
- Data bits : 8
- Stop bits: 1

Access the device via Console



Picture depicted successfully server access via console

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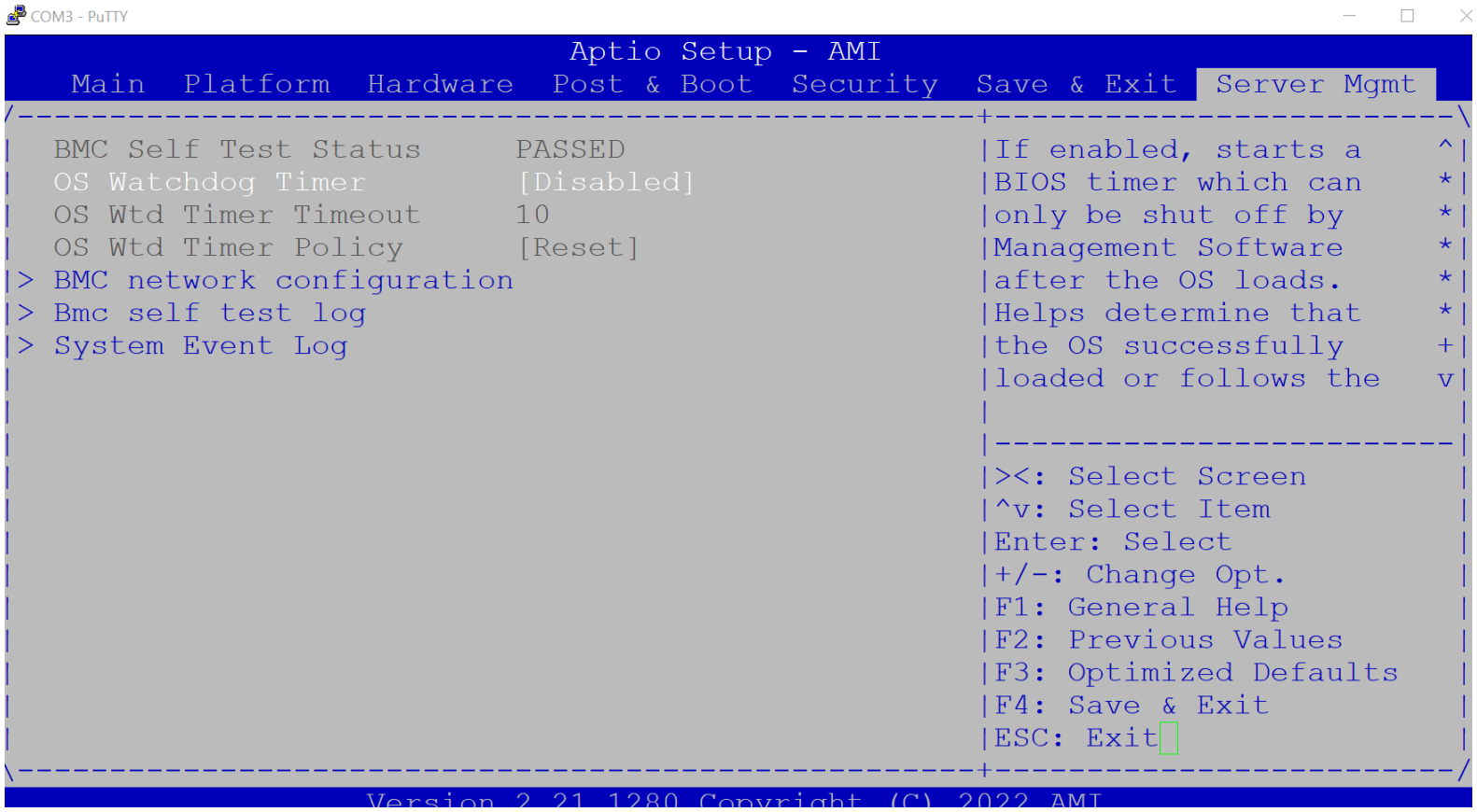
WebUI access

- In order to access the WebUI, we need to configure the IP address. In this part, we will describe how to set up WebUI IP address via BIOS

NS-SI channel #1

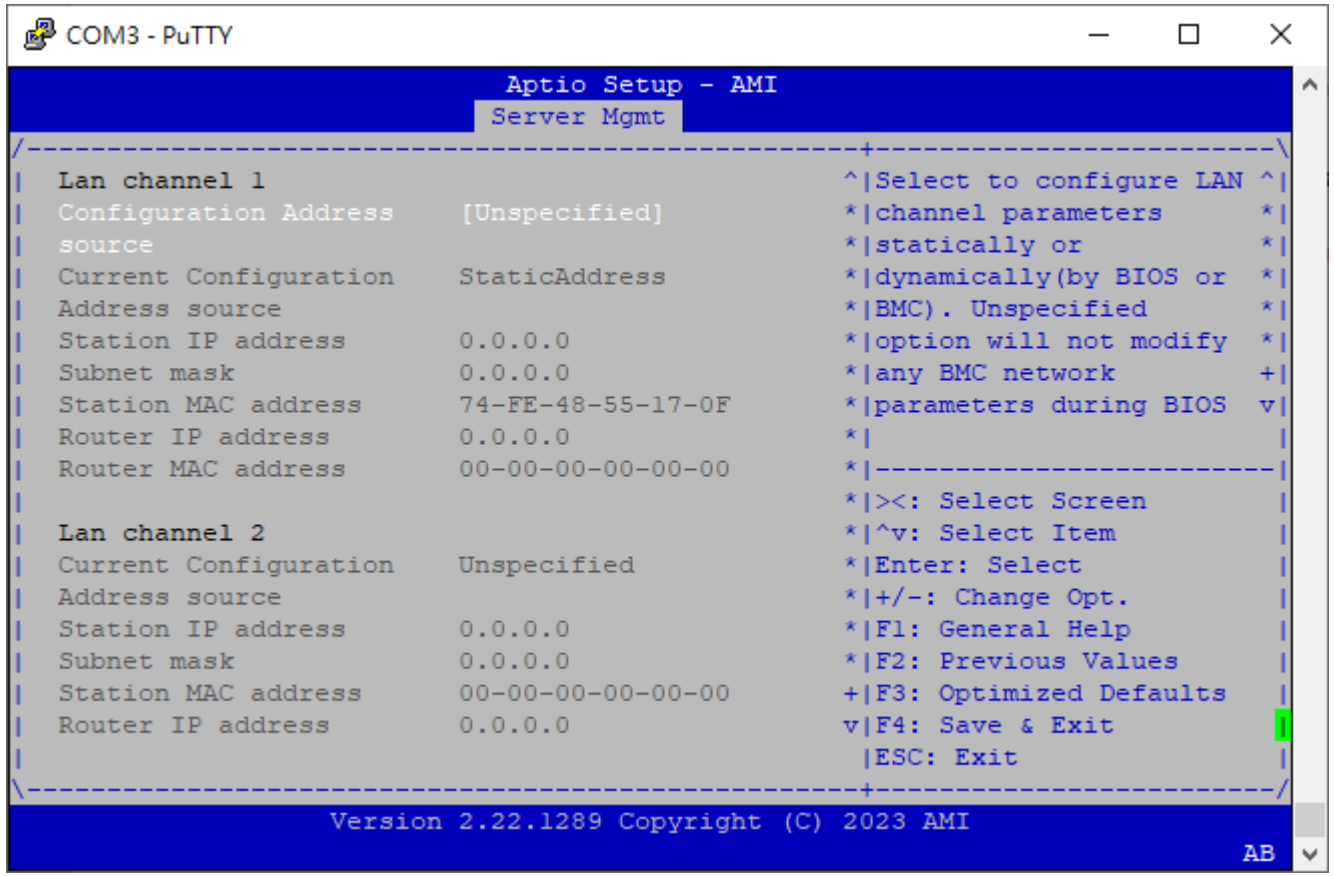
WebUI [1/3]- Configure BMC IP from BIOS

- Step#1- Press **DEL** after boot up to enter BIOS, and select "**Server Mgmt**" page.



WebUI [2/3]- Configure BMC IP from BIOS

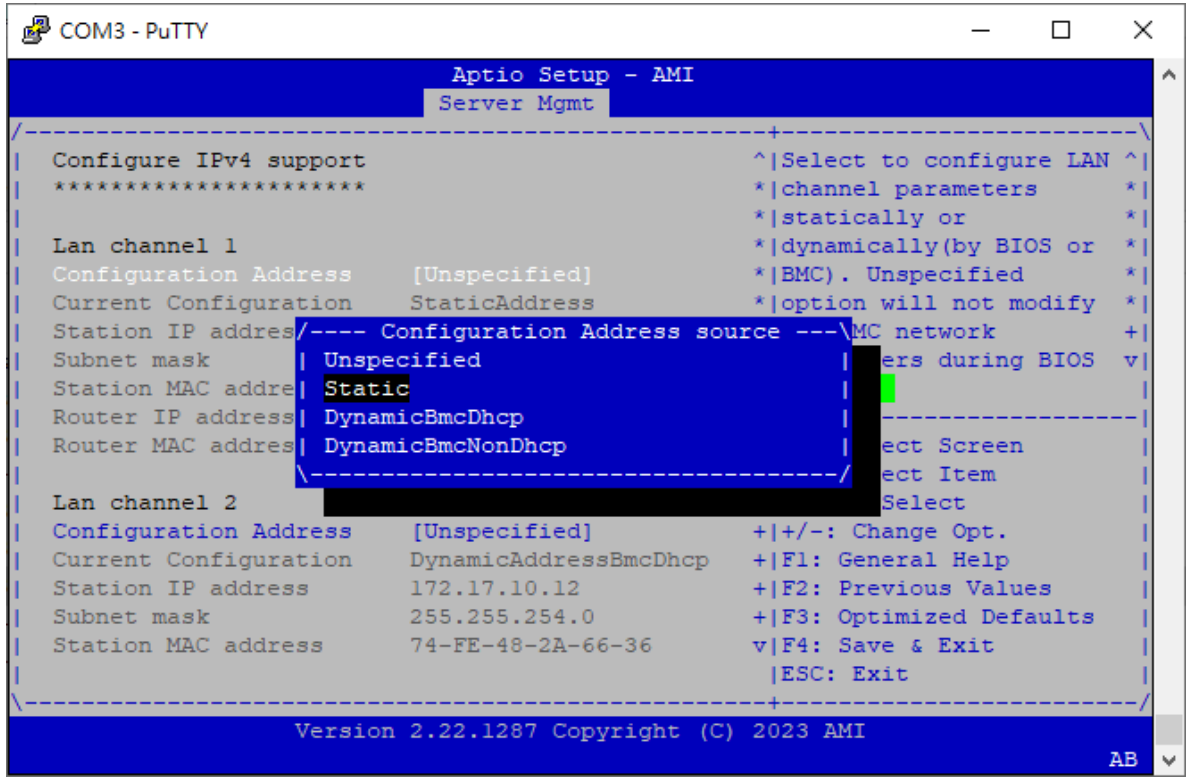
- Step#2- Choose "**BMC network configuration**"



WebUI [3/3]- Configure BMC IP from BIOS

- Step#3- Set "**Configuration Address**" -> "**Static**", and then **key in the IP address and subnet mask**.

*You can choose DHCP to obtain an IP address from your DHCP server.



- Step#4- Save and Exit

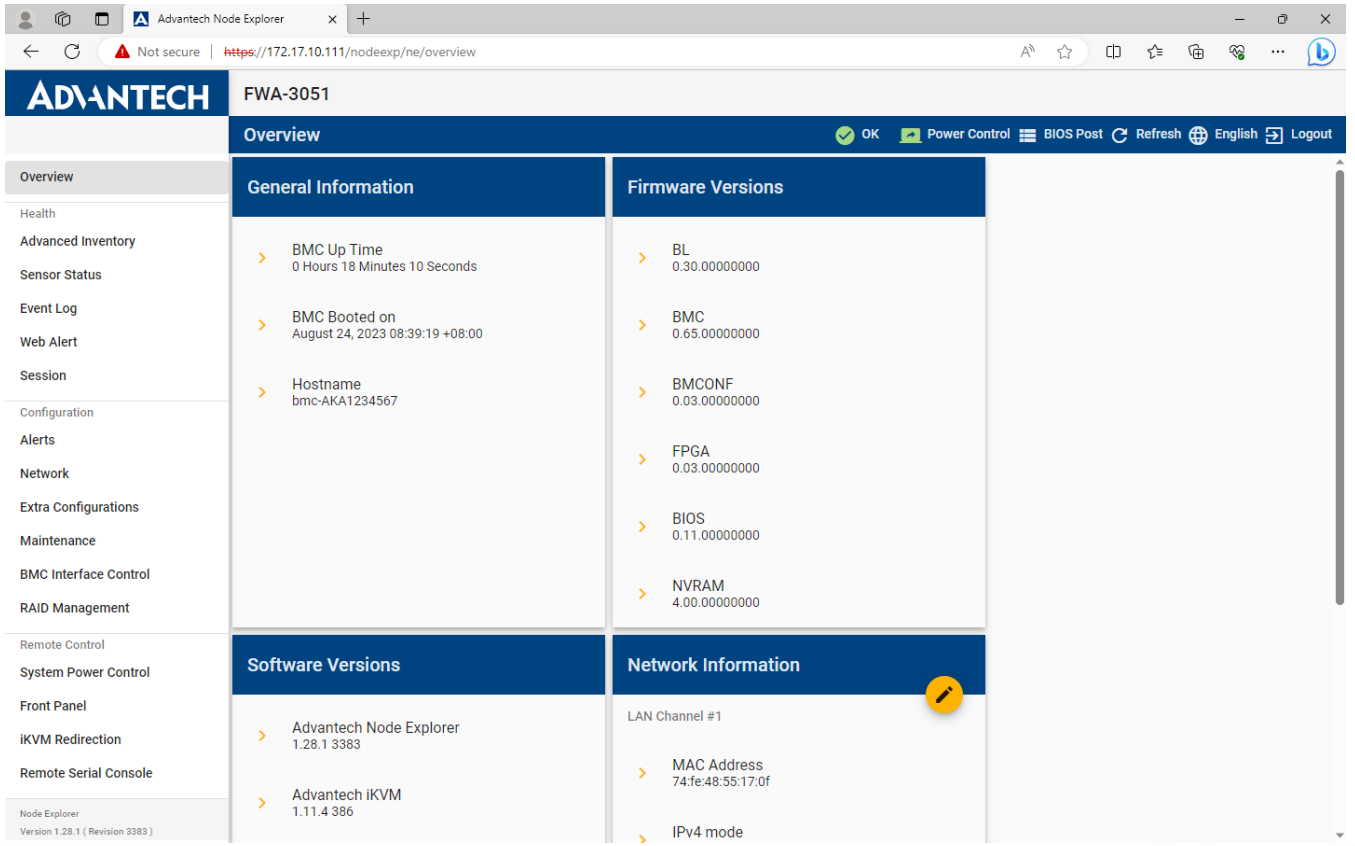
WebUI access from browser

After completing the steps above (WebUI IP configured via either BIOS or ipmitool), open your favorite browser and enter the WebUI IP as below: https://BMCIP

The default login credentials:

- User: administrator
- Password: advantech

Node Explorer User Manual
https://www.advantech.com/support/details/manual?id=1-1MU1KB1



OS installation

You could install your OS by following one of the below methods:

Method #1- Via Console Redirection

Reference: https://advantech-ncg.zendesk.com/hc/en-us/articles/360017541092-How-to-install-Linux-in-non-VGA-system-with-console-redirection

Method #2- Via BMC Web UI

Reference: https://advantech-ncg.zendesk.com/hc/en-us/articles/360047012912-How-to-install-operating-system-remotely-through-BMC-Web-UI-Remote-Storage-

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