

# **FWA-5082 QSG**

NSP, Alan.Ku 07/08<sup>th</sup>, 2025



# **History**

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

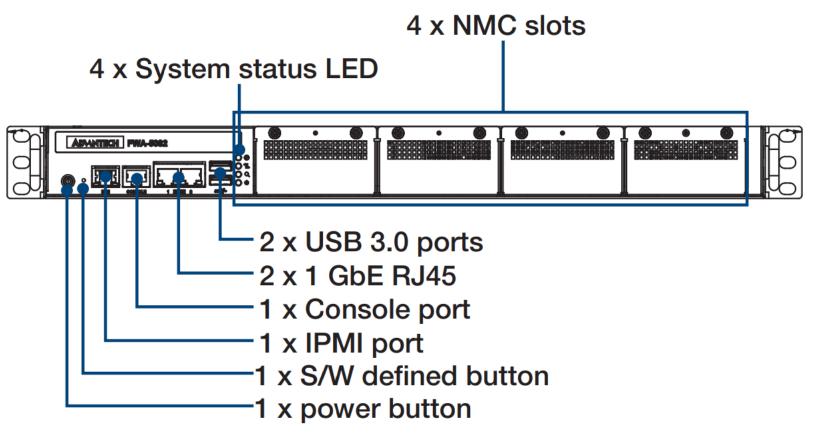


#### **Agenda**

- ☐ Server Front Side
- ☐ Server Rear Side
- ☐ DIMMs Population
- ☐ Access the device via console
- ☐ WebUl Access
- OS installation



#### Server Front Side [1/4]- Overview





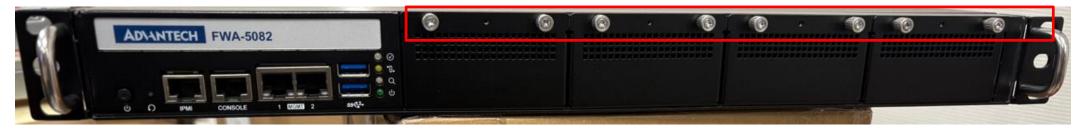
#### Server Front Side [2/4]- Status LEDs





# Server Front Side [3/4]- NMC slots

#### Lose screws

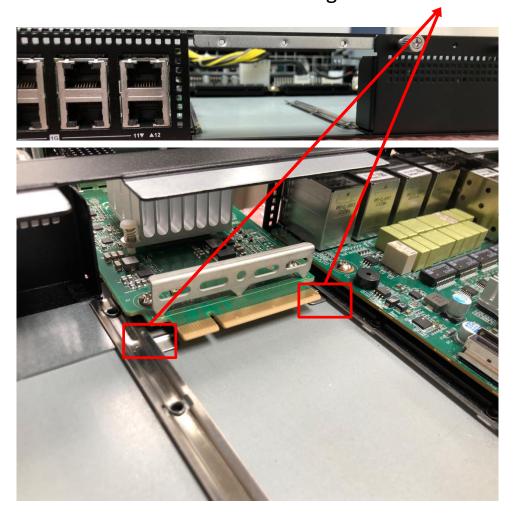




# Server Front Side [4/4]- NMC modules

1. Align NMC module to slide trails

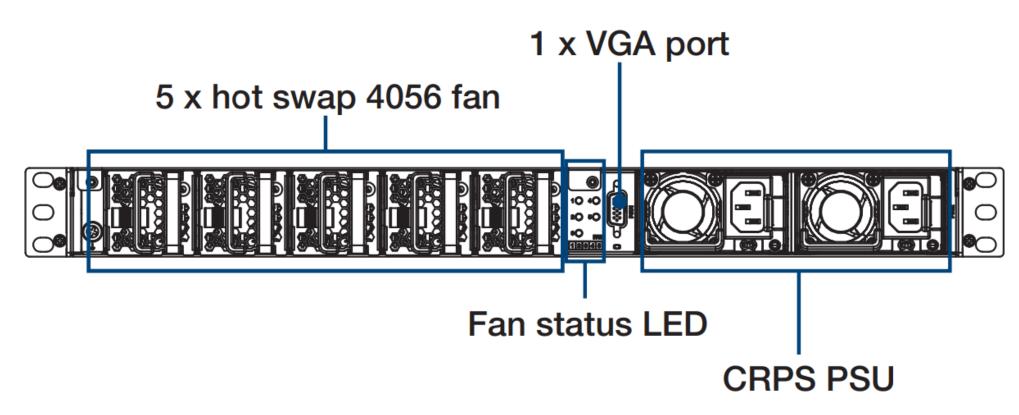
2. Push to the end







#### 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.



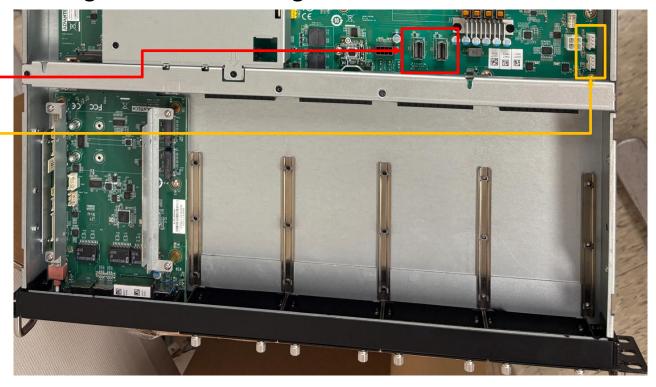


# Server Rear Side [4/6]- Install 2.5' HDD/SSD

3. Fit 2.5 inch disks in the holder.



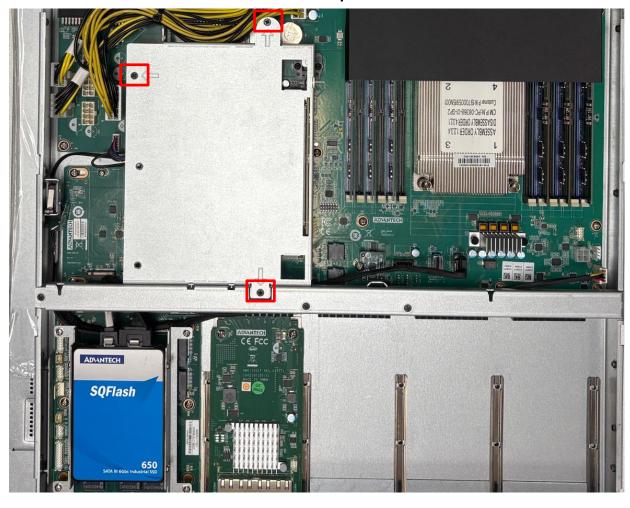
4. Plug cables to following connectors





# Server Rear Side [5/6]- PCIe Cage

1. Loose three screws from top.



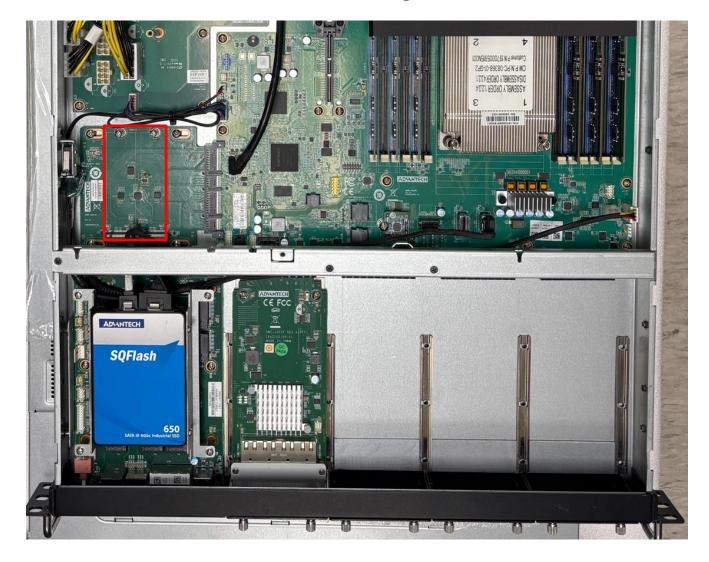
2. Slightly pull up the cage.





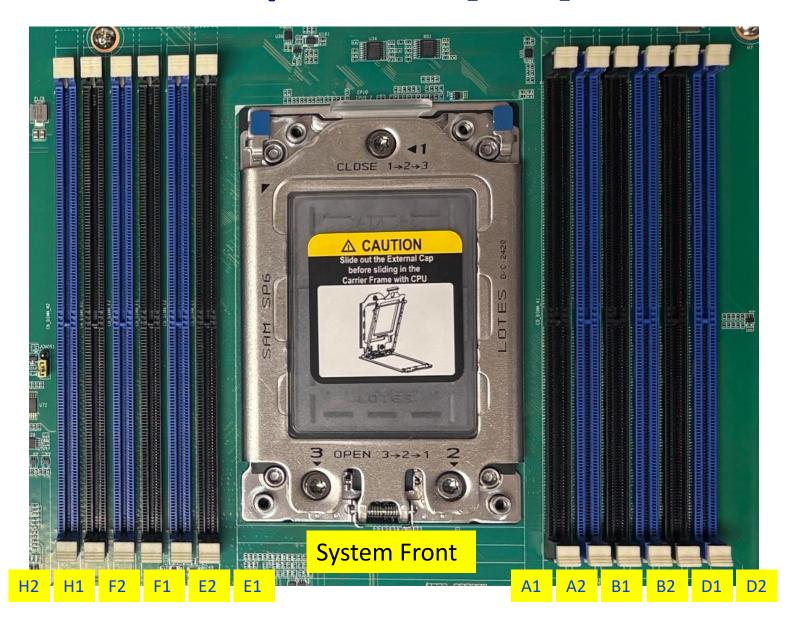
# Server Rear Side [6/6]- Install M.2 disks

M.2 connectors are under PCle cage.





# DIMMs Population [1/4]- Notes



#### DIMMs Population [1/4]- Notes

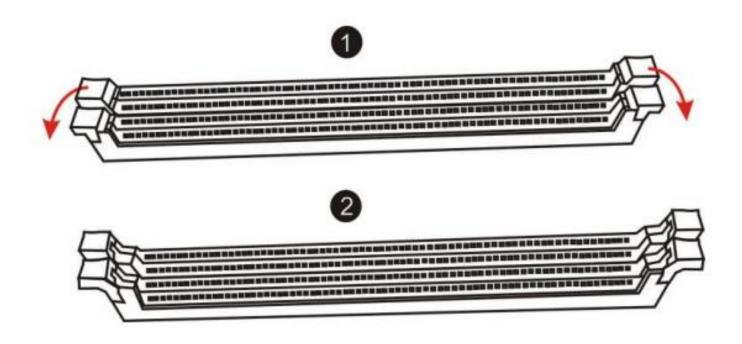
Refer AMD document #57609 "Memory Population Guidelines for AMD Family 19h Models A0h-Afh Socket SP6 Processors"

CPU0	H2	H1	F2	F1	E2	E1	A1	<b>A</b> 2	В1	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							



#### DIMMs Population [2/4]- Opening DIMM latches

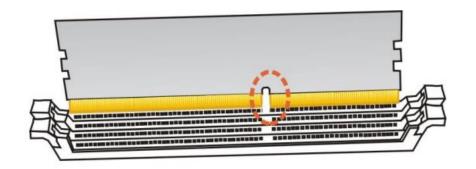
□ Step#1 – Open the latches on the left and right sides of the DIMMs by turning it outwards as indicated by the arrows below:



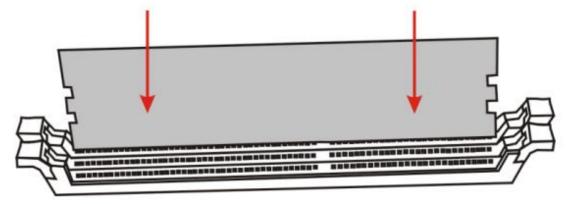


# DIMMs Population [3/4]- DIMM Key Alignment

□ 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

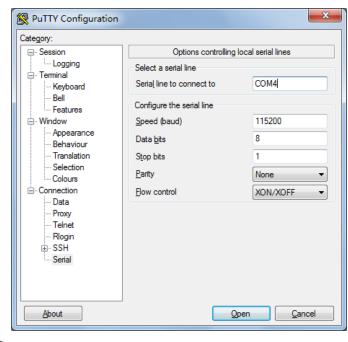


#### Access the device via Console

- ☐ Step#2 Access the device
  - o 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

```
UEFI Interactive Shell v2.2

EDK II

UEFI v2.80 (American Megatrends, 0x00050016)

Mapping table

BLK0: Alias(s):

    PciRoot(0x0)/Pci(0x11,0x5)/Sata(0x0,0xFFFF,0x0)

BLK1: Alias(s):

    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)

BLK2: Alias(s):

    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x4,0xFFFF,0x0)

Press ESC in 1 seconds to skip startup.nsh or any other key to continue.

Shell>
```

Picture depicted successfully server access via console



#### 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

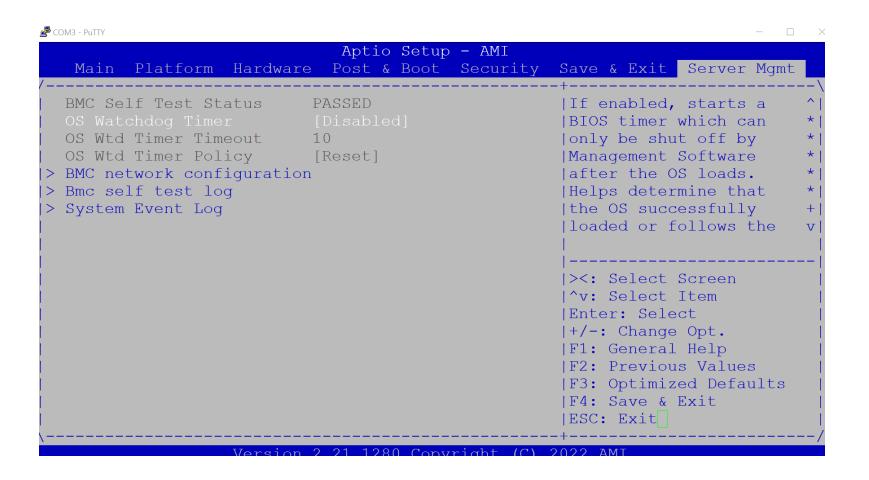


NS-SI channel #1



#### 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"

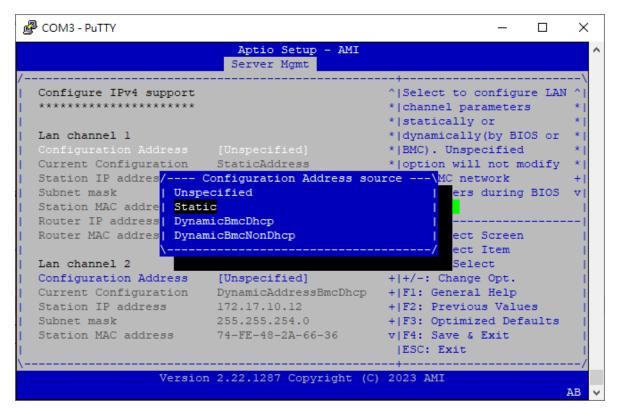
```
COM3 - PuTTY
                             Aptio Setup - AMI
                            Server Mgmt
                                                   ^|Select to configure LAN
 Lan channel 1
                                                  *|channel parameters
                                                  *|statically or
                                                  *|dynamically(by BIOS or
 Current Configuration
                          StaticAddress
                                                  *|BMC). Unspecified
 Address source
 Station IP address
                          0.0.0.0
                                                  *|option will not modify
 Subnet mask
                                                  *|any BMC network
                          0.0.0.0
 Station MAC address
                         74-FE-48-55-17-0F
                                                  *|parameters during BIOS | v|
 Router IP address
                         0.0.0.0
 Router MAC address
                          00-00-00-00-00
                                                  *|><: Select Screen
 Lan channel 2
                                                  *|^v: Select Item
 Current Configuration
                         Unspecified
                                                  *|Enter: Select
 Address source
                                                  *|+/-: Change Opt.
  Station IP address
                         0.0.0.0
                                                  *|F1: General Help
 Subnet mask
                          0.0.0.0
                                                  *|F2: Previous Values
 Station MAC address
                         00-00-00-00-00-00
                                                  +|F3: Optimized Defaults
 Router IP address
                          0.0.0.0
                                                  v|F4: Save & Exit
                  Version 2.22.1289 Copyright (C) 2023 AMI
```



#### 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

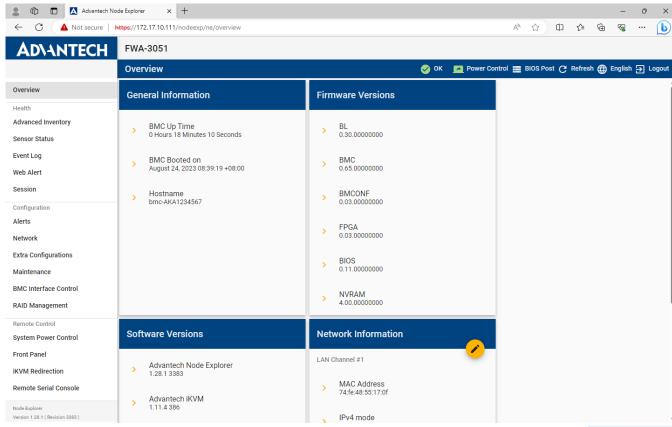
After completing the steps above (WebUI IP configured via either BIOS or ipmitool), open your favorite browser and enter the WebUI IP as below: https://BMCIP

The default login credentials:

User: administrator

Password: advantech

Node Explorer User Manual <a href="https://www.advantech.com/support/det">https://www.advantech.com/support/det</a> ails/manual?id=1-1MU1KB1





#### **OS** installation

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

Method #1- Via Console Redirection

Reference: <a href="https://advantech-ncg.zendesk.com/hc/en-us/articles/360017541092-How-to-install-Linux-in-non-VGA-">https://advantech-ncg.zendesk.com/hc/en-us/articles/360017541092-How-to-install-Linux-in-non-VGA-</a>

system-with-console-redirection

Method #2- Via BMC Web UI

Reference: <a href="https://advantech-ncg.zendesk.com/hc/en-us/articles/360047012912-How-to-install-operating-system-">https://advantech-ncg.zendesk.com/hc/en-us/articles/360047012912-How-to-install-operating-system-</a>

remotely-through-BMC-Web-UI-Remote-Storage-



# Go Together, We Go Far and Grow Big

