

# SKY-8134S-11 QSG



ICVG 2/7<sup>th</sup> , 2024



Version	Date	Handled by	Note
Draft	2023/1/11	Alan.Ku	
V01	2023/1/17	Alan.Ku	first publishing
V02	2023/2/7	Alan.Ku	Update p12, 21, 23~25
V03	2024/2/4	Alan.Ku	Update p4, 7, 10, 18, 19, 21



#### Agenda

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



### Server Front Side [1/5] – Overview



### Server Front Side [2/5]-DC PSU Swap

□ Unlock PSU by step 1 and remove it by step 2.





#### □ Step #1 Loose screws on rear

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#### □ Step #2 Loose the screw on top





□ Step #3 Loose the screw on following position





□ Step #4 Slightly pull up and remove PCIe cage



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□ Step #5 For wide width PCIe card, install cage and PCB holder at the same time.





PCB holder will on the right side.



### **Server Front Side [4/5]- Insert PCIe card**

□ Step #1 Loose the screw and remove PCIe dummy



□ Step #2 Align golden finger to the slot, push the card to end.





#### **Server Front Side [5/5]-Storage M.2**

□ Insert 2280 M.2 storage, push down and screw it up







#### **Server Rear Side**

#### □ System rear view.

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#### □ FAN physical locations and its naming.

	PCle	PCle	СРИ	CPU	CPU	Mezz Card	Mezz Card	PW	PW
SYS front LEDs	#9	#8	#7	#6	#5	#4	#3	#2	#1
BMC Sensor	RISER_FAN2	RISER_FAN1	CPU_FAN3	CPU_FAN2	CPU_FAN1	MEZZ_FAN2	MEZZ_FAN1	PSU_FAN2	PSU_FAN1



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

PCB DIMM slot printing as below.





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

Refer table below to populate DIMMs on Sapphire Rapids platforms.

IMC#	iMC3				iMC2					iMCO				iMC1			
	Chan 1	l (7/H)	Chan 0	) (6/G)	Chan 1	L (5/F)	Chan (	0 (4/E)		Chan 0	(0/A)	Chan 1	(1/B)	Chan (	) (2/C)	Chan 1	(3/D)
DDR5	H1 Slot0	Slot1	G1 Slot0	Slot1	F1 Slot0	Slot1	E1 Slot0	Slot1		Slot1	A1 Slot0	Slot1	B1 Slot0	Slot1	C1 Slot0	Slot1	D1 Slot0
											DDR5						
1+0							DDR5										
													DDR5				
					DDR5												
2+0			DDR5				0005		C		DDR5				0085		
4+0			DDR5				DDR5		C		DDR5				DDR5		
			DDR5		DDR5		DDR5		P		DDR5				DDR5		DDR5
6+0	DDR5		DDR5				DDR5		U		DDR5		DDR5		DDR5		
010	DDR5				DDR5		DDR5		Ũ				DDR5		DDR5		DDR5
	DDRS		DDRS		DDRS						DDRS		DDRS				DDR5
8+0	DDR5		DDR5		DDR5		DDR5				DDR5		DDR5		DDR5		DDR5
12+0	DDR5		DDRS	DDR5	DDR5		DDRS	DDRS		DDR5	DDR5		DDRS	DDRS	DDR5		DDR5
	DDR5	DDRS	DDRS		DDR5	DDR5	DDRS				DDRS	DDRS	DDRS		DDR5	DDRS	DDR5
16+0	DDR5	DDR5	DDR5	DDR5	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 DC -40V~-72V power source
- 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 in green





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

- Prerequisite:
- Connect the PC to the server console

#### Terminal settings



#### Access the device via Console



Picture depicted successfully server access via console





□ In order to access the Web UI, we need to configure the IP address. In this part, we will describe how to set up

Web UI IP address via BIOS





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

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

🚰 COM3 - PuTTY			— [	
Main Platform Hardwar	Aptio Setur re Post & Boot	• - AMI Security	Save & Exit Server Mgm	t\
BMC Self Test Status OS Watchdog Timer OS Wtd Timer Timeout OS Wtd Timer Policy > BMC network configuration > Bmc self test log > System Event Log	PASSED [Disabled] 10 [Reset] on		<pre> If enabled, starts a  BIOS timer which can  only be shut off by  Management Software  after the OS loads.  Helps determine that  the OS successfully  loaded or follows the    </pre>	\ *  *  *  *  +  V                



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

□ Step#2- Choose "BMC network configuration"

P	COM3 - PuTTY		- 🗆	×	
		Aptio Setup - AMI Server Mgmt			^
/     	Configure IPv4 support		^ Select to configure LAN * channel parameters * statically or	-\ ^  *  *	
   	Lan channel l Configuration Address Current Configuration	[Unspecified] StaticAddress	<pre>* dynamically(by BIOS or * BMC). Unspecified * option will not modify</pre>	*  *  *	
   	Station IP address Subnet mask Station MAC address	0.0.0.0 0.0.0.0 74-FE-48-2A-66-35	+ any BMC network + parameters during BIOS +	+  ⊽  	
   	Router IP address Router MAC address	0.0.0.0 00-00-00-00-00-00	+  + ><: Select Screen + ^v: Select Item	-1	
   	Lan channel 2 Configuration Address Current Configuration Station IP address	[Unspecified] DynamicAddressBmcDhcp 172.17.10.12	+ Enter: Select + +/-: Change Opt. + F1: General Help + F2: Previous Values		
     \	Subnet mask Station MAC address	255.255.254.0 74-FE-48-2A-66-36	+ F3: Optimized Defaults v F4: Save & Exit  ESC: Exit	      -/	
	Version	2.22.1287 Copyright (C)	2023 AMI A	в	¥



## 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 could also choose DHCP as well to obtain an IP address from your DHCP server.



□ Step#4- Save and Exit



#### Web UI access from browser

After completing the steps above (Web UI IP configured via either BIOS or IPMI commands), open your favorite browser the enter the Web UI IP as below: <u>https://BMCIP</u>

The default login credentials:

- User: administrator
- Password: advantech

Node Explorer User Manual <u>https://www.advantech.com/support/</u> 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: <u>https://advantech-ncg.zendesk.com/hc/en-us/articles/360017541092-How-to-install-Linux-in-non-VGA-</u> system-with-console-redirection

Method #2- Via BMC Web UI

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

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



#### Go Together, We Go Far and Grow Big

