Virgo

Server MotherBoard

User's Manual

UM_Virgo_v1.1_092517

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Safety Information

When installing, operating, or performing maintenance on this equipment, the following safety precautions should always be observed in order to reduce the risk of fire, electric shock, and personal injury.

Read and understand all instructions.

- Observe warnings and instructions marked on the product.
- For proper mounting instructions, please consult the User's Manual provided with this product.
- Do NOT place this product on an unstable cart, stand, table or uneven surface that might cause the product to fall and sustain serious damage.
- Only install the equipment identified in the User's Manual. Use of other equipment could cause improper connection of circuitry and may result in fire or personal injury.
- This product should only be operated with the type of power source indicated on the marked label. If you are uncertain about which type of power supply is used in your area, consult your dealer or local Power Company.
- Disconnect the power supply module before removing power from the system.
- Unplug this product from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleaners.
- Do not use this product near a water source, such as a faucet.
- Never spill liquids of any kind on this product.
- Never shove objects of any kind into this product's open slots, as they may touch dangerous voltage points or short out parts and could result in fire or electric shock.
- Do not block or cover slots and openings in this unit, as they were made for ventilation and prevent this unit from overheating. Do not place this product in a built-in installation unless proper ventilation is available.
- Do not disassemble this product. This product should only be taken apart by trained personnel. Opening or removing covers and circuit boards may expose you to electric shock or other risks. Incorrect reassembly can also cause electric shock when the unit is subsequently used.
- Risk of explosion is possible if battery is replaced with an incompatible type. Dispose of used batteries accordingly.
- This product is equipped with a three-wire grounding type plug, a plug with a third (grounding) pin. As a safety feature, this plug is intended to fit only into a grounding type power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace the outlet. Do not remove the grounding type plug or use a 3-Prong To 2-Prong Adapter to circumvent the safety feature; doing so may result in electric shock and/or damage to this product.

About This User Manual

This document provides a detailed description of the Motherboard including:

- General Features of the Product
- Hardware Setup
- Motherboard Settings
- BIOS Configuration and Settings
- BMC Configuration and Settings

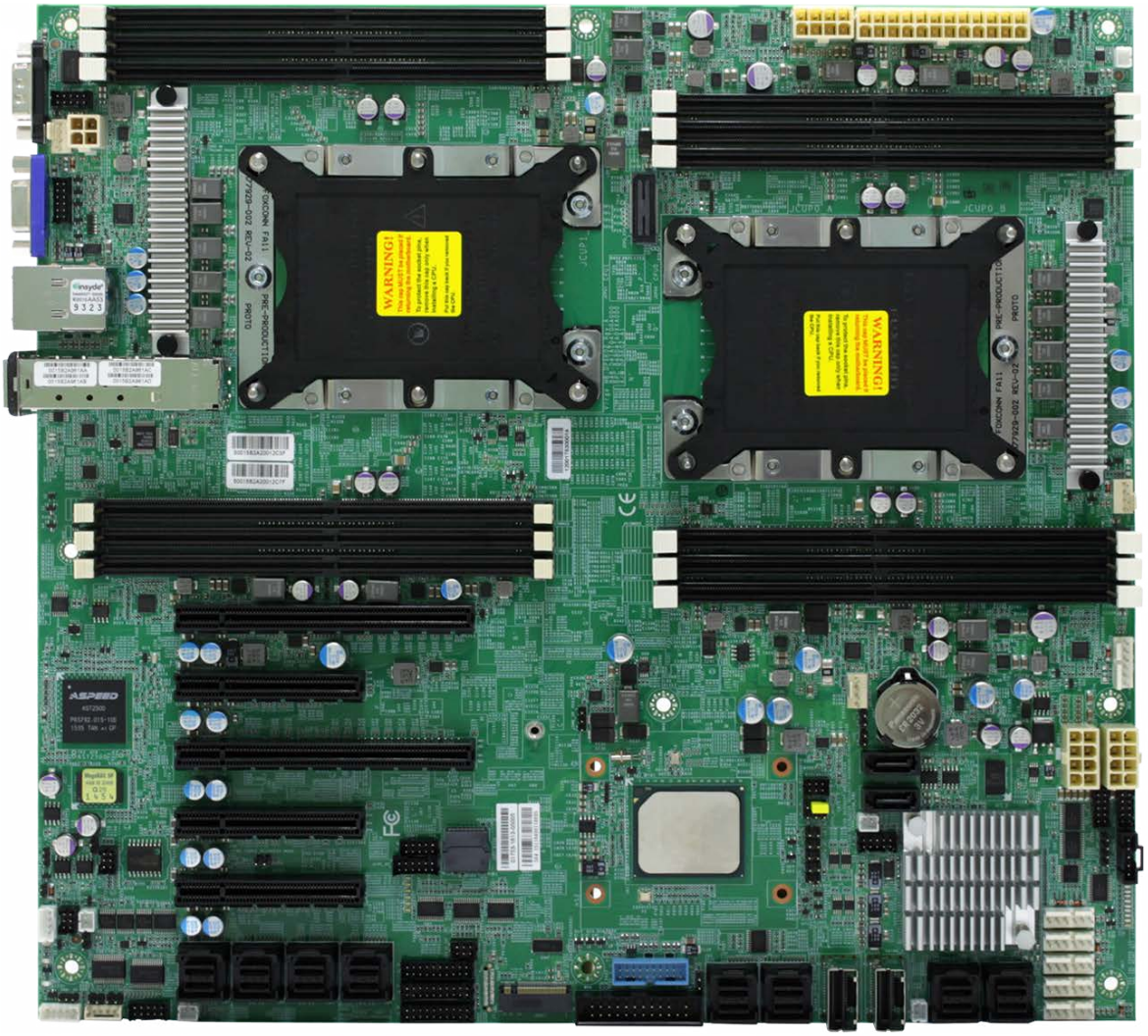
Product features and specifications are subject to change without notice.

CAUTION :
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
AFTER PERFORMING ANY INSTALLATION OR SERVICING, MAKE SURE THE ENCLOSURE ARE LOCK AND SCREW IN POSITION, TURN ON THE POWER.

Chapter 1. Product Introduction

1.1 General Information

Virgo, a server grade mother board supports Xeon Processor Scalable Family



1.2 Specifications

System	Processor Support	Intel® Xeon® Scalable Processor Family
	UPI Speeds	9.6 , 10.4 GT/s
	Socket Type	Socket P0 (LGA-3647 Socket)
	System Chipset	Intel® Lewisburg C620 series Chipset
	System Memory	• DDR4 2400 (2DPC) /2666(1DPC) MHz • Total 12 memory slots ; 6 channel per CPU (1DPC)
	Expansion Slots	• 2* PCI-E Gen.3 x16 slots 3 * PCE-E Gen.3 x8 slots • 6 * SFF-8643 each support NVMe PCI-E x4 • 1* NGFF (M.2) support PCI-E Gen.3 x4 / SATA
System BIOS	BIOS Type	• Insyde UEFI BIOS
	BIOS Features	• ACPI • PXE • WOL • AC loss recovery • IPMI KCS interface • SMBIOS • Serial console redirection • BIOS Boot Specification • BIOS Recovery Mode • SRIOV

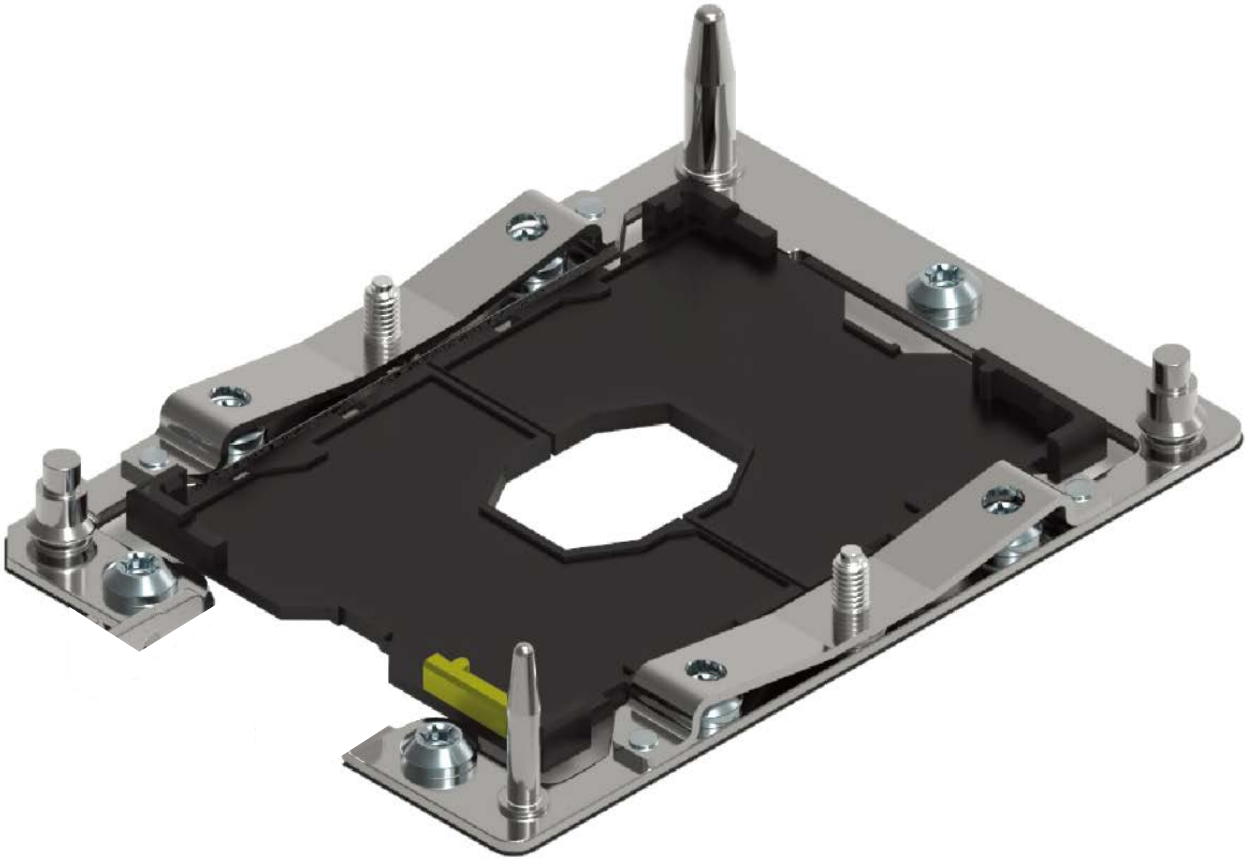
On-board Devices	SATA/SAS	• Lewisburg PCH on-chip solution • 8* SATA 6.0 Gb/s (by 2* mini-SAS) + 2 * SATA 6.0 Gb/s (by 2* SATA 7 pin) • Broadcom SAS IOC SAS3008 support up to 8 ports 12G SAS via 2* mini-SAS HD (optional)
	IPMI	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor •Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support • HTML5 • Redfish
	Network Controller	• Intel® PCH (Lewisburg) Integrated 10GbE LAN Controller support 2 * 10GbE SFP+ @rear I/O + 2 * configurable ports supports 10GbE (KR/SFI/XFI) or 1GbE(KX) by onboard header • Realtek RTL8201EL for BMC dedicate management port
	Graphics	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • PCIe VGA/2D Controller • 1920x1200@60Hz 32bpp
Input/Output	Serial ATA	10 x SATA3 ports
	SAS (Optional)	• 2 x Mini-SAS HD (SFF-8643) support up to 8 ports SAS 12 Gb/s
	LAN	• 2 x 10G SFP+ •1 x internal SFF-8612 (OCuLink) support dual ports : KR /SFI/XFI or KX • 1 x GbE RJ45 dedicated to BMC management
	USB	• 2 x USB 3.0 double-stack Type-A connectors • 1 x USB internal pin-header to support 2 x USB 3.0 / USB2.0
	VGA	• 1 x external VGA port • 1 x internal VGA pin-header (share with external VGA port)
	Serial Port	• 1 x external DB-9 COM port • 1 x internal COM pin-header
	Others	• 1 x NGFF (M.2) support PCI-E Gen.3 x4 / SATA up to 2280 • 1 x TPM 2.0 onboard

Chapter 2. Hardware Installation

2.1 Central Processing Unit (CPU)

2.1.1 Processor Support

The server board includes two processor sockets (LGA3647) and can support one or two of the Intel® Xeon® Processor Scalable Family, with a Thermal Design Power (TDP) of up to 165W on selected models.



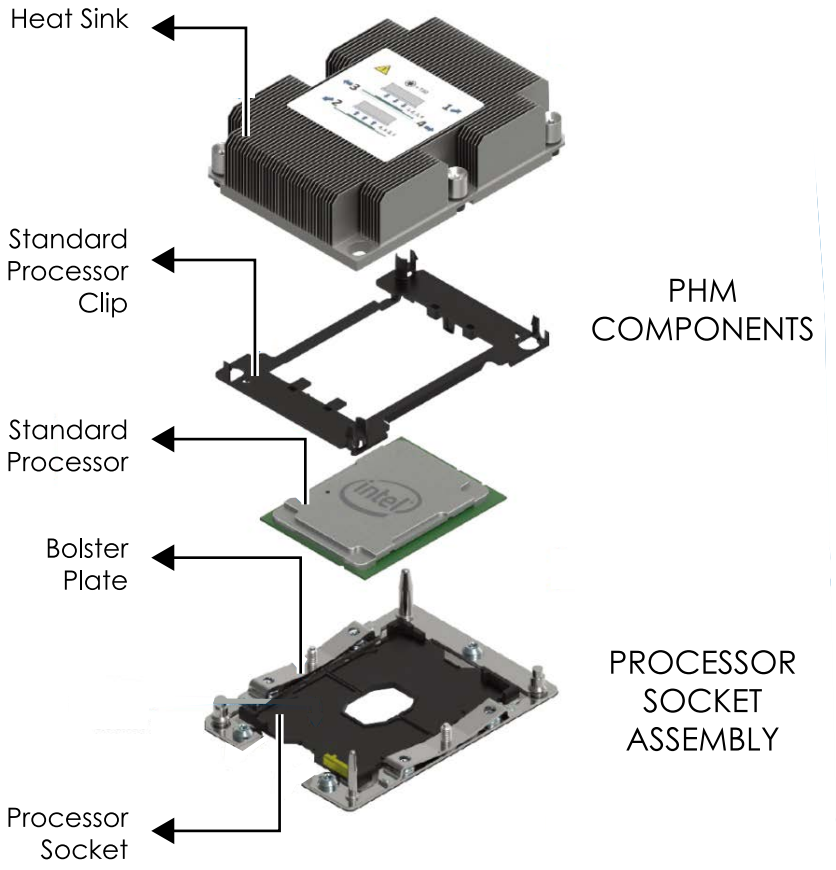
WARNING :

PREVIOUS GENERATIONS OF THE INTEL® XEON® PROCESSORS, AND PREVIOUS GENERATIONS OF PROCESSOR HEAT SINKS ARE NOT COMPATIBLE WITH THE INTEL® SERVER BOARD S2600BP PRODUCT FAMILY. PROCESSOR INSTALLATION REQUIRES THAT THE PROCESSOR BE ATTACHED TO THE PROCESSOR HEAT SINK USING A SPECIFIC PROCESSOR CARRIER CLIP, PRIOR TO INSTALLATION ONTO THE SERVER BOARD.

2.1.2 Processor Heat Sink Module and Processor Socket Assembly

Each processor socket of the server board is pre-assembled with a loading mechanism that allows to secure the placement of the Processor Heat Sink Module (PHM) to the server board as shown below.

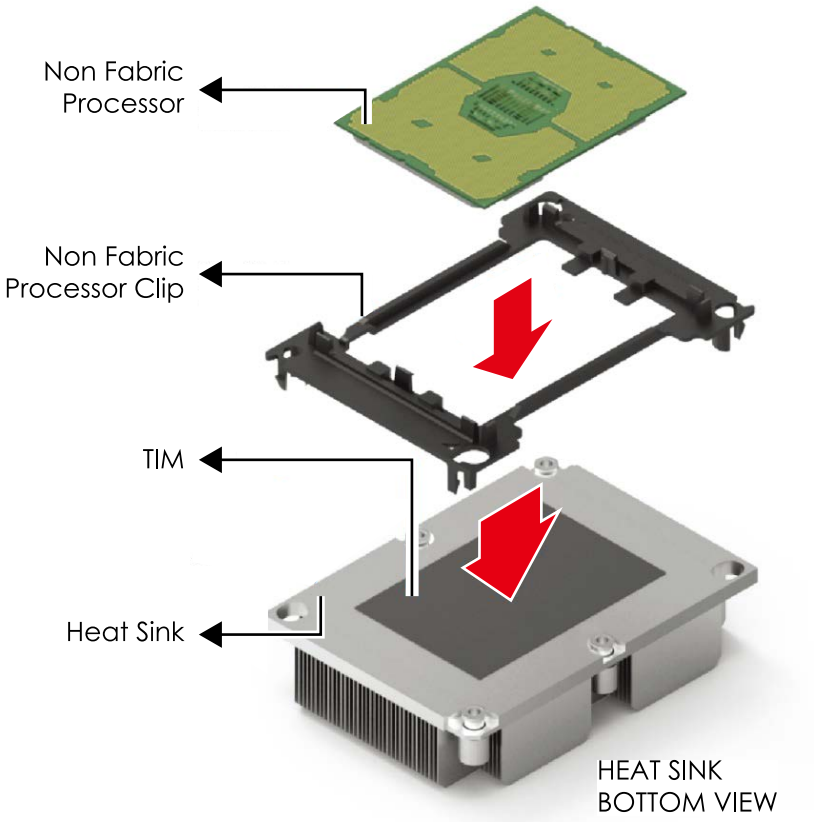
Standard Processor Assembly



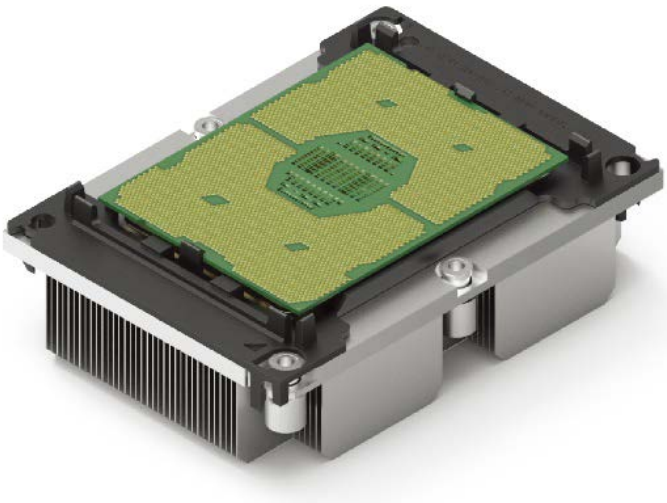
2.1.3 Processor Heat Sink Module

The PHM refers to the sub-assembly where the heat sink and processor are clipped together prior to installation onto the server board. The PHM consists of the components shown below.

Processor Heat Sink Module (PHM) Sub-Assembly

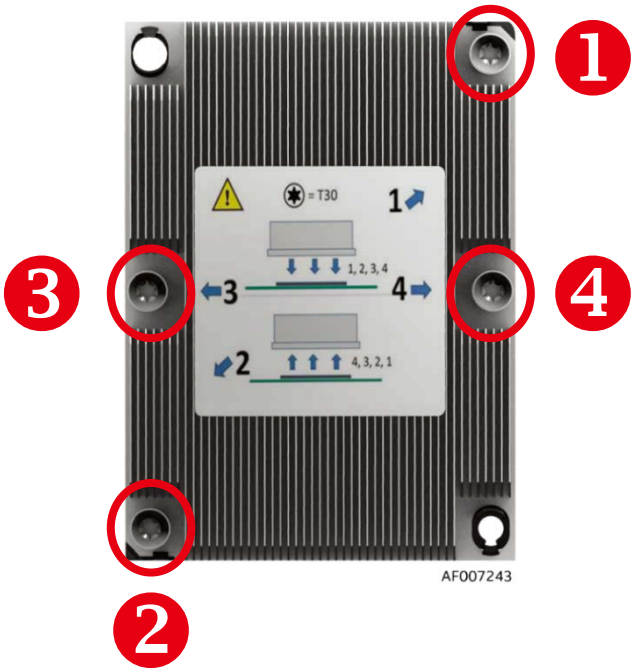


Processor Heatsink Module (PHM)



The PHM sits level with the processor socket assembly. The PHM is NOT installed properly if it does not sit level with the processor socket assembly. Once the PHM is seated over the processor socket assembly, the four heat sink torque screws must be tightened in order as shown below.

Processor Heat Sink – Top View with Screw Tightening Order

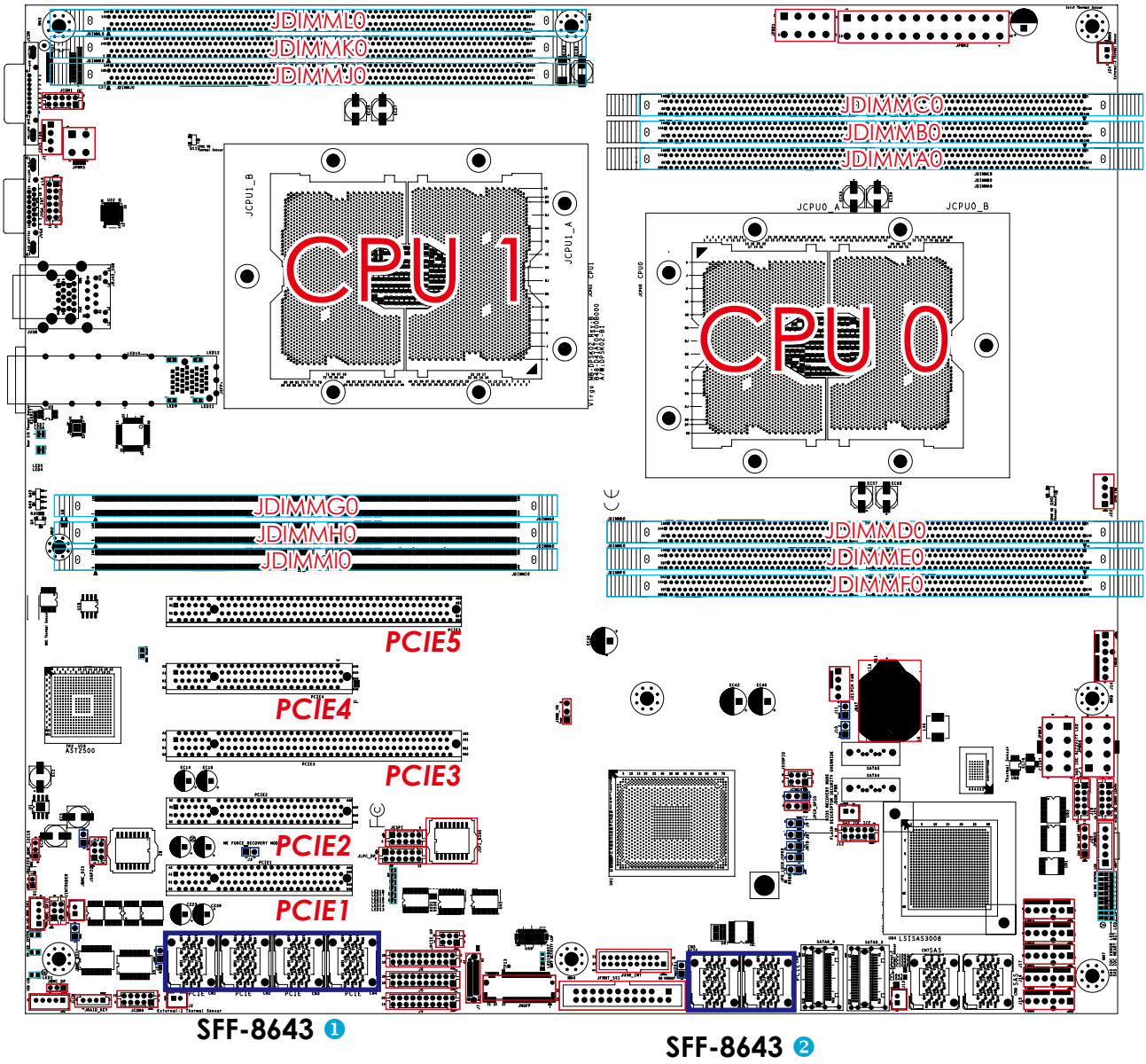


NOTE :

Failure to tighten the heat sink screws in the specified order may cause damage to the processor socket assembly. Heat sink screws should be tightened to 12 In-Lbs Torque on indicated order on the top of the heat sink label.

2.2 System Memory & SFF-8643

This server board supports up to twelve DDR4 2400 and 2666 Registered ECC DRAM / Load-Reduced DIMM (LRDIMM).

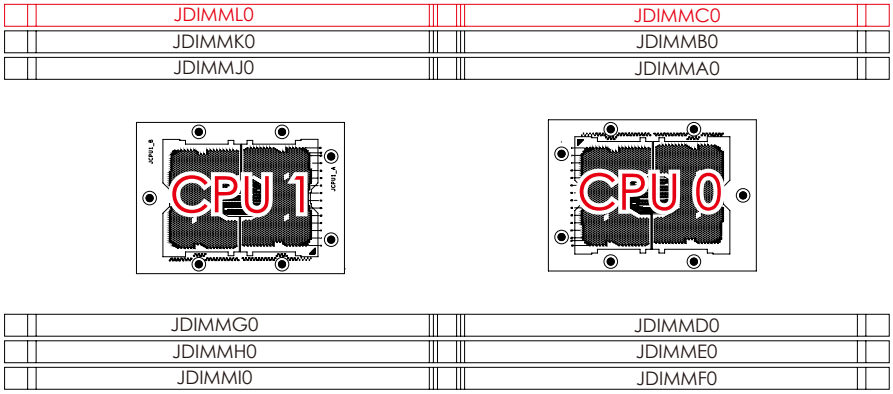


NOTE :

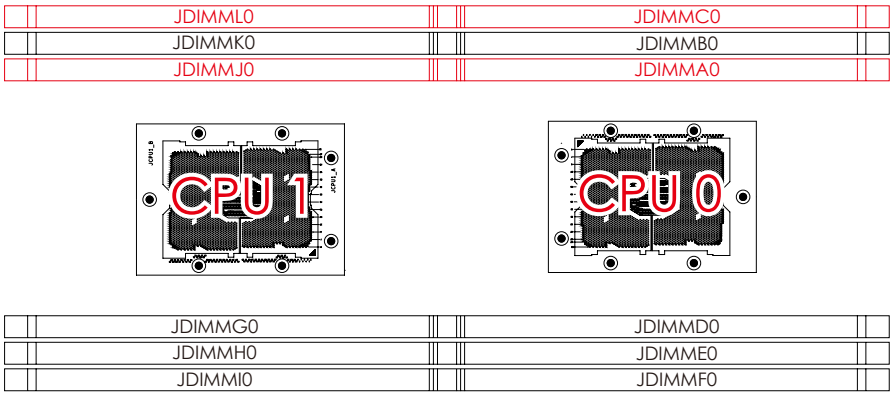
In Virgo case, the lanes from CPU#0 are routed to PCIE slots 1 and 5 and the onboard SFF-8643 ❷.
The lanes from CPU#1 are routed to PCIE slots 2 / 3 / 4 and the onboard SFF-8643 ❶.

2.2.1 Populate DIMMs in the following order：

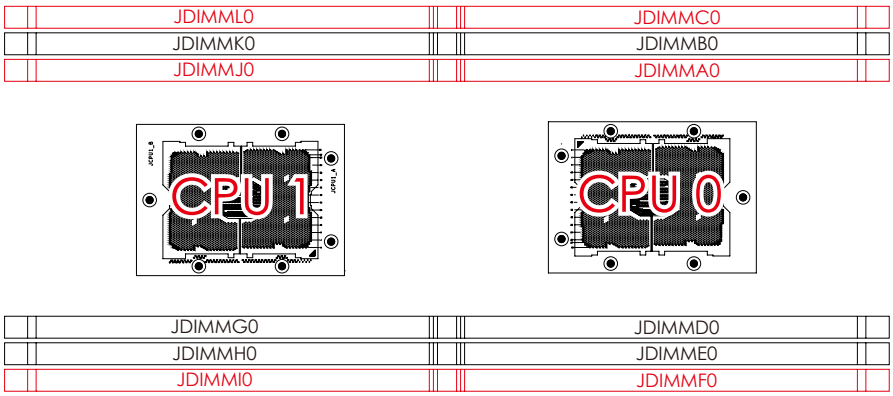
DIMM Numbers	DIMM ARRANGMENT	
2 DIMMs	CPU1	CPU0
	JDIMM_L0	JDIMM_C0



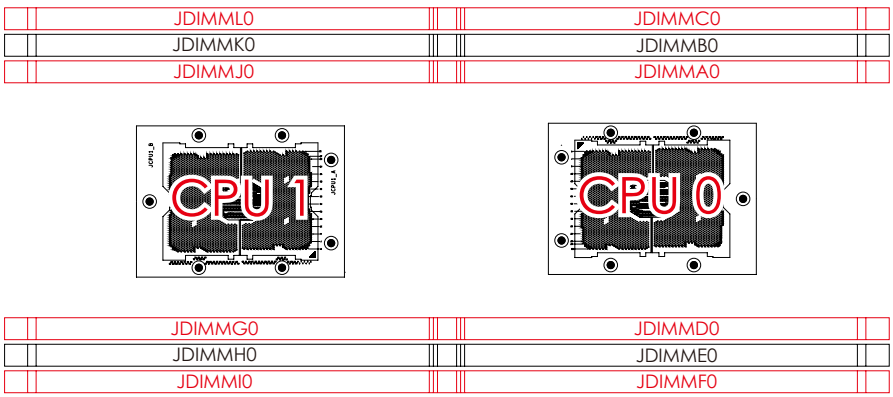
	CPU1	CPU0
4 DIMMs	JDIMM_L0	JDIMM_C0
	JDIMM_J0	JDIMM_A0



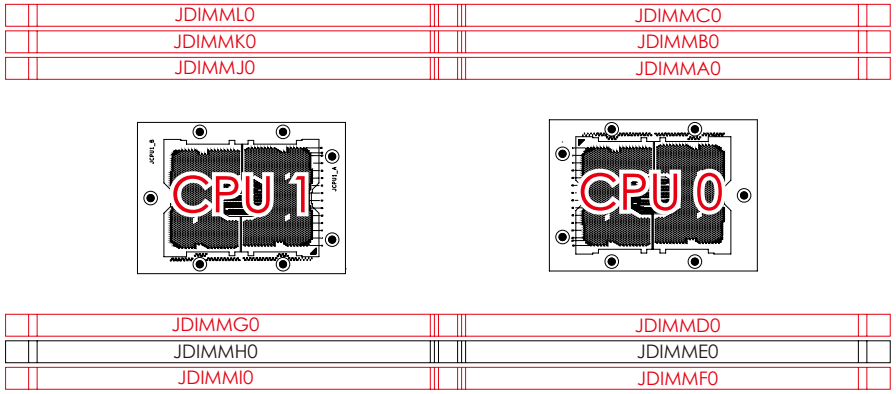
	CPU1	CPU0
6 DIMMs	JDIMM_L0	JDIMM_C0
	JDIMM_J0	JDIMM_A0
	JDIMM_I0	JDIMM_F0



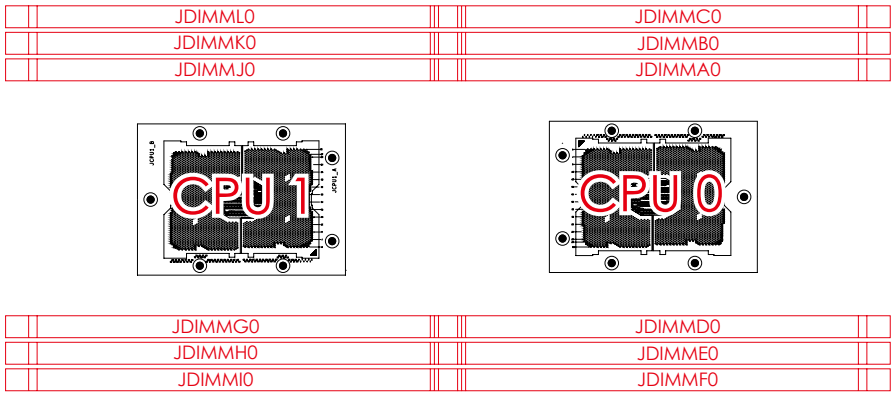
	CPU1	CPU0
8 DIMMs	JDIMM_L0	JDIMM_C0
	JDIMM_J0	JDIMM_A0
	JDIMM_G0	JDIMM_D0
	JDIMM_I0	JDIMM_F0



	CPU1	CPU0
10 DIMMs	JDIMM_L0	JDIMM_C0
	JDIMM_K0	JDIMM_B0
	JDIMM_J0	JDIMM_A0
	JDIMM_G0	JDIMM_D0
	JDIMM_I0	JDIMM_F0



	CPU1	CPU0
12 DIMMs	JDIMM_L0	JDIMM_C0
	JDIMM_K0	JDIMM_B0
	JDIMM_J0	JDIMM_A0
	JDIMM_G0	JDIMM_D0
	JDIMM_H0	JDIMM_E0
	JDIMM_I0	JDIMM_F0



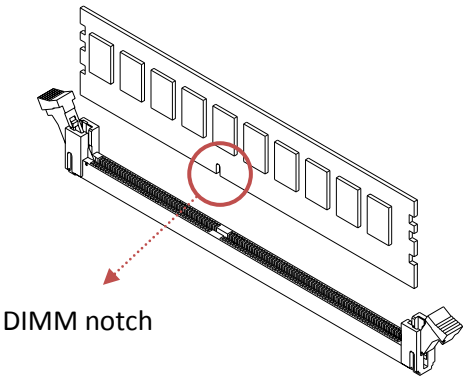
2.2.2 DIMM Installation Procedure

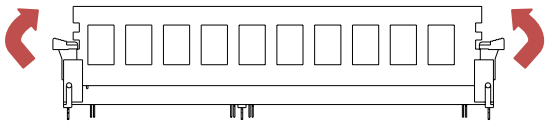
Unlock a DIMM socket by pressing the retaining clips outward.



Insert module vertically and press down until it snaps into place.

> NOTE: DIMM NOTCH AND SOCKET BUMP MUST ALIGN AS SHOWN.

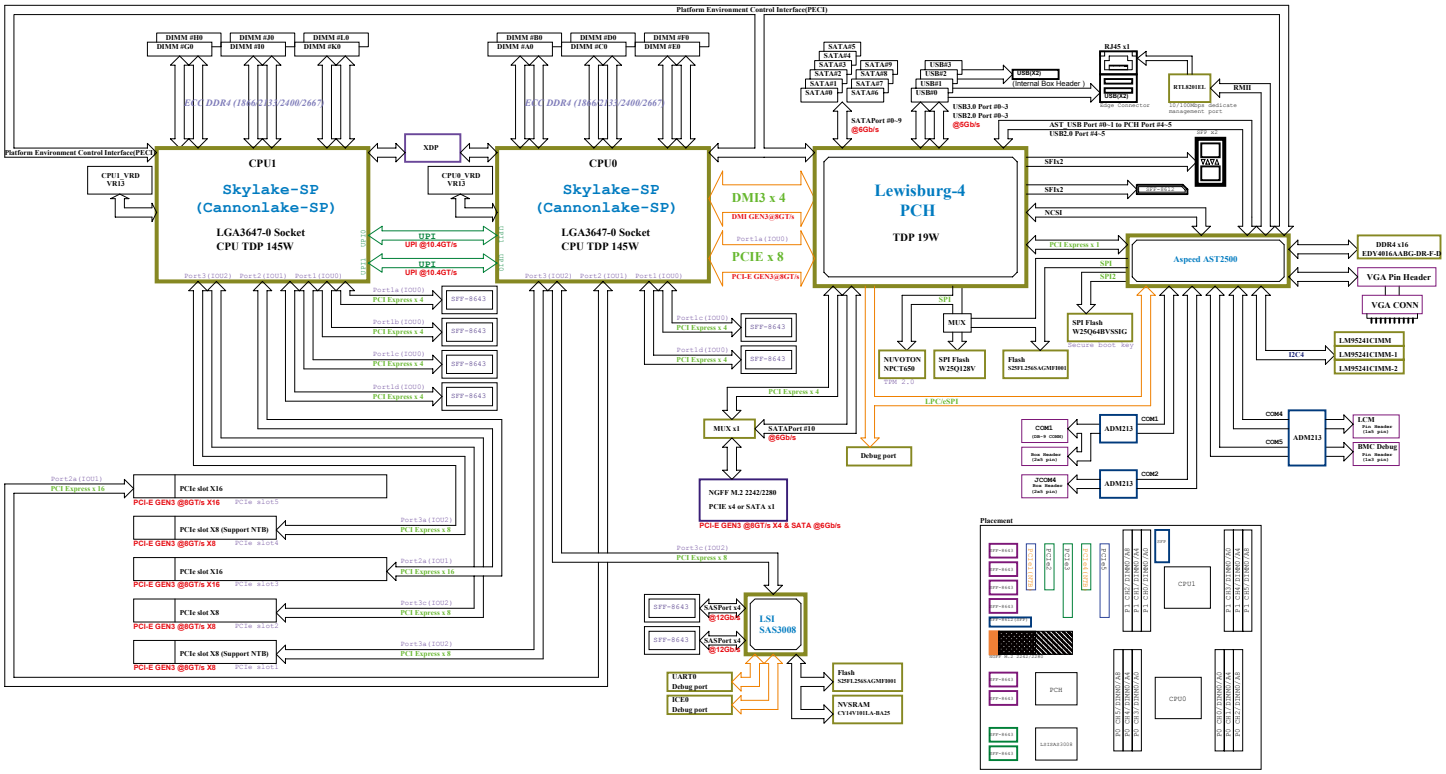




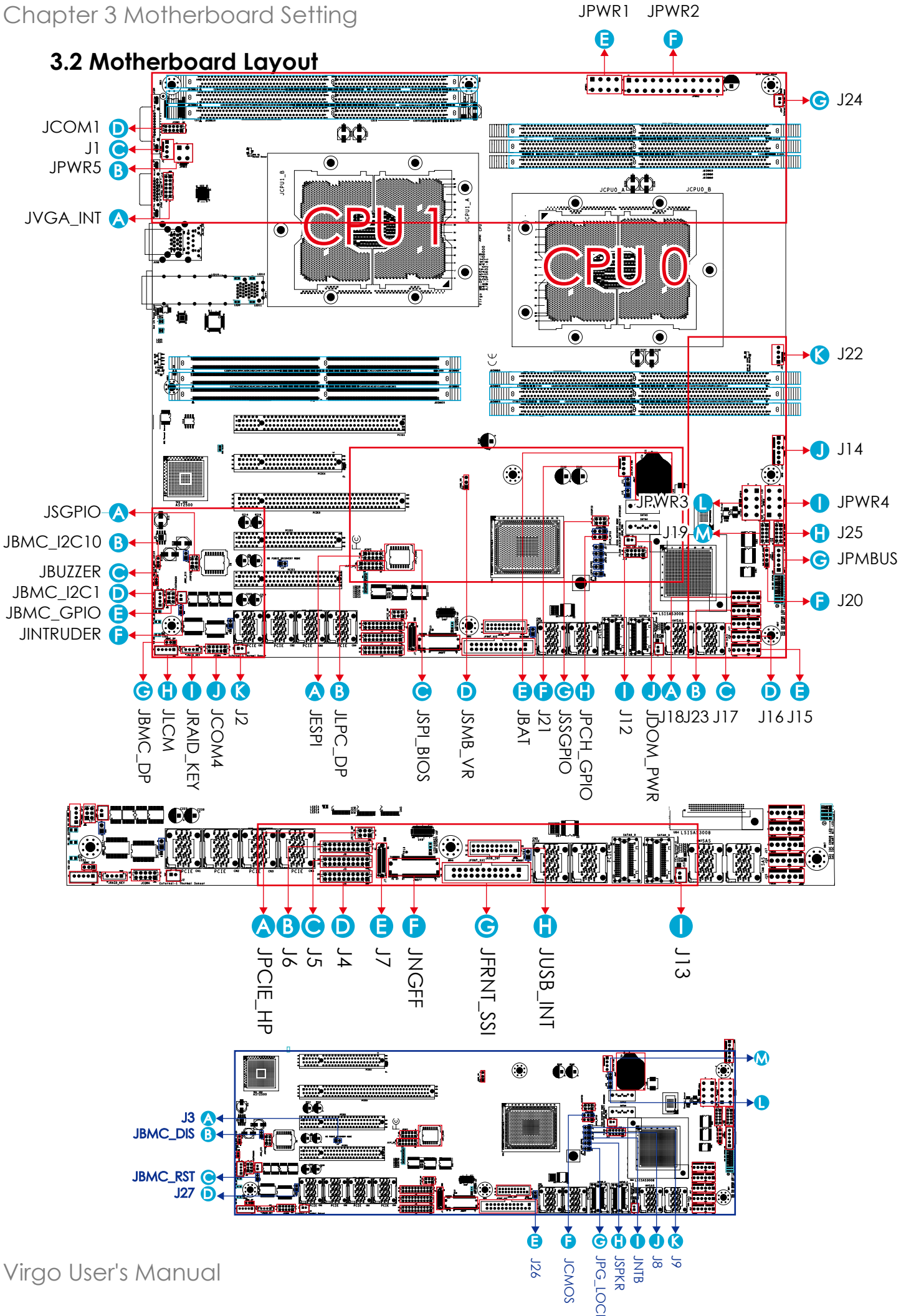
Chapter 3. Motherboard Settings

This section describes the jumpers, internal connectors, and internal LEDs setting on Virgo motherboard. Motherboard layout and important jumper settings are listed as below.

3.1 Motherboard block diagram



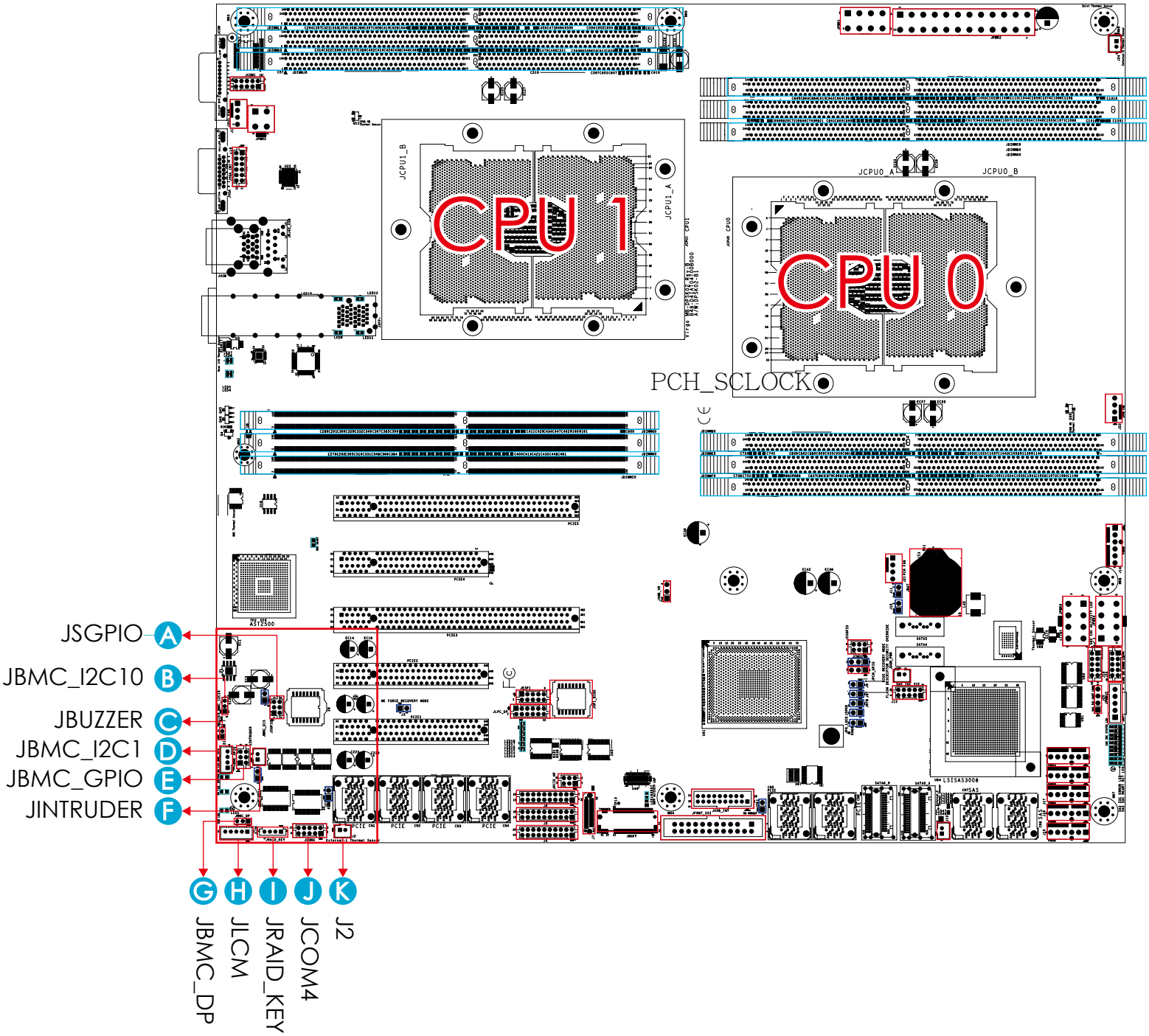
3.2 Motherboard Layout



3.3 Motherboard Content List

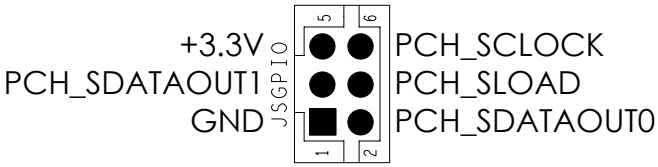
Connectors		Location	Connectors		Location
1	Power Supply	JPWR1	34	Speaker	JSPKR
2	Power Supply	JPWR2	35	BIOS Recovery Mode	J9
3	Power Supply	JPWR3	36	ME Force Recovery Mode	J3
4	Power Supply	JPWR4	37	Flash Descriptor Security override	J8
5	Power Supply	JPWR5	38	No Reboot (Watch Dog)	J26
6	SATA-DOM Power	JDOM_PWR	39	NTB (Non-Transparent Bridge)	JNTB
7	Front Panel	JFRNT_SSI	40	PCH GPIO	JPCH_GPIO
8	Serial ATA	SATA4、SATA5	41	NGFF	JNGFF
9	MINISAS	SATA0_3、SATA6_9	42	Internal 10GbE(Reserved)	J7
10	VGA	JVGA_INT	43	PCIE3.0	CN1~CN6
11	COM1	JCOM1	44	SAS3.0	CN7、CN8
12	COM4	JCOM4	45	External Thermal Sensor	J2、J13、J24
13	LCM	JLCM(COM3)	46	BMC Debug Port Select	J27
14	Front USB	JUSB_INT	47	VROC Key	JRAID_KEY
15	XDP CONN	JCPU_XDP	48	SATA4 PIN-7 Power	J10
16	DIMM Sockets	JEDEC Specified DDR4 Connector	49	SATA5 PIN-7 Power	J11
17	Debug Port	JLPC_DP	50	PCIE Hot-Plug SMB	JPCIE_HP
18	ESPI Port	JESPI	51	VRM SMB	JSMB_VR
19	BMC Debug Port	JBMC_DP	52	PCIE Hot-Plug Front Panel	J4(CN5&CN6)
20	BMC GPIO	JBMC_GPIO	53	PCIE Hot-Plug Front Panel	J5(CN3&CN4)
21	SGPIO	JSGPIO	54	PCIE Hot-Plug Front Panel	J6(CN1&CN2)
22	SSGPIO	JSSGPIO	55	CPU1 FAN CONN	J1
23	Clear CMOS	JCMOS	56	CPU0 FAN CONN	J22
24	BMC I2C10	JBMC_I2C10	57	PCH FAN CONN	J21
25	BMC IPMI	JBMC_I2C1	58	FAN1A CONN	J18
26	Battery Socket	JBAT	59	FAN1B CONN	J23
27	Intruder	JINTRUDER	60	FAN2A CONN	J17
28	PMBUS	JPMBUS	61	FAN2B CONN	J16
29	SPI ROM Socket	JSPI_BIOS	62	FAN3A CONN	J15
30	BMC Reset	JBMC_RST	63	FAN3B CONN	J14
31	BMC Disable	JBMC_DIS	64	SAS IOC UART	J20
32	BMC Buzzer	JBUZZER	65	SAS IOC ACTIVITY LED	J19
33	System PG Lock	JPG_LOCK	66	SAS IOC ERROR LED	J25
			67	SAS IOC ICE	J12

3.4 Internal Connectors/Jumpers

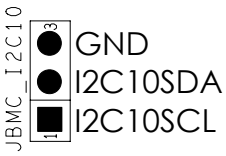


Internal Connectors/Jumpers

A JSGPIO



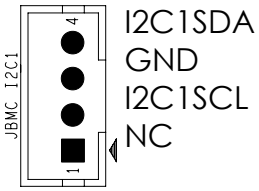
B JBMC_I2C10



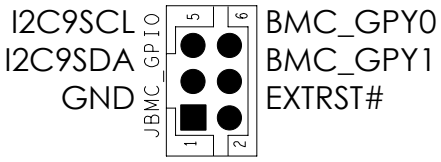
C JBUZZER



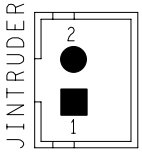
D JBMC_I2C1



E JBMC_GPIO



F JINTRUDER

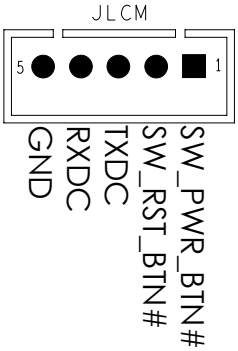


JINTRUDER	Setting	
Short	Case Open	
OFF	Enable	(Default)

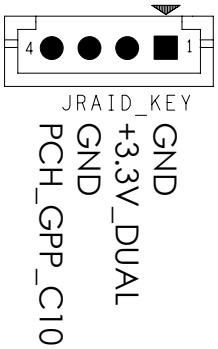
G JBMC_DP



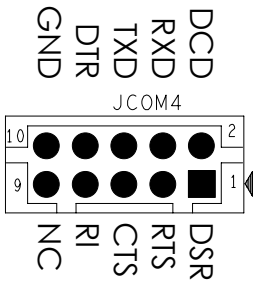
H JLCM



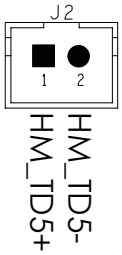
I JRAID_KEY



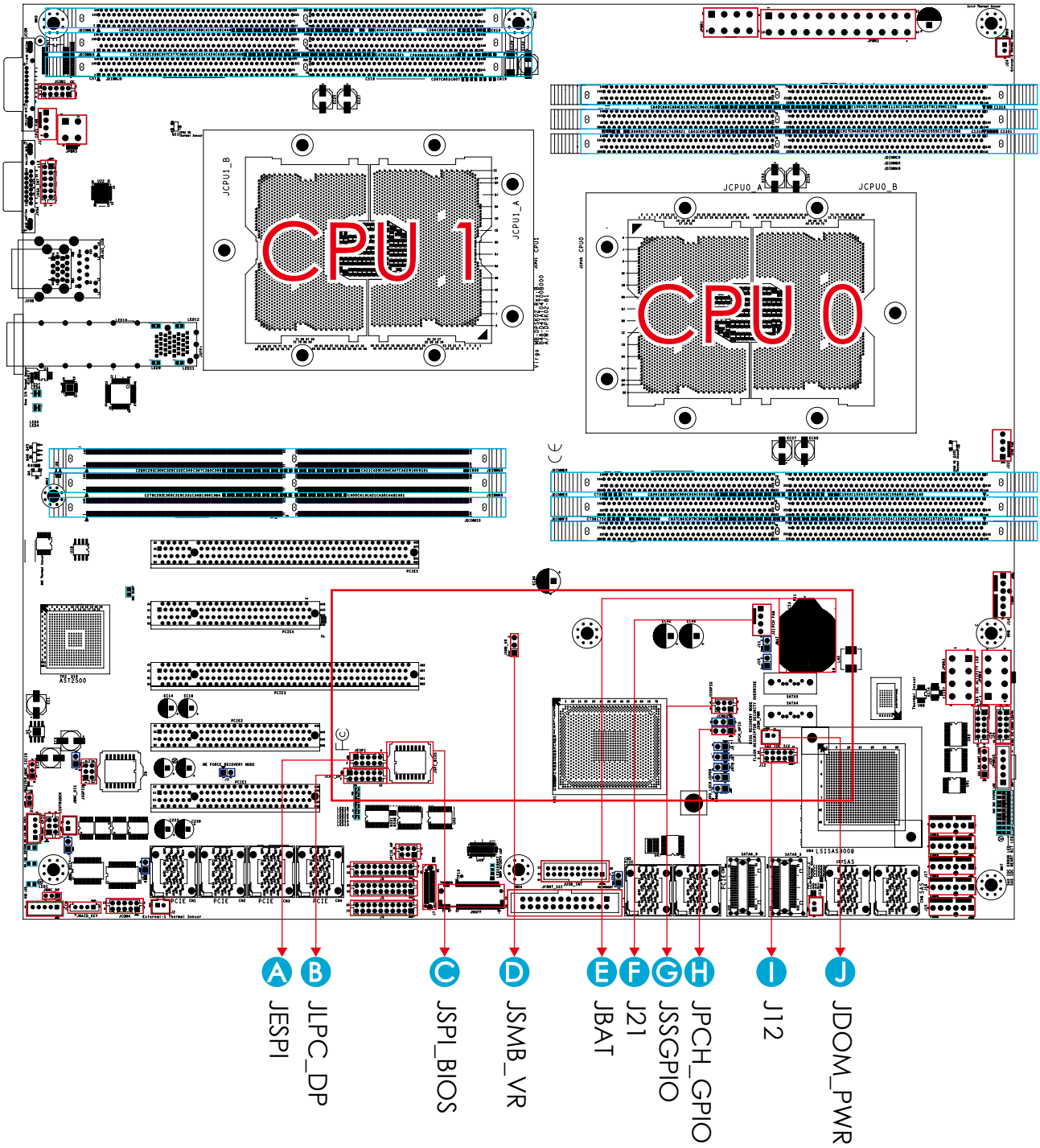
J JCOM4



K J2

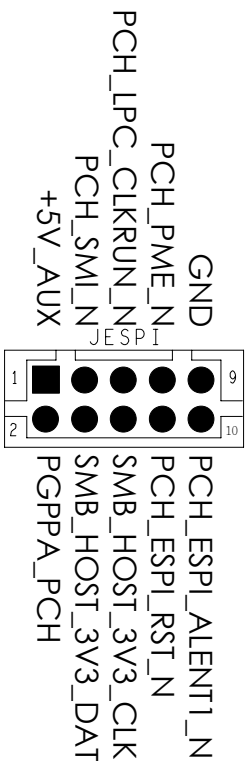


Internal Connectors/Jumpers

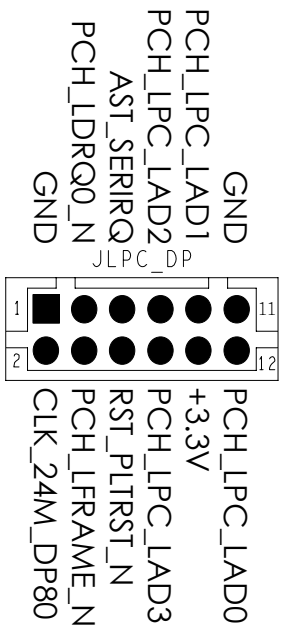


Internal Connectors/Jumpers

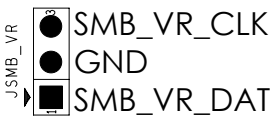
A JESPI



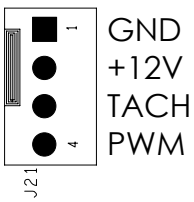
B JLPC_DP



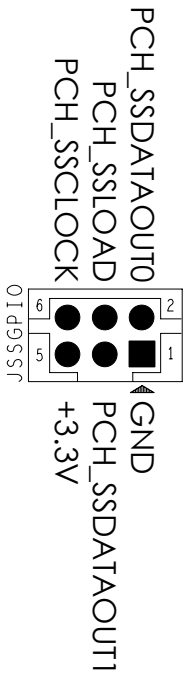
D JSMB_VR



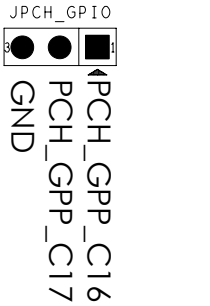
F J21



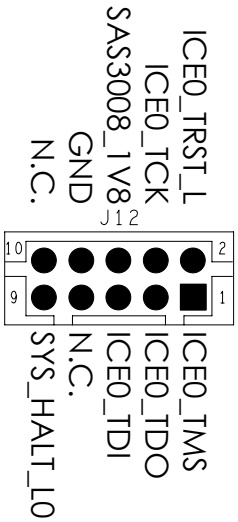
G JSSGPIO



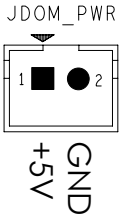
H JPCH_GPIO



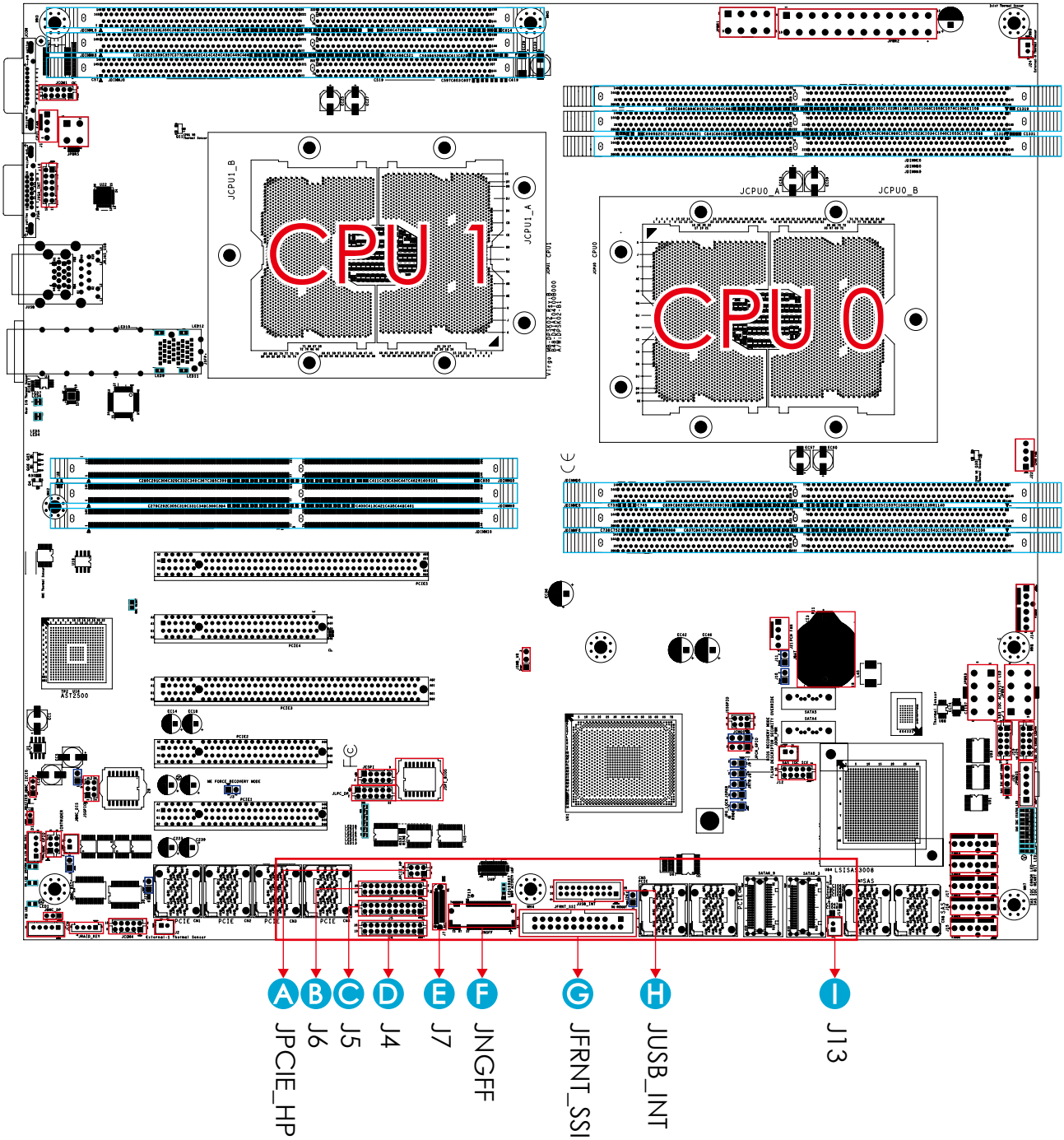
I J12



J JDOM_PWR

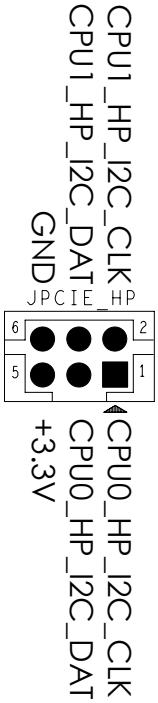


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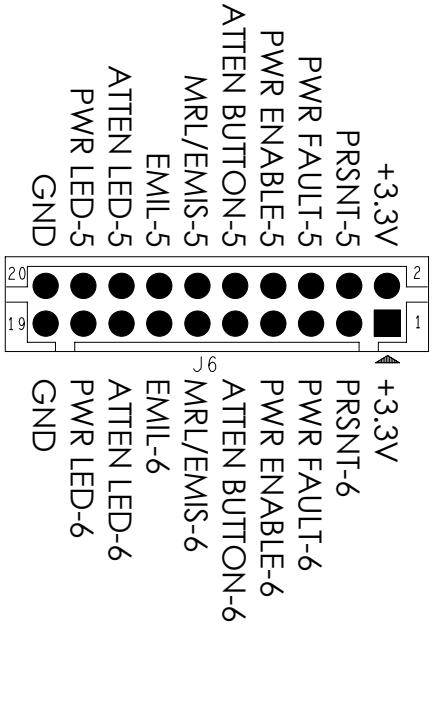


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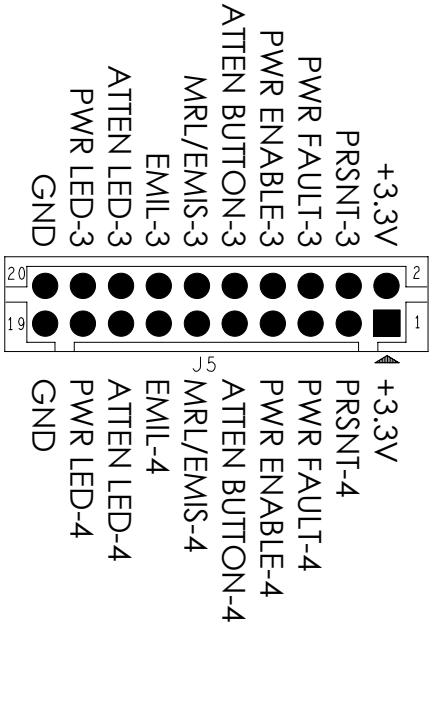
A JPCIE_HP



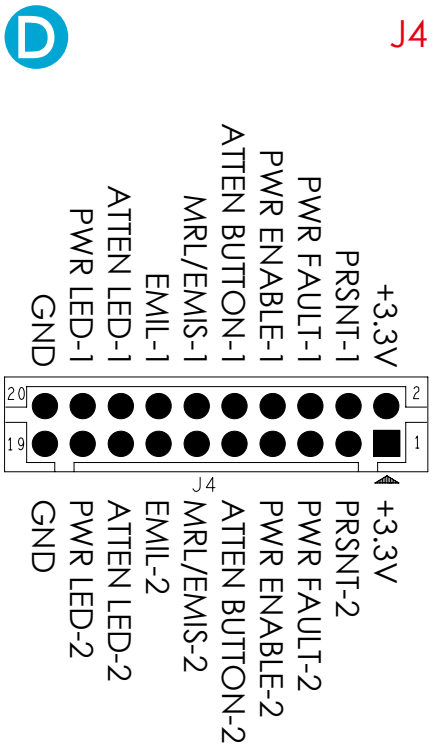
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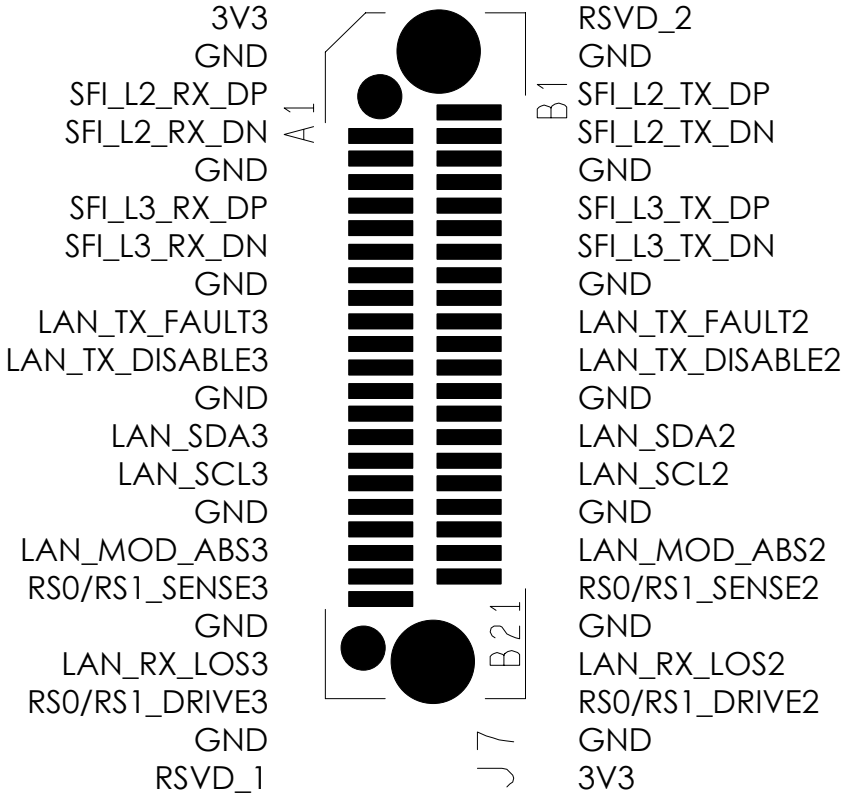
C J5



D J4



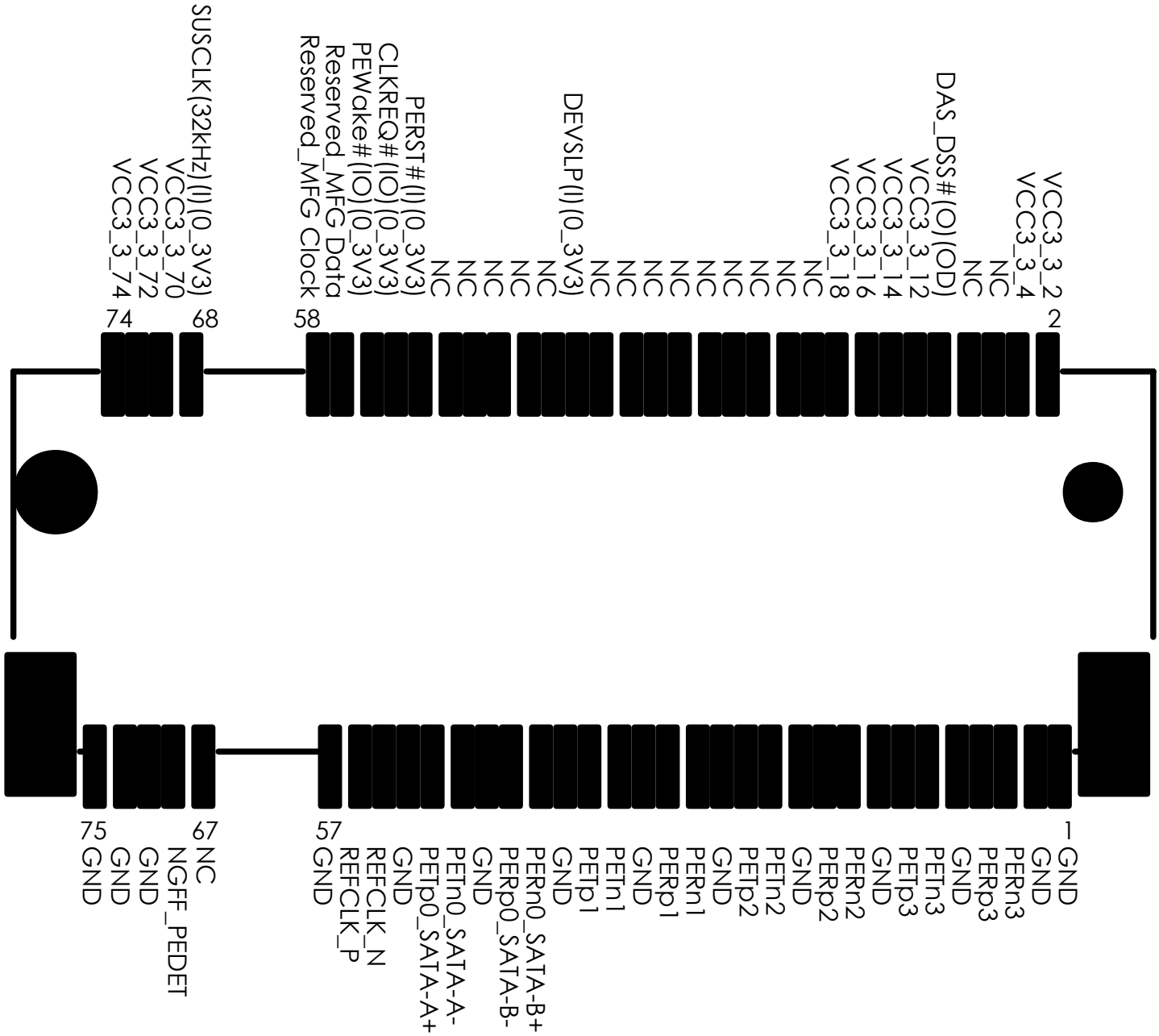
E J7



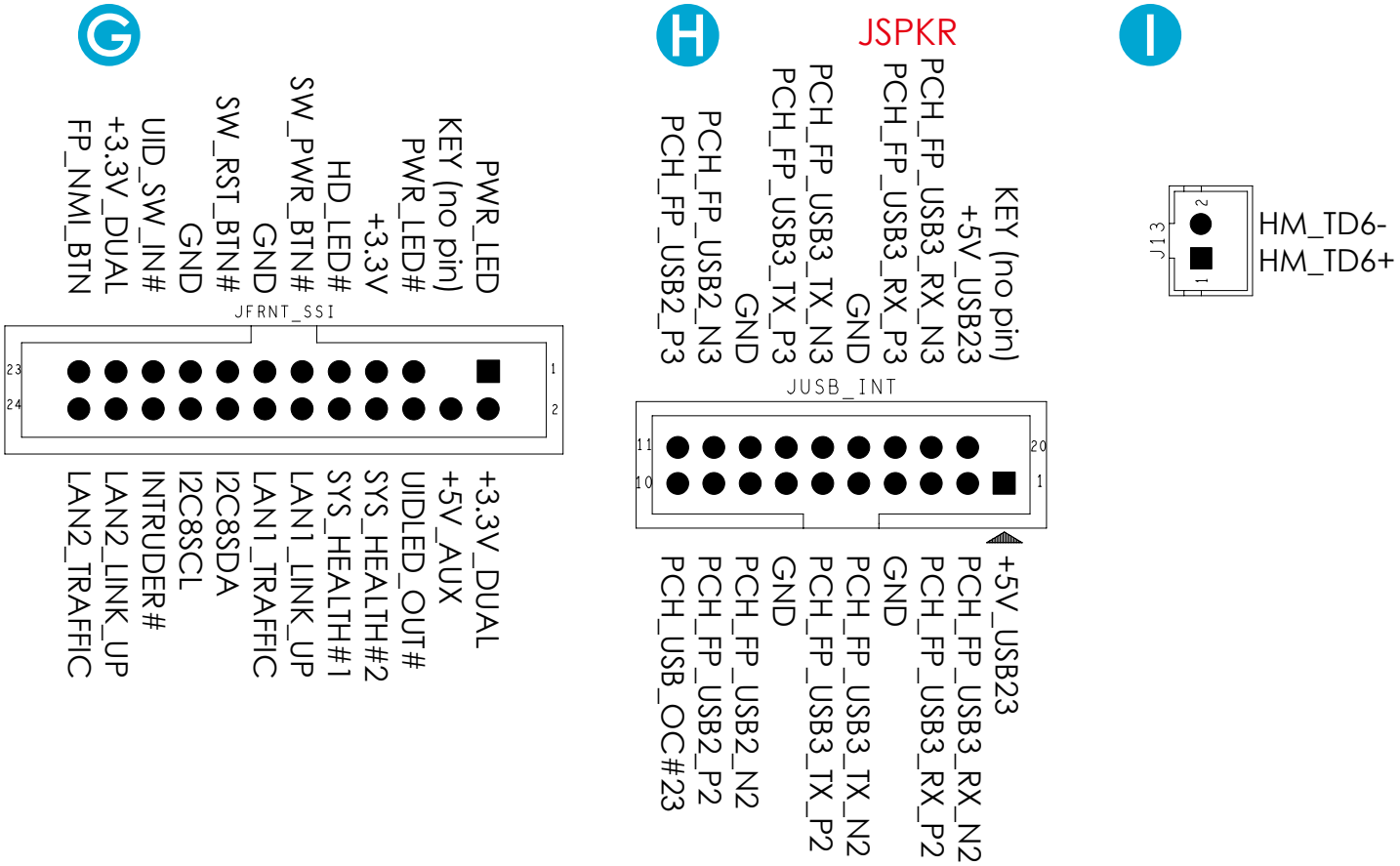
Internal Connectors/Jumpers

F

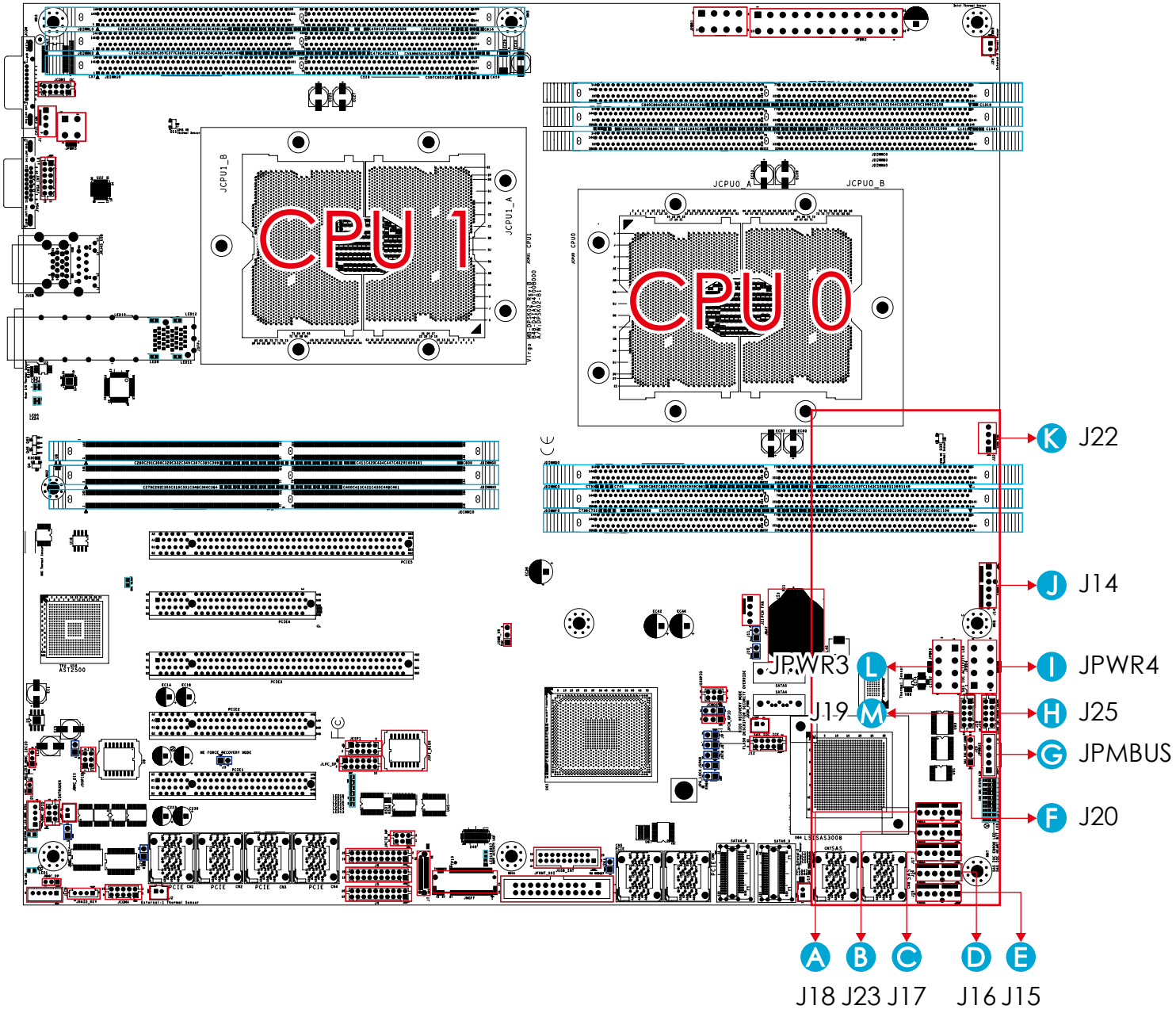
JNGFF



Internal Connectors/Jumpers

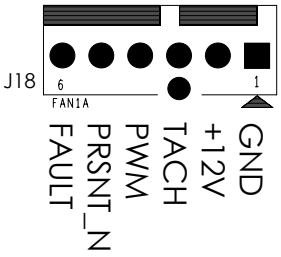


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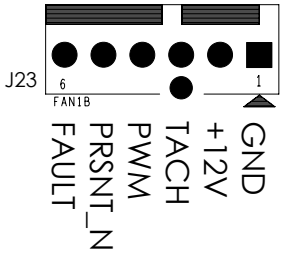


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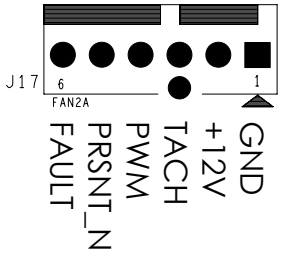
A J18



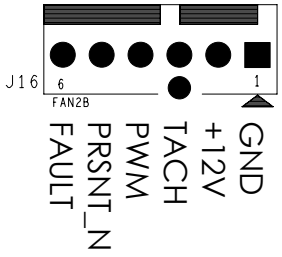
B J23



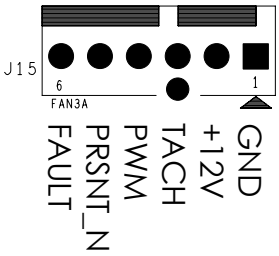
C J17



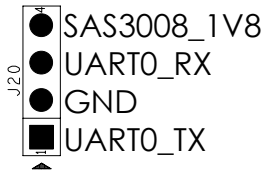
D J16



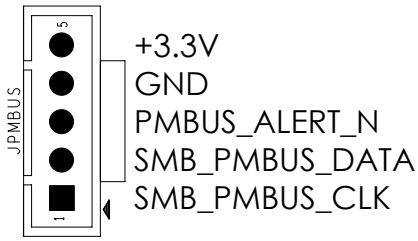
E J15



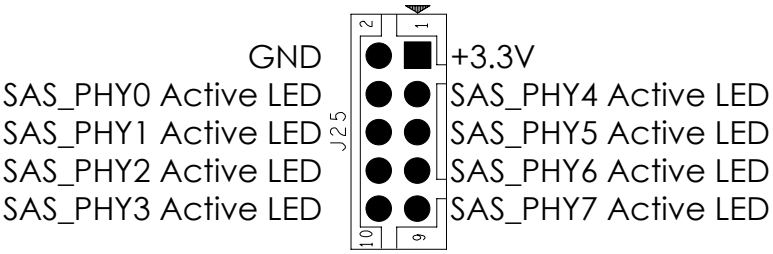
F J20



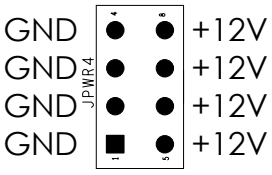
G JPMBUS



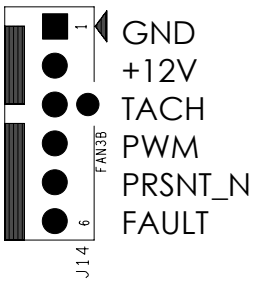
H J25



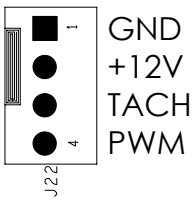
I JPWR4



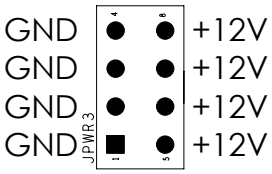
J J14



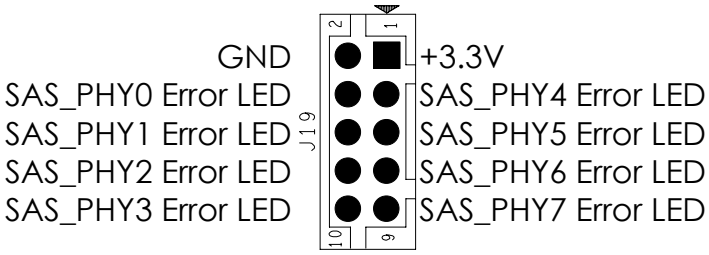
K J22



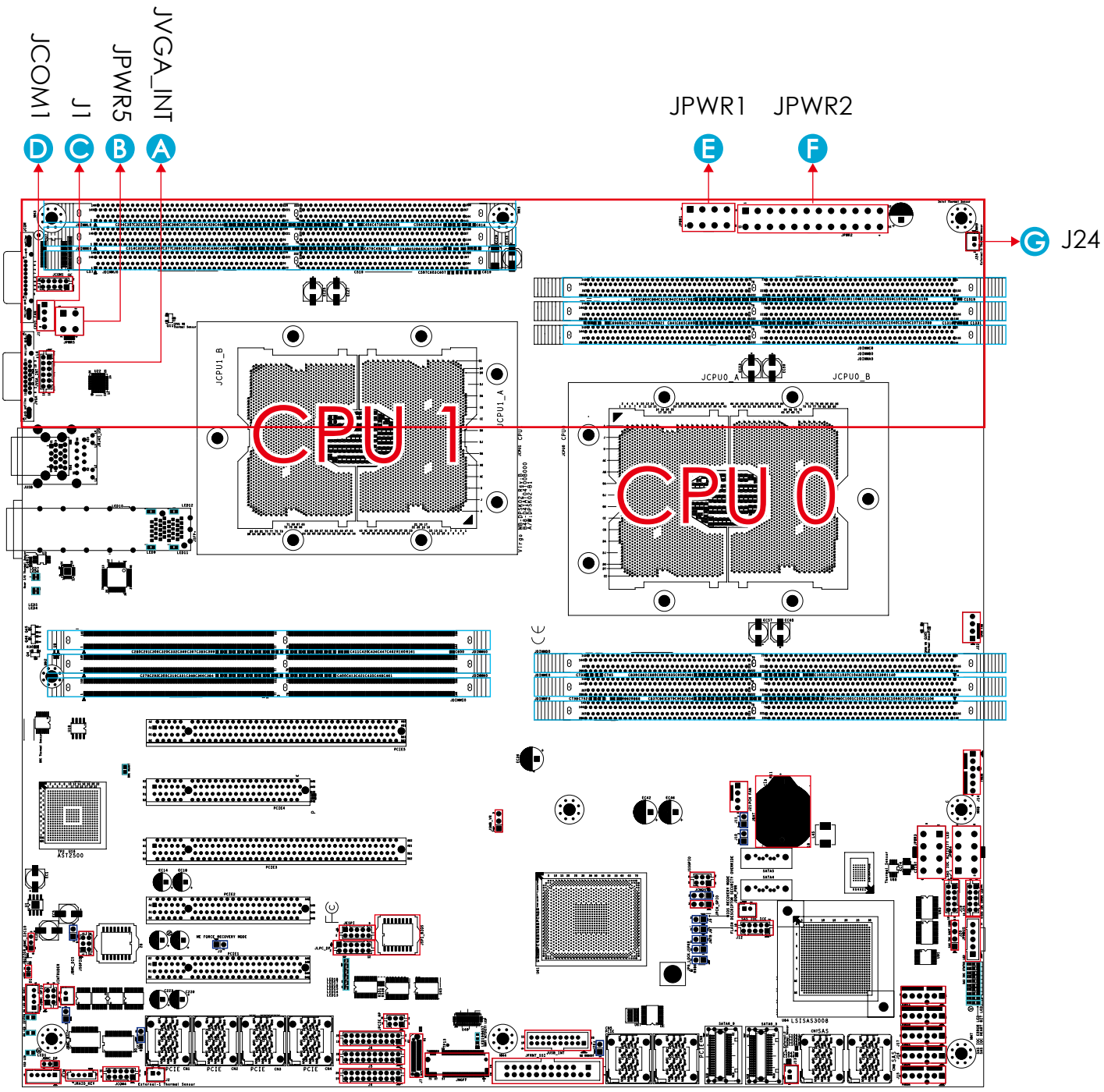
L JPWR3



M J19

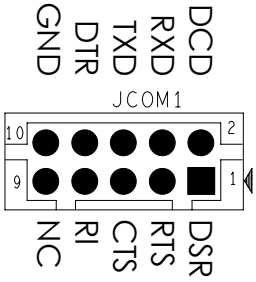


Internal Connectors/Jumpers

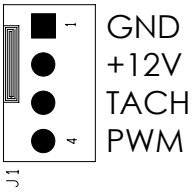


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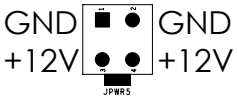
A JCOM1



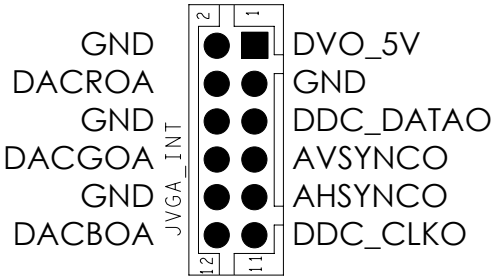
B J1



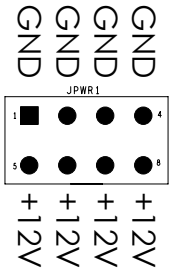
C JPWR5



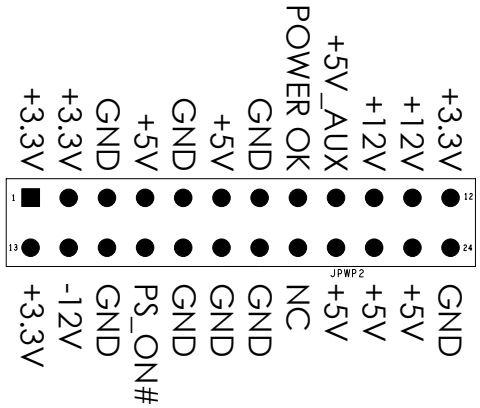
D JVGA_INT



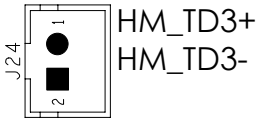
E JPWR1



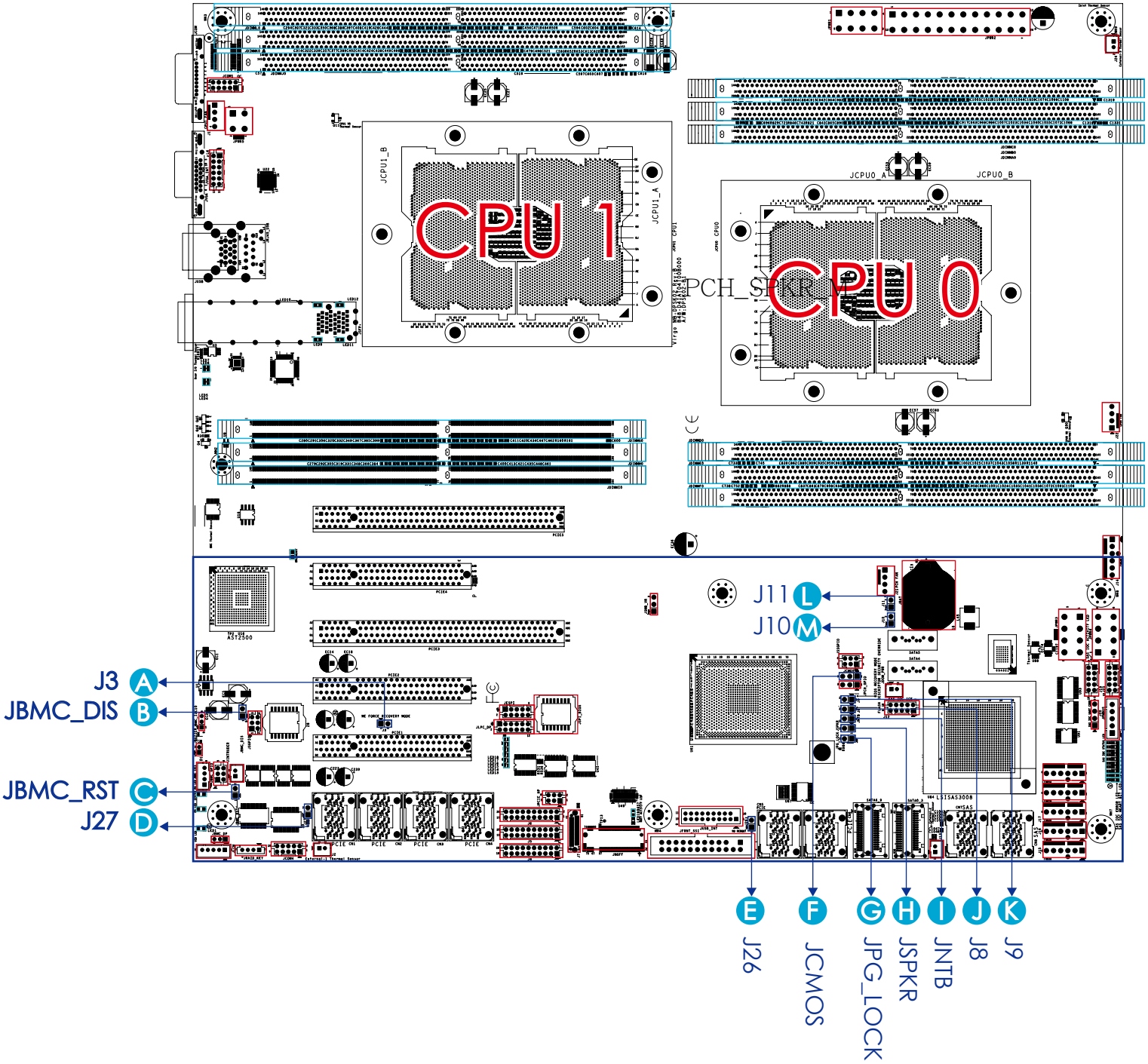
F JPWR2



G J24



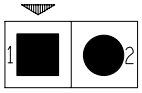
Internal Connectors/Jumpers



Internal Connectors/Jumpers

A J3

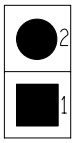
J3



J3	Setting	
Short	ME Recovery Mode	
Open	Normal	(Default)

B JBMC_DIS

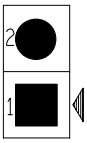
JBMC_DIS



JBMC_DIS	Setting	
Short	Disable	
Open	Normal	(Default)

C JBMC_RST

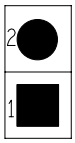
JBMC_RST



JBMC_RST	Setting	
Short	Reset BMC	
Open	Normal	(Default)

D J27

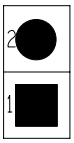
J27



J27 (BMC Debug port)	Setting	
Short	JCOM	
Open	JBMC_DP	(Default)

E J26

J26



J26 (No Reboot)	Setting	
Short	Enable	
Open	Disable	(Default)

F JCMOS

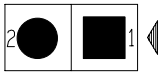
JCMOS



JCMOS	Setting	
Pin1-2	Normal	(Default)
Pin2-3	Clear CMOS	

G JPG_LOCK

JPG_LOCK



JPG_LOCK	Setting	
Short	Lock	
Open	Normal	(Default)

H JSPKR



I JNTB

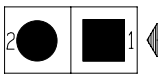
JNTB



JNTB	Setting	
Short	Downstream port	
Open	Upstream port	(Default)

J J8

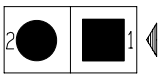
J8



J8	Setting	
Short	Flash Security override	
Open	Normal	(Default)

K J9

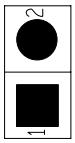
J9



J9	Setting	
Short	BIOS Recovery Mode	
Open	Normal	(Default)

L J10

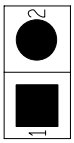
J10



J10	Setting	
Short	SATA4 PIN-7 Power	
Open	Normal	(Default)

M J11

J11



J11	Setting	
Short	SATA5 PIN-7 Power	
Open	Normal	(Default)

3.5 LEDs

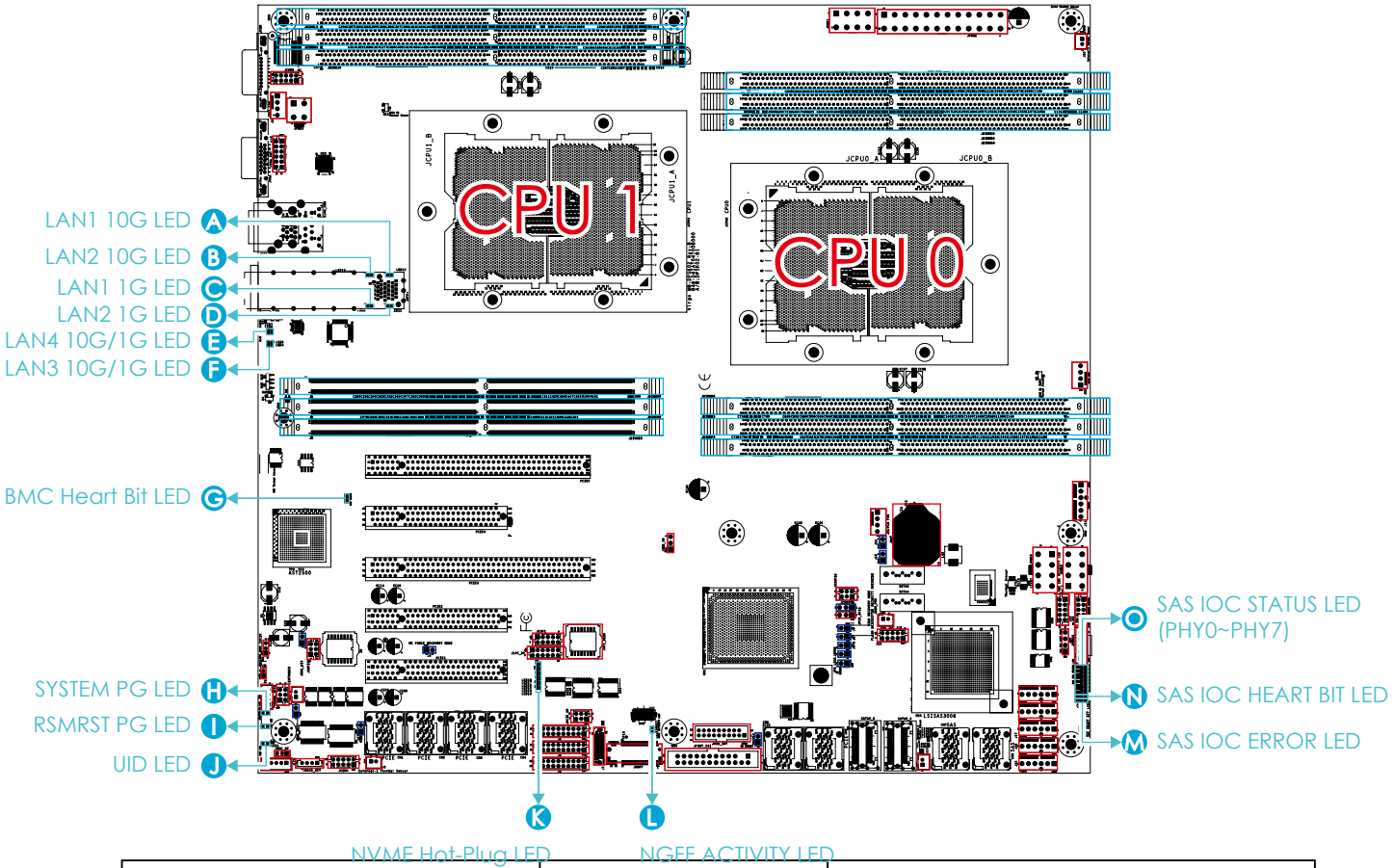
3.5.1 Front Panel LED Definition

Power	Yellow	System is On
	Blinking	System is in Standby; System is off, but has AC power
	Off	System has no AC power
UID	Blue	UID activity detected
	Off	No UID activity detected
System Fault-1	Red	Critical system failure detected (processors, memory, voltage regulators, thermal events,fan failures, NMI, etc)
	Off	No critical failures detected
System Fault-2	Red	Critical system failure detected (processors, memory, voltage regulators, thermal events,fan failures, NMI, etc)
	Off	No critical failures detected
Hard Disk	Green (Blinking)	Disk activity detected
	Off	No disk activity detected
NIC 1	Green (Blinking)	NIC1 activity detected
	Off	NIC is not active
NIC 2	Green (Blinking)	NIC2 activity detected
	Off	NIC is not active

3.5.2 Rear chassis LEDs

NIC 1 (Right Upward Triangle)	Yellow (Blinking)	1G link detected, activity detected
NIC 1 (Left Upward Triangle)	Green (Blinking)	10G link detected, activity detected
NIC 2 (Right Downward Triangle)	Yellow (Blinking)	1G link detected, activity detected
NIC 2 (Left Downward Triangle)	Green (Blinking)	10G link detected, activity detected
PHY 1 (Right)	Yellow (Blinking)	100M: Yellow 10M/No connect: Off
PHY 1 (Left)	Green	PHY1 activity detected
	Off	PHY1 is not active, LAN cable no connect

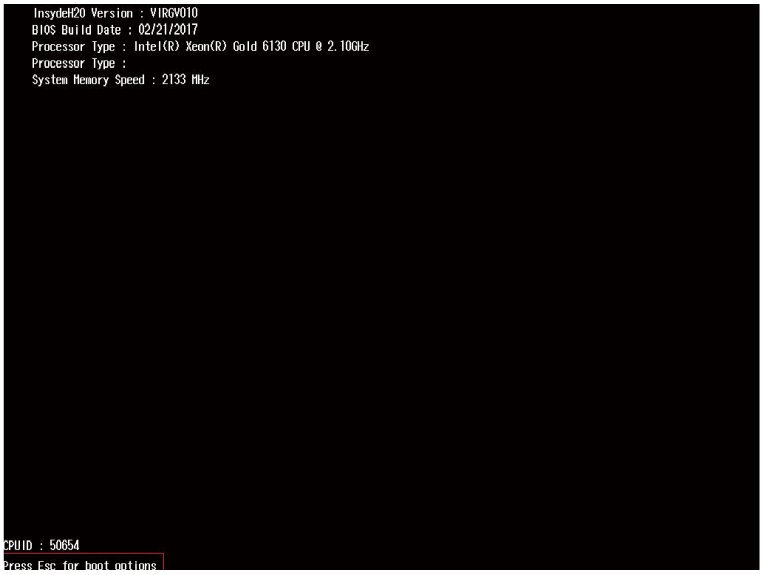
3.5.3 Internal LEDs Definition



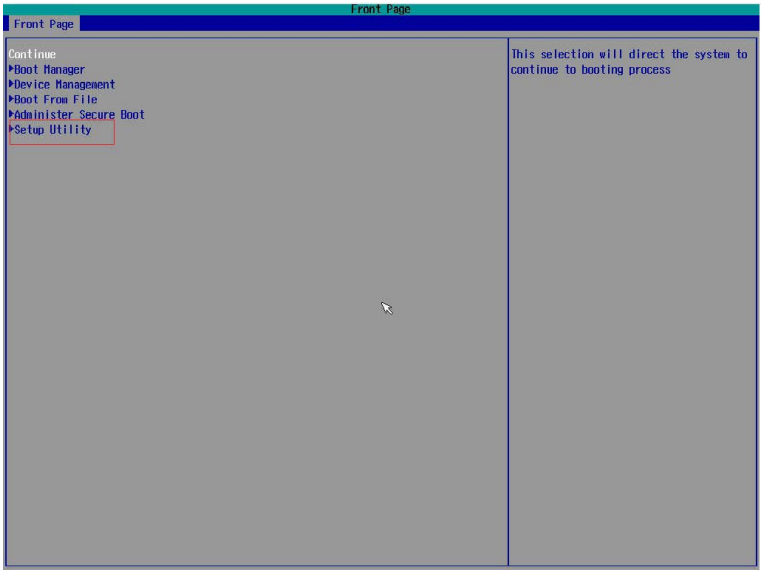
HEART BIT	Green (Blinking)	BMC activity detected
	OFF	BMC is not active
SYS PG LED	Green	System power good ready
	OFF	System power good is not ready
RSMRST PG LED	Yellow	Resume Well Reset ready
	OFF	Resume Well Reset is not ready
SAS IOC STATUS LED	Green(Blinking)	PHY0-7 activity detected
	OFF	PHY0-7 not activity detected
SAS IOC HEART BIT LED	Green(Blinking)	SAS IOC activity detected
	OFF	SAS IOC not activity detected
SAS IOC ERROR LED	Yellow	SAS IOC failure detected
	OFF	SAS IOC not failure detected
NIC 3 10G LED	Yellow (Blinking)	10G link detected, activity detected
NIC 3 1G LED	Green (Blinking)	1G link detected, activity detected
NIC 4 10G LED	Green (Blinking)	10G link detected, activity detected
NIC 4 1G LED	Yellow (Blinking)	1G link detected, activity detected
NGFF ACTIVITY LED	Blue(Blinking)	NGFF activity detected
	OFF	NGFF not activity detected

CAUTION: WHEN QUIET BOOT IS ENABLED, OEM LOGO WILL BE DISPLAYED INSTEAD OF POST MESSAGES.

Press ESC to run the setup procedure.

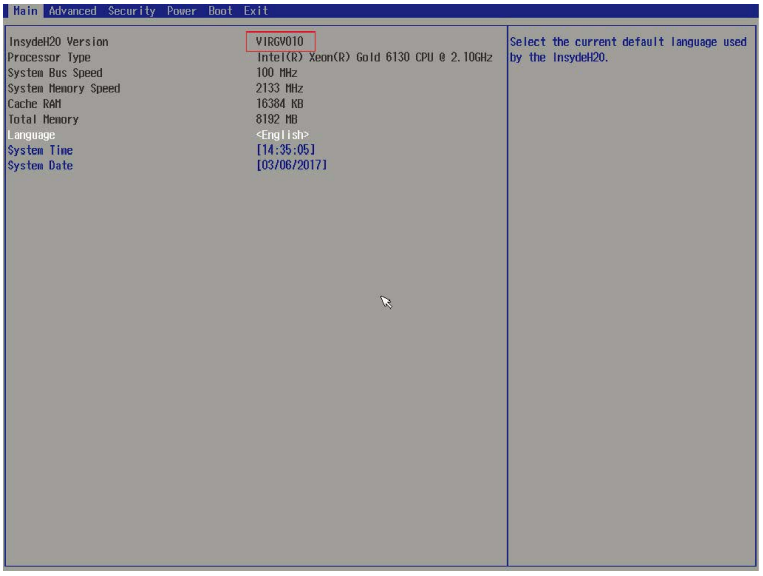


There will be a message "Entering SETUP" displayed on the diagnostics screen.

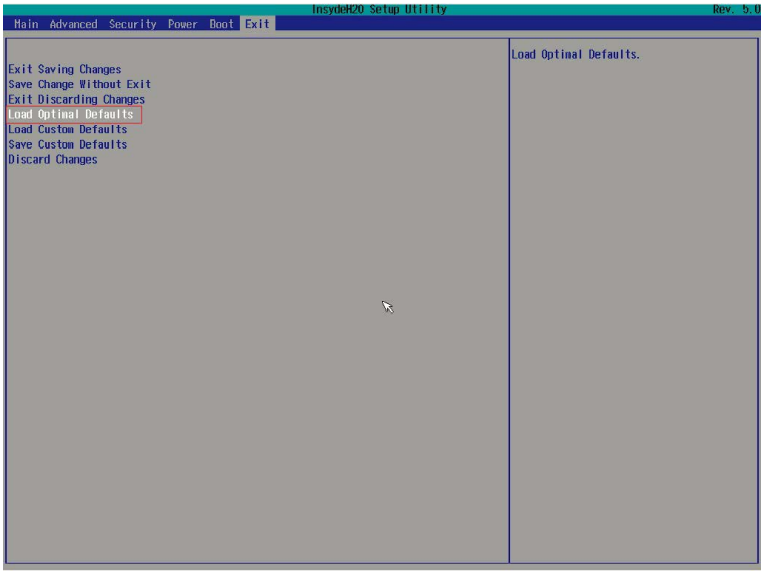


CAUTION: FOR THE OFFICIAL RELEASED VERSION, THE LAST DIGIT OF THE BIOS VERSION MUST END IN AN "0."

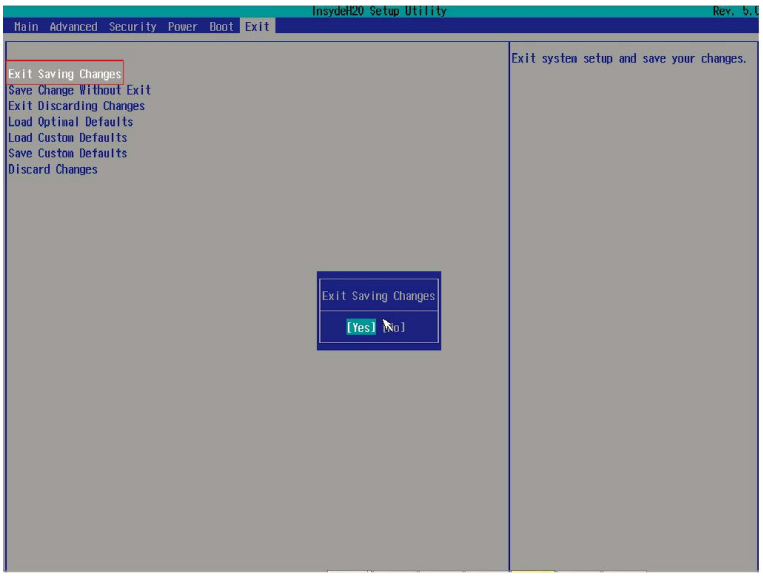
Identify the BIOS Version



Load Optimal Default setting



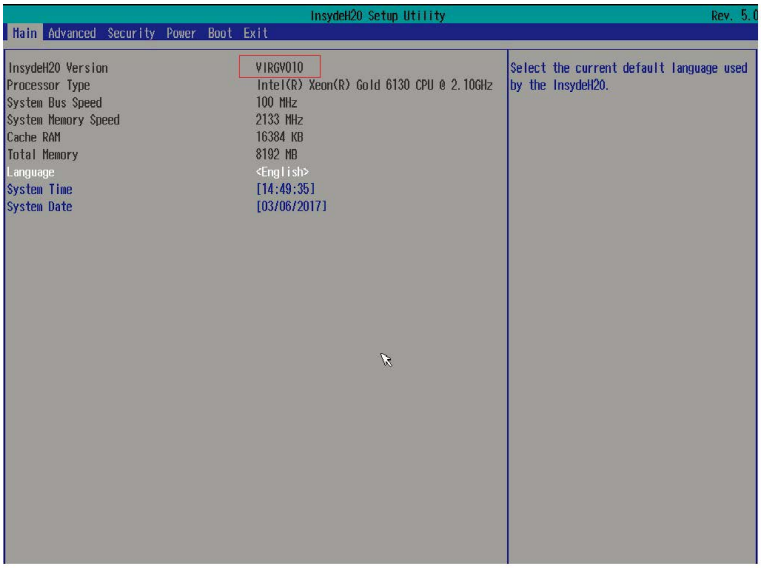
Save the setting and exit the BIOS setup utility.



4.1 Updating BIOS

Important Notes:

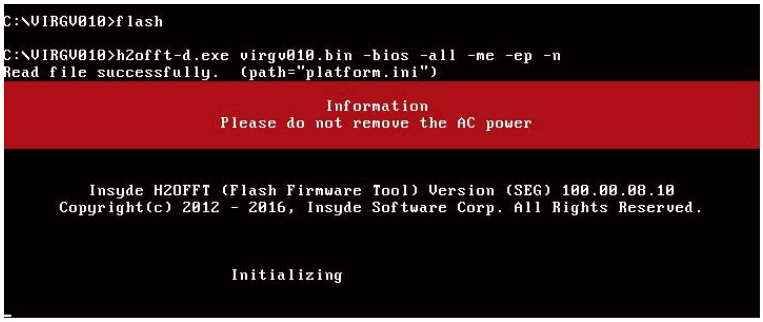
To identify the current BIOS version, please check out on BIOS setup.



Update BIOS by INSYDE H2OFFT-D utility under DOS environment

If you need to update Flash in the DOS environment, please use H2OFFT-D utility. To use this utility, you must include the flash.bat , H2OFFT-D.exe, and bin file in the same folder. Please follow the instructions to update whole flash part:

Execute flash.bat to update Flash in the DOS environment.

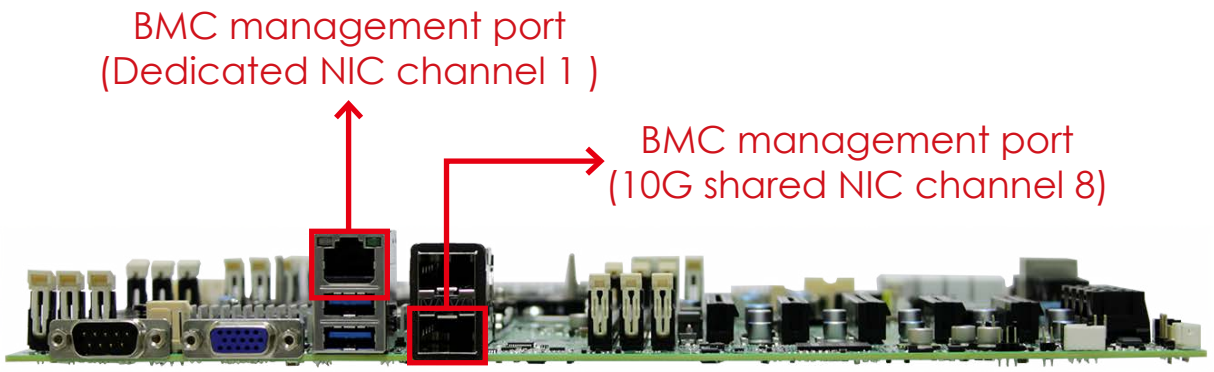


Reboot system.



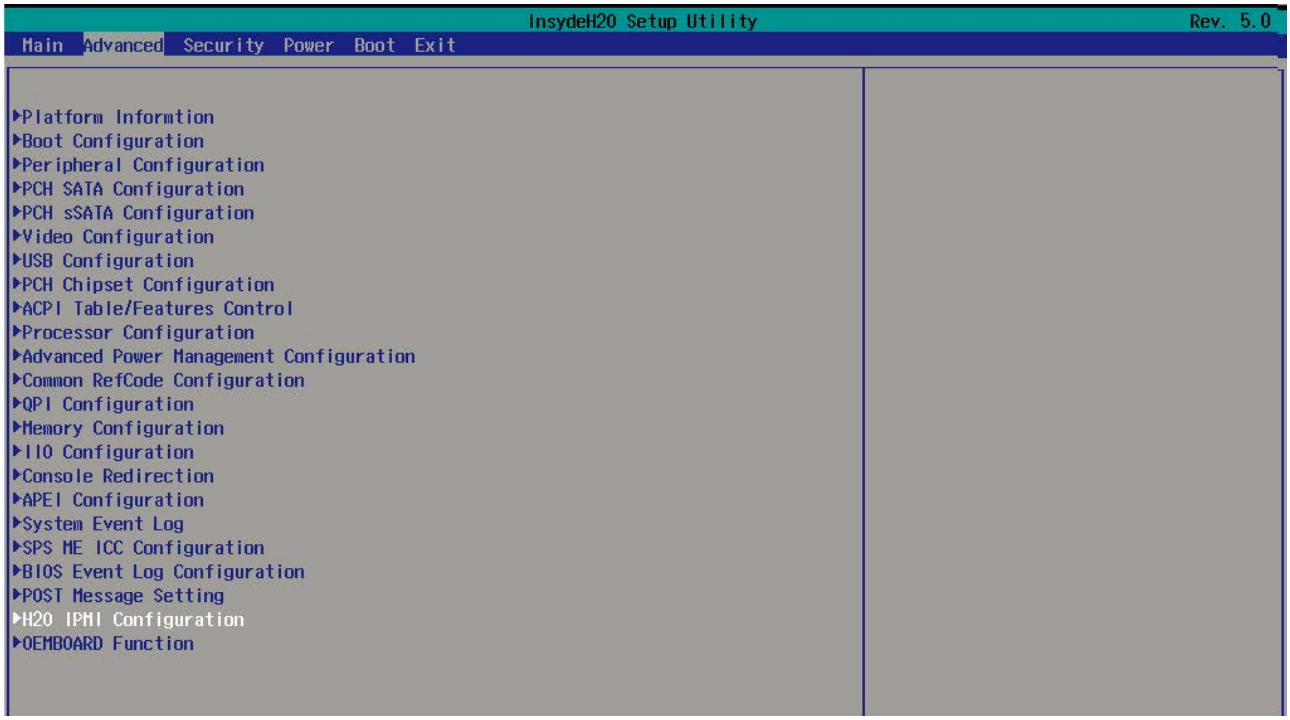
Chapter 5. BMC Configuration and Settings

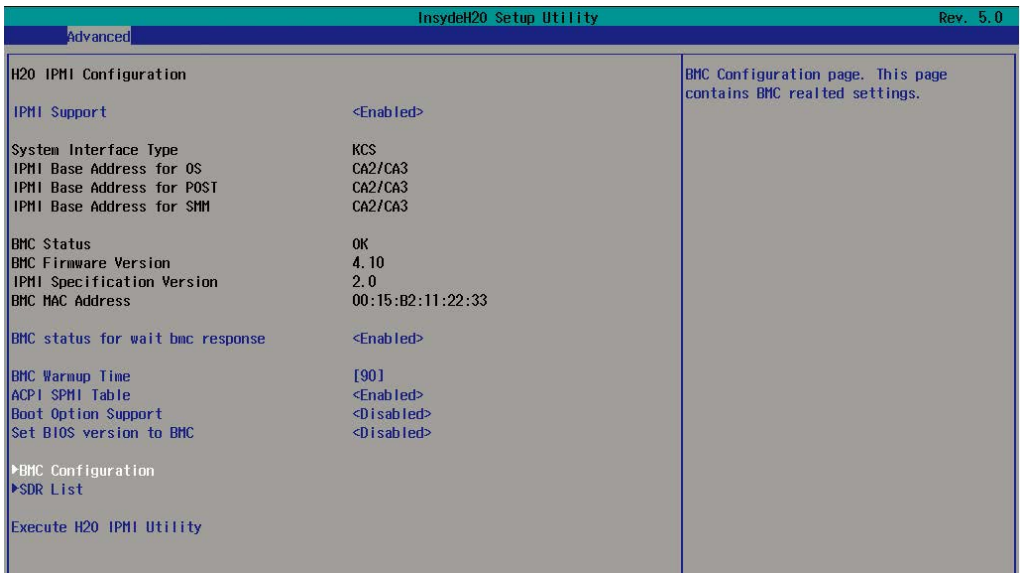
Insert Ethernet LAN cable into the BMC LAN port. There are two methods to setup BMC IP:

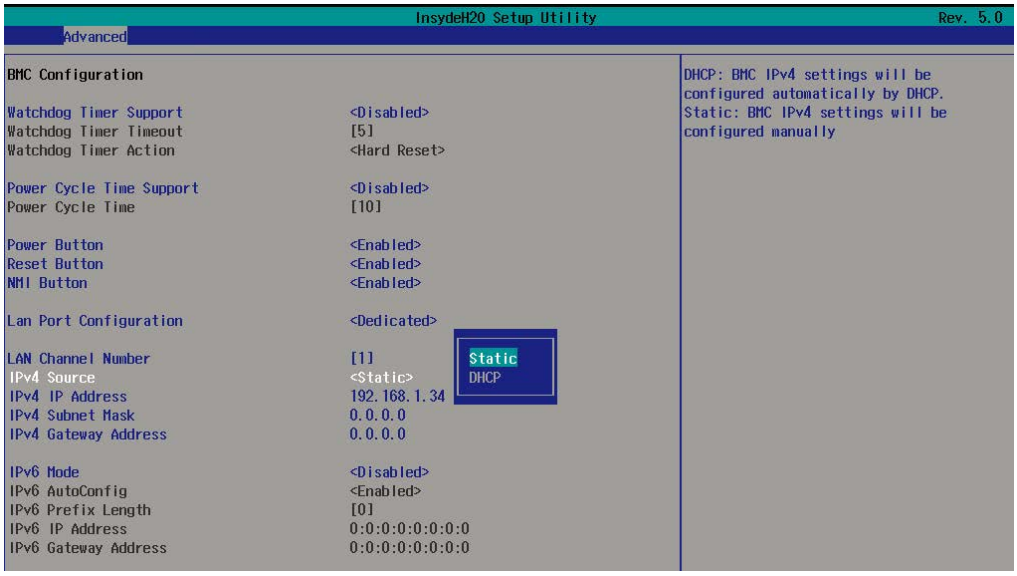


5.1 Method 1 (Use the BIOS setup)

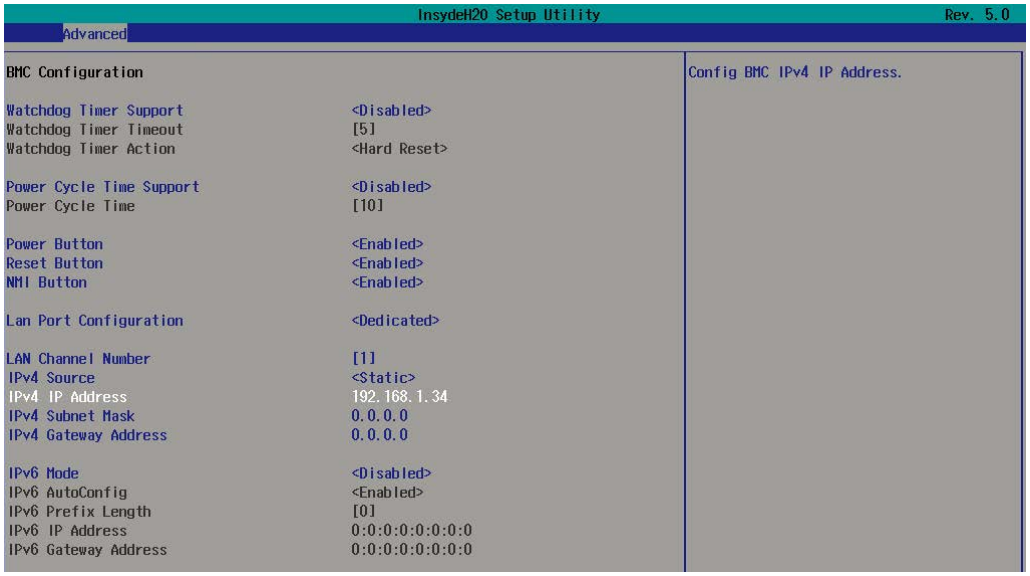
- BIOS SETUP → Advanced → H2O IPMI configuration → BMC Configuration → IPv4 source → Static



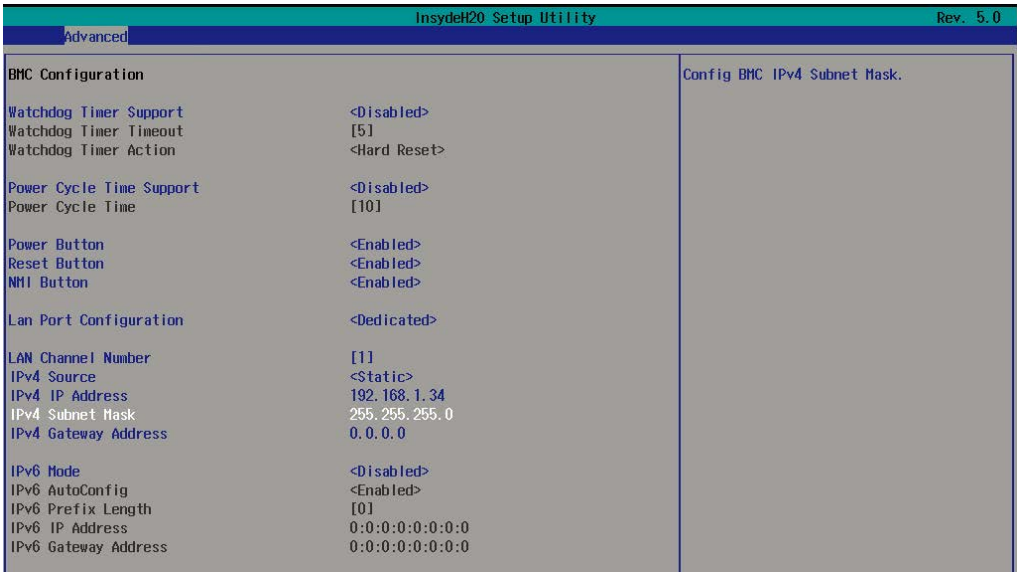




1. Input IP address. Set static IP.



2. Input subnet mask address.

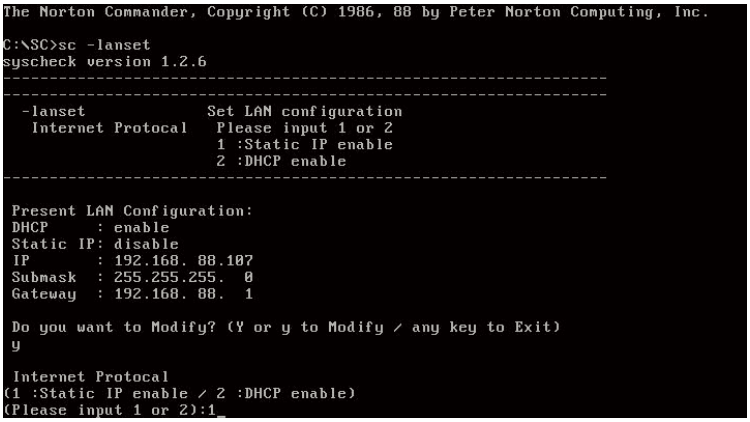


5.2 Method 2 (Use a Dos tool - Syscheck)

1. Type : sc –lanset

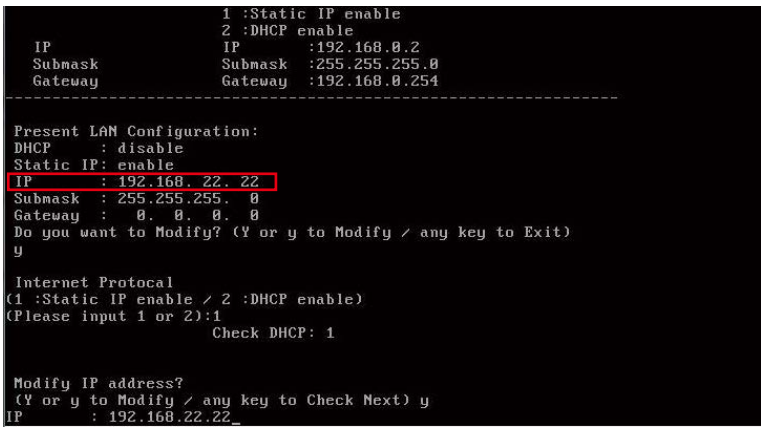


2. Modify IP setting

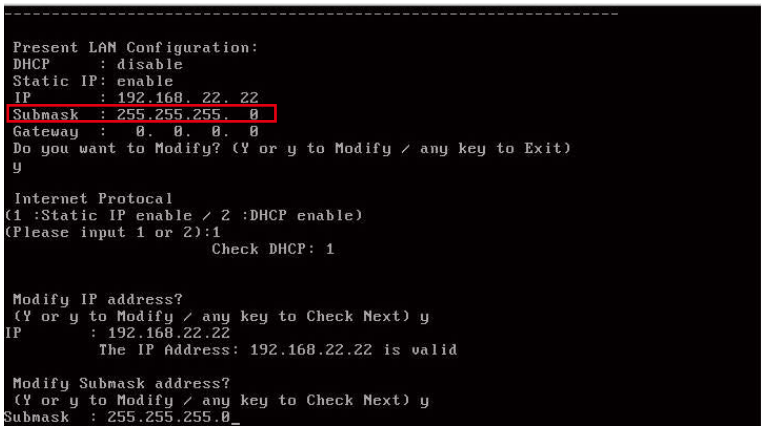


> **Note:** Type 1 for selecting static IP mode or type 2 for selecting DHCP mode.

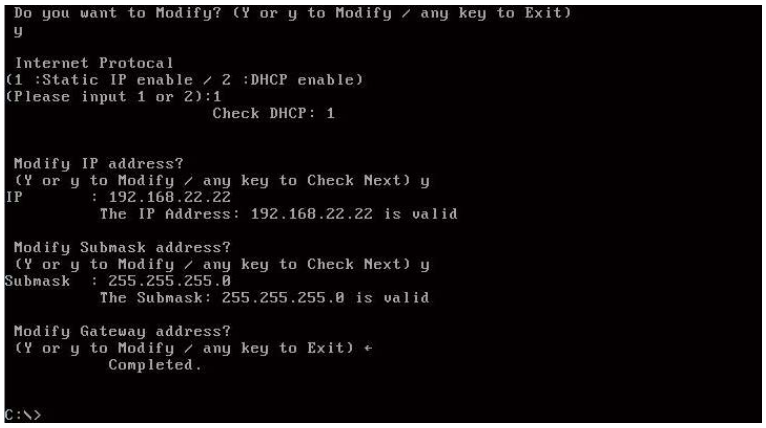
3. Input IP address



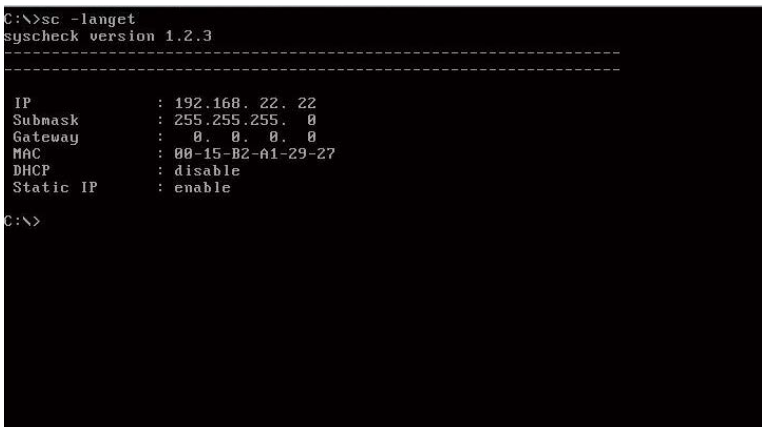
4. Input submask address.
   Below IP address is an example using a default IP setting. User is allowed to change the IP address for realistic use.



5. Finish BMC IP configuration.



Note: Type sc.exe –langet command to obtain BMC IP and MAC address.

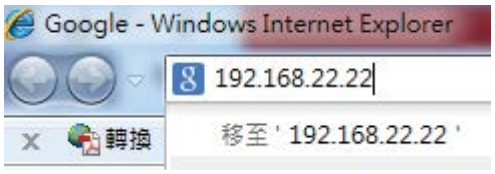


5.3 Connect to BMC

> NOTE :
> THIS FEATURE WORKS WITH JAVA 6 RUNTIME INSTALLED CONSOLE ENVIRONMENT.

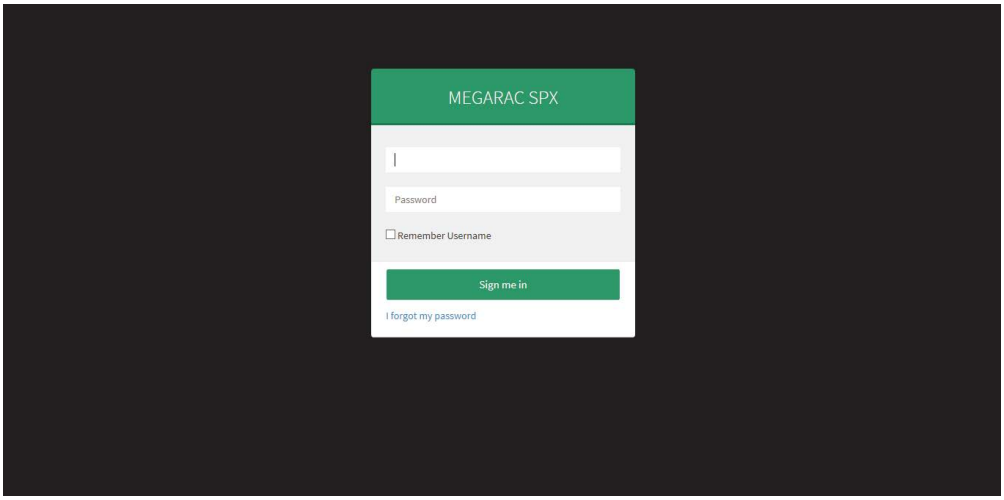
Below IP address is an example using default IP setting. User is allowed to change the IP address for realistic use.

1. Open the browser then type default BMC IP address: 192.168.22.22



2. Use the default user name and password for first-time login to BMC WEB GUI.

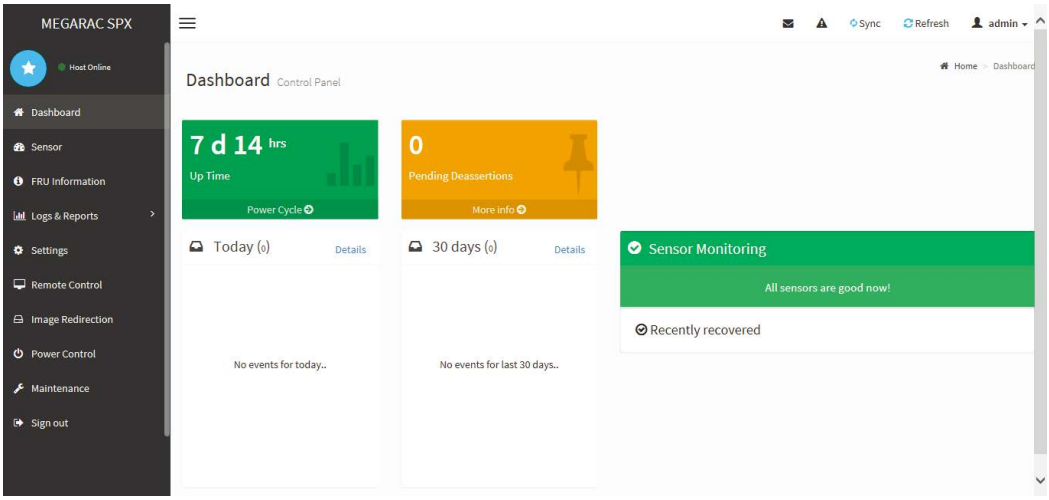
Field:	Default
UserName:	admin
Password:	admin



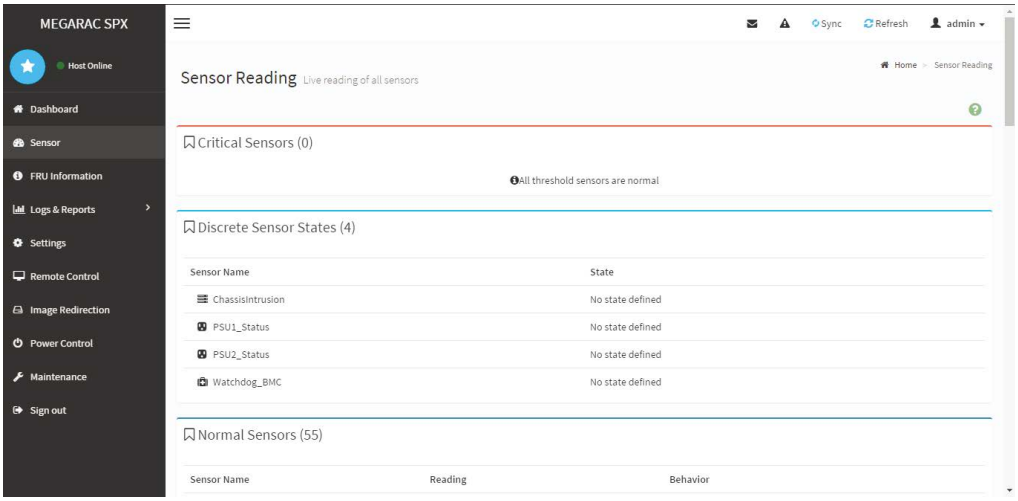
> NOTE :
> THE DEFAULT USER NAME AND PASSWORD ARE IN LOWER-CASE CHARACTERS.

> NOTE :
> USERS WHO LOGIN WITH THE ROOT USER NAME AND PASSWORD WILL HAVE FULL ADMINISTRATIVE POWER. THE ROOT PASSWORD CAN BE CHANGED AFTER LOGIN.

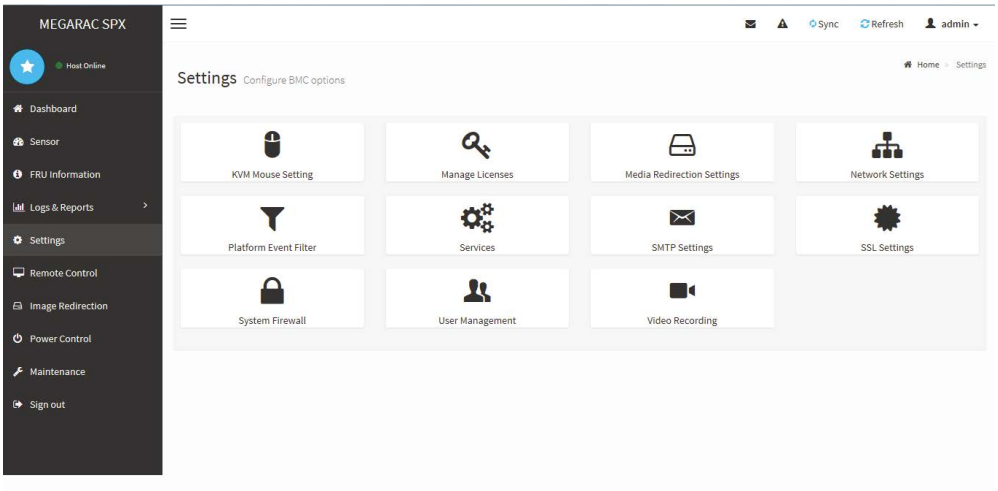
3. Information of firmware.



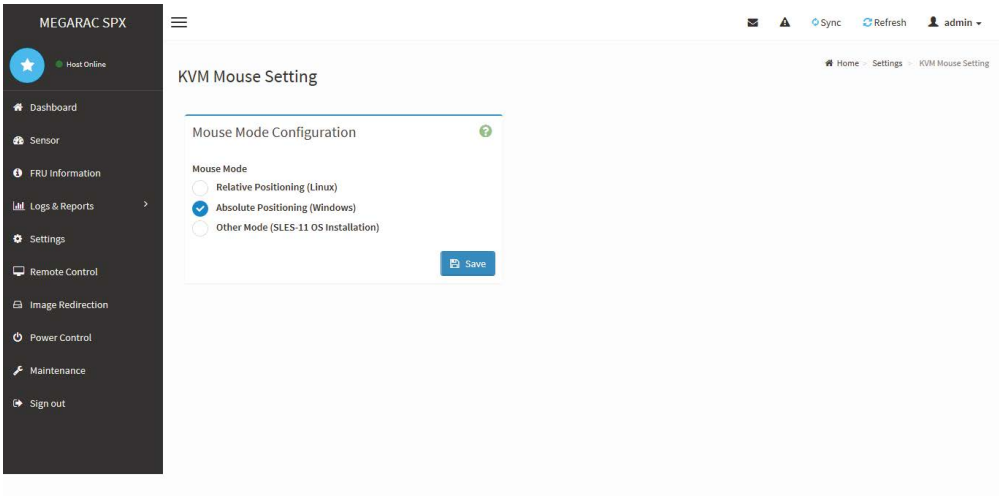
4. Sensor Readings:



5. Settings：Please refer to AIC BMC User Guide for more information on AIC BMC.

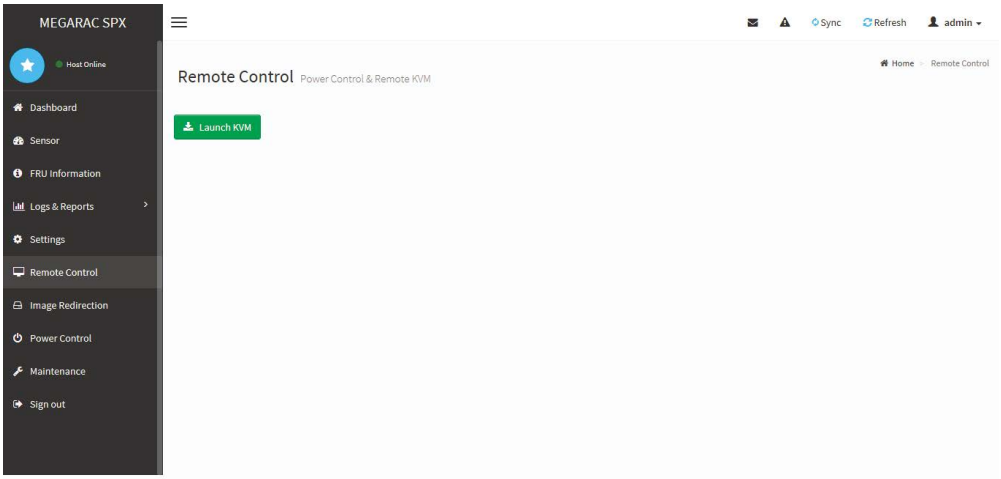


Mouse Mode setting:

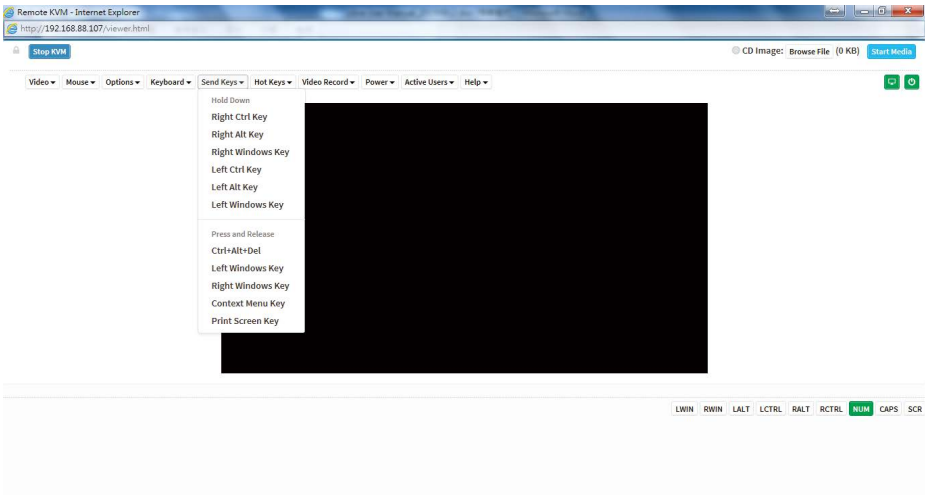


- For Windows OS environment, set mode to absolute.
- For Linux OS environment, set mode to relative.
- For SLES-11 OS environment, set mode to other mode.

6. Remote Control:



Environmental setting：



5.4 Updating BMC Firmware

1. Boot to the DOS (MS-DOS or Free DOS is workable)
2. Enter BMC firmware directory [XXXXXZYY]; XXXXX: project name ; YY: firmware version; Z: Identify character, C for official, B for Beta.
3. Execute **a.bat** batch file to update the BMC firmware
   Example:
   A:>cd SB301C01
   A:\ SB301C01>a.bat
   This is just an example. The latest BMC firmware version is available from the FAE or AIC website.
4. After update BMC firmware, please power off and then power on system.

NOTES:

1. DO NOT USE EMM386 IN DOS ENVIRONMENT WHEN UPDATING FIRMWARE OR YOU WILL GET A FAIL.
2. IN SOME CRITICAL CONDITION, AFTER UPDATING BMC FIRMWARE OR CONFIG FILE, YOU MIGHT NEED TO UNPLUG AC POWER CORD 5 SECONDS AND THEN PLUG AC POWER CORD TO RESET BMC, THEN UPDATED NEW FUNCTION CAN WORK PROPERLY.

Chapter 6. Technical Support



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