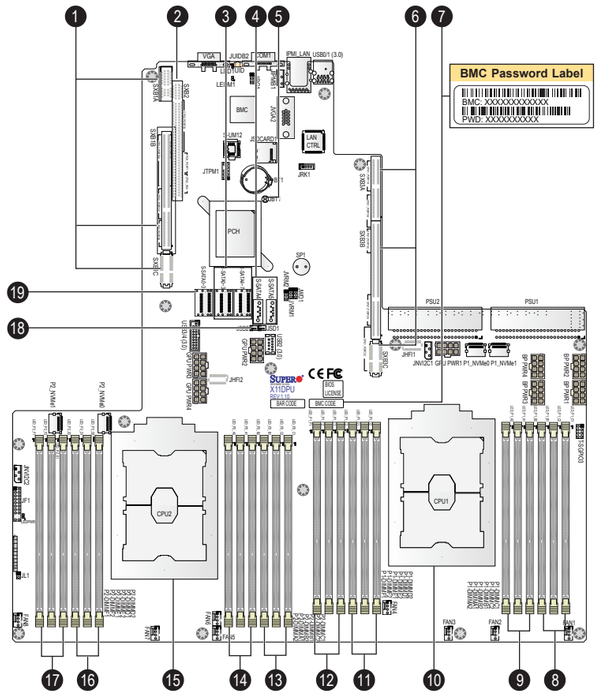
SUPERMICRO® SuperServer 2029U-E Series Quick Reference Guide

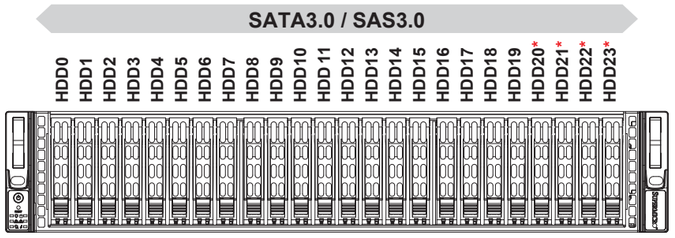
Board Layout



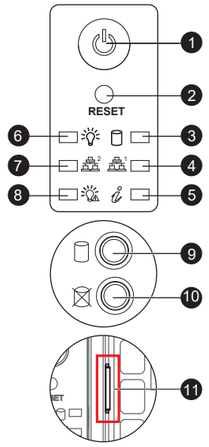
No.	Description
1	SXB1A/1B/1C: Proprietary PCI-e Slot used for WIO-Left Devices (supported by CPU2)
2	SXB2: Proprietary PCI-e Slot for WIO-Right Devices (supported by CPU2)
3	I-SATA0~3, I-SATA4~7: SATA 3.0 Ports (Intel PCH)
4	S-SATA 4, 5: SATA 3.0 Ports (Intel SCU)
5	JBT1: CMOS Clear
6	SXB3A/3B/3C: Proprietary PCI-e Slot for Ultra Riser Devices (supported by CPU1)
7	BMC Password Label
8	P1-DIMMC1(Blue) /P1-DIMMC2 /P1-DIMMB1 (Blue) slot
9	P1-DIMMB2 /P1-DIMMA1(Blue) /P1-DIMMA2 slot
10	CPU1 (Install CPU1 first)
11	P1-DIMMD2 /P1-DIMMD1(Blue) /P1-DIMME2 slot
12	P1-DIMME1(Blue) /P1-DIMMF2 /P1-DIMMF1 (Blue) slot
13	P2-DIMMC1(Blue) /P2-DIMMC2 /P2-DIMMB1 (Blue) slot
14	P2-DIMMB2/P2-DIMMA1(Blue)/P2-DIMMA2 slot
15	CPU2
16	P2-DIMMD2/P2-DIMMD1(Blue)/P2-DIMME2 slot
17	P2-DIMME1(Blue)/P2-DIMMF2/P2-DIMMF1(Blue) slot
18	JSD1/JSD2: SATA DOM (Device_on_Module) Power Connectors
19	S-SATA0~3: SATA 3.0 Ports (Intel SCU)

Front View

SATA3.0 / SAS3.0

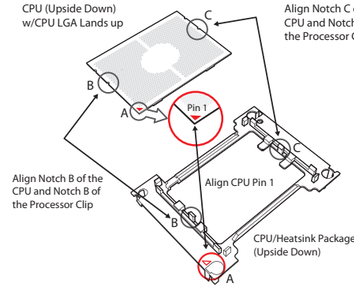


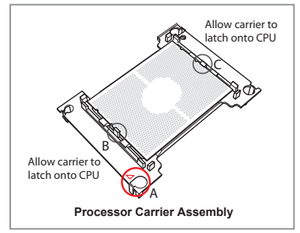
* **Optional NVMe Support (HDD20 and 21 from CPU1, HDD22 and 23 from CPU2)**



No.	Description
1	Power Button
2	Reset Button
3	Device Activity LED
4	LAN1 LED
5	Universal Information LED
6	Power LED
7	LAN2 LED
8	Power Failure LED
9	Device Activity LED
10	Device Status LED
11	Service/Asset Tag, Pull-out identifier (with BMC ADMIN default password underneath)

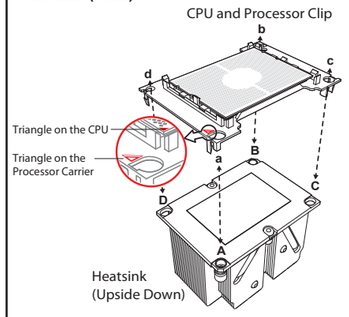
CPU Installation

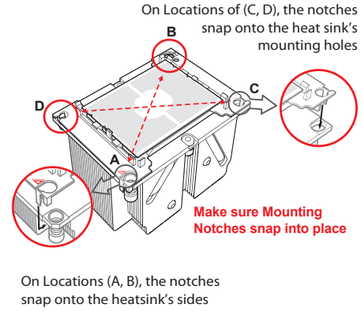




Processor Carrier Assembly (with CPU mounted on the Processor Clip)

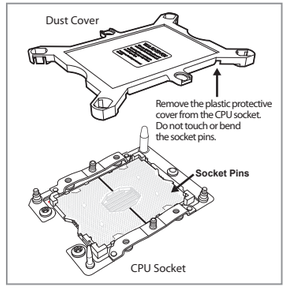
Attaching the Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)





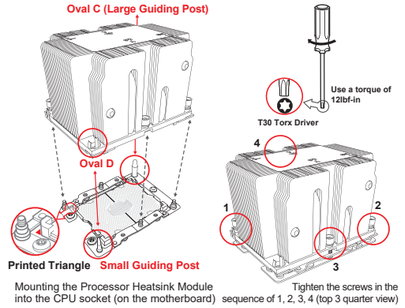
Removing the Dust Cover from the CPU Socket

Remove the dust cover from the CPU socket, exposing the socket and socket pins as shown on the illustration below.
Note: Do not touch the socket pins to avoid damaging them, causing the CPU to malfunction.



Installing the Processor Heatsink Module (PHM)

Note: Do not use excessive force when tightening the screws to avoid damaging the LGA lands and the processor.



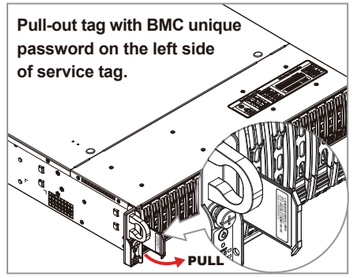
Memory Support

When 2 CPUs are used	Memory Population Sequence
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1 CPU2: P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1 CPU2: P2-DIMMA1/P2-DIMMD1
2 CPUs & 6 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1
2 CPUs & 8 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs &10 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs & 12 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1
2 CPUs & 14 DIMMs	CPU1: P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/P1-DIMME2/P1-DIMME1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1
2 CPUs & 16 DIMMs	CPU1: P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/P1-DIMME2/P1-DIMME1 CPU2: P2-DIMMB1/P2-DIMMB2/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/P2-DIMME2/P2-DIMME1
2 CPUs & 18 DIMMs	CPU1: P1-DIMMC1/P1-DIMMC2/P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/ P1-DIMME2/P1-DIMME1/P1-DIMMF2/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1
2 CPUs & 20 DIMMs	CPU1: P1-DIMMC1/P1-DIMMC2/P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/ P1-DIMME2/P1-DIMME1/P1-DIMMF2/P1-DIMMF1 CPU2: P2-DIMMB1/P2-DIMMB2/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/P2-DIMME2/P2-DIMME1
2 CPUs & 22 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMC2/P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/ P1-DIMME2/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMC2/P2-DIMMB1/P2-DIMMB2/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/ P2-DIMME2/P2-DIMME1/P2-DIMMF1
2 CPUs & 24 DIMMs	CPU1: P1-DIMMC1/P1-DIMMC2/P1-DIMMB1/P1-DIMMB2/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/ P1-DIMME2/P1-DIMME1/P1-DIMMF2/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMC2/P2-DIMMB1/P2-DIMMB2/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/ P2-DIMME2/P2-DIMME1/P2-DIMMF2/P2-DIMMF1

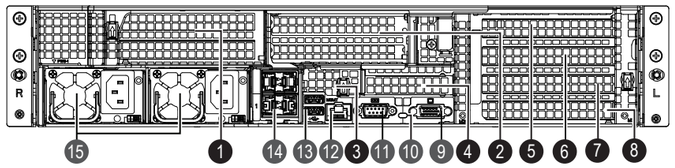
BMC Password Label

Each system comes with an unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker on the left side of the service tag.
If necessary, the password can be reset by the Supermicro IPMICFG tool.

For more information, please visit https://www.supermicro.com/en/solutions/management-software/bmc-resources



Rear View



Two 25G LAN ports

Two to four 1G/10G LAN ports

LAN Port Configuration for 2029U-E Series Models

System	LAN Ports	Ultra Riser Card	System	LAN Ports	Ultra Riser Card
SYS-2029U-E1CR25M	Two 25 GbE	AOC-2UR68-m2TS	SYS-2029U-E1CRT	Two 10GBase-T	AOC-2UR68-i2XT
SYS-2029U-E1CR4	Four GbE	AOC-2UR68-i4G	SYS-2029U-E1CRTP	Two 10G SFP+	AOC-2UR68-i2XS
SYS-2029U-E1CR4T	Four 10GBase-T	AOC-2UR66-i4XTF			

No.	Description
1	Slot 1, PCIE 3.0 x16 slot (FH, 10.5" L) (CPU1)
2	Slot 2, PCIE 3.0 x8* slot (FH, 10.5" L) (CPU1) or 2x 2.5" Hot-Swap Drive Bay
3	Slot 3, Internal PCI-E 3.0 x8 LP slot (CPU1)
4	Slot 4, PCI-E 3.0 x8 LP slot (CPU2)
5~8	Slot 5~8, PCI-E 3.0 x8 slot (FH, 10.5" L) (CPU2)
9	VGA Port
10	UID Button (Unit Identifier Button)
11	COM Port
12	Dedicated LAN for IPMI
13	USB 3.0 Ports
14	2-4 LAN Ports (Reference LAN port configuration table)
15	Redundant Power Supply Module (See User Manual for LED guidance)

*Slot 2, PCI-E 3.0 x 16 available on E1CR4T model, and disable slot 3

Caution

⚠ SAFETY INFORMATION
IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

⚠ WARNING:
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets. If any CPU socket empty, install protective plastic CPU cap.

⚠ CAUTION:
Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to: http://www.supermicro.com/support