



P/N: 15G065363000AK V1.0

Quick Installation Guide

SIENAD10HM3

ASRock
Rack
www.asrockrack.com



SIENAD10HM3

The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

Take note of the following precautions before installing server board components or change any server board settings.

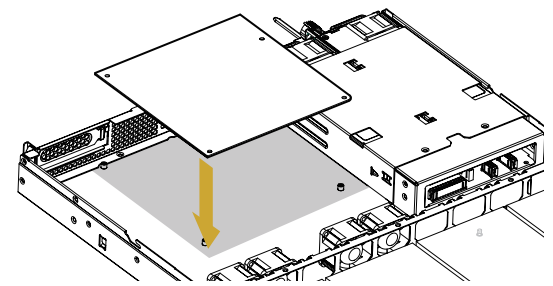
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place the server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before handling the components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever uninstall any component, place it on a grounded anti-static pad or in the bag that comes with the component.
5. When placing screws into the screw holes to secure the server board to the chassis, please do not over-tighten the screws! Doing so may damage the server board.

1 Install the Server Board

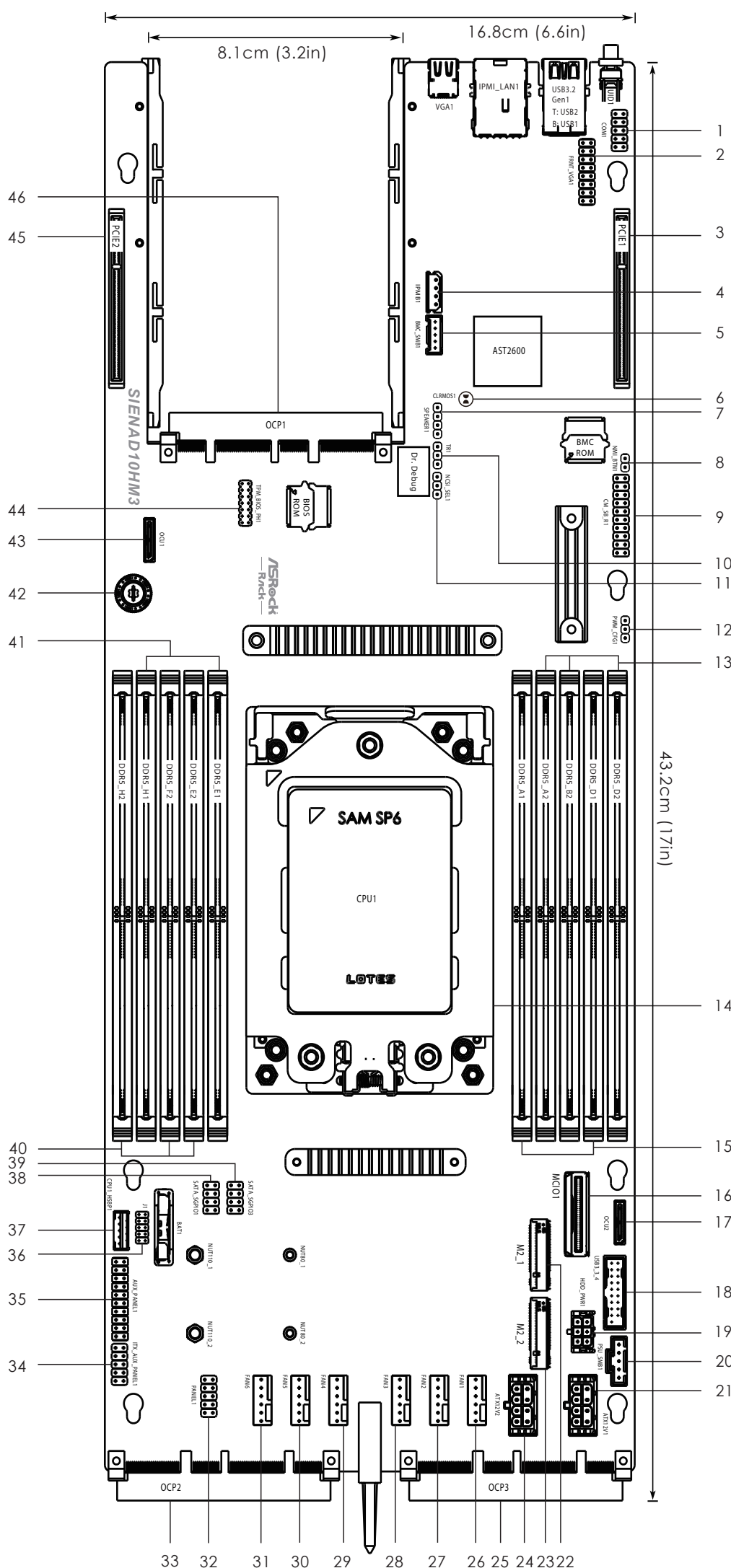
- 1 Insert the server board into the chassis.

- 2 Affix the screws clockwise into the mounting holes in all of the corners of the server board.

Do not over-tighten the screws



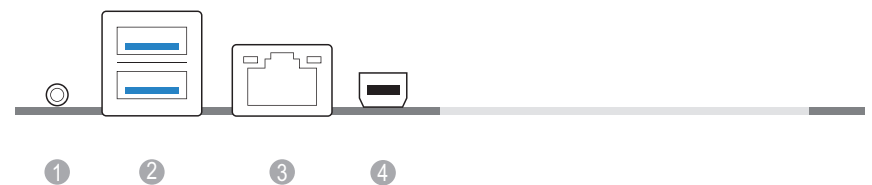
2 Motherboard Layout



No.	Description
1	COM Port Header (COM1)
2	Front VGA Header (FRNT_VGA1)
3	PCI Express 5.0 x16 Slot (PCIE1)
4	Intelligent Platform Management Bus header (IPMB1)
5	BMC SMBus Header (BMC_SMB1)
6	Clear CMOS Pad (CLRMO1)
7	Speaker Header (SPEAKER1)
8	Non Maskable Interrupt Button (NMI_BTN1)
9	CM Board Standby Power Header (CM_SB_R1)
10	Thermal Sensor Header (TR1)
11	NCSI Mode Jumper (NCSI_SEL1)
12	PWM Configuration Header (PWM_CFG1)
13	3 x 288-pin DDR5 DIMM Slots (DDR5_A2, DDR5_B2, DDR5_D2)
14	AMD Socket SP6 (LGA 4844) (CPU1)
15	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_D1)
16	Mini Cool Edge IO Connector (MCIO1)
17	OCuLink Connector (PCIe3.0 x4) (OCU2)
18	USB 3.2 Gen1 Header (USB3_3_4)
19	HDD Power Connector (HDD_PWR1)
20	PSU SMBus (PSU_SMB1)
21	ATX 12V Power Connector (ATX12V1)
22	M.2 Socket (M2_1) (Type 2280 / 22110)
23	M.2 Socket (M2_2) (Type 2280 / 22110)

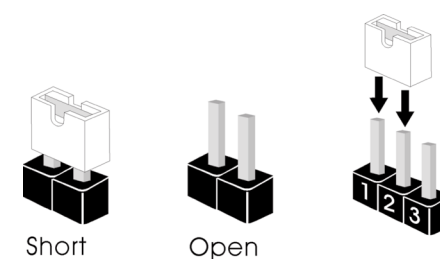
No.	Description
24	ATX 12V Power Connector (ATX12V2)
25	OCP 3.0 Gen5 x16 Mezzanine Card Slot (OCP3)
26	System Fan Connector (FAN1)
27	System Fan Connector (FAN2)
28	System Fan Connector (FAN3)
29	System Fan Connector (FAN4)
30	System Fan Connector (FAN5)
31	System Fan Connector (FAN6)
32	System Panel Header (PANEL1)
33	OCP 3.0 Gen5 x16 Mezzanine Card Slot (OCP2)
34	ITX Auxiliary Panel Header (ITX_AUX_PANEL1)
35	Auxiliary Panel Header (AUX_PANEL1)
36	System Front Panel Board Header (J1)
37	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
38	SATA SGPIO Connector (SATA_SGPIO1)
39	SATA SGPIO Connector (SATA_SGPIO3)
40	3 x 288-pin DDR5 DIMM Slots (DDR5_E2, DDR5_F2, DDR5_H2)
41	2 x 288-pin DDR5 DIMM Slots (DDR5_E1, DDR5_H1)
42	Thumbscrew
43	OCuLink Connector (2 SATA 6Gb/s) (OCU1)
44	SPI TPM Header (TPM_BIOS_PH1)
45	PCI Express 5.0 x16 Slot (PCIE2)
46	OCP 3.0 Gen5 x16 Mezzanine Card Slot (OCP1)

3 I/O Panel



No.	Description	No.	Description
1	UID Switch (UID1)	3	LAN RJ-45 Port (IPMI_LAN1)*
2	USB 3.2 Gen1 Ports (USB3_1_2)	4	Mini DisplayPort (VGA1)

4 Jumper Settings

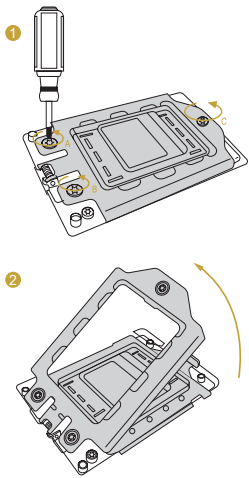


When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

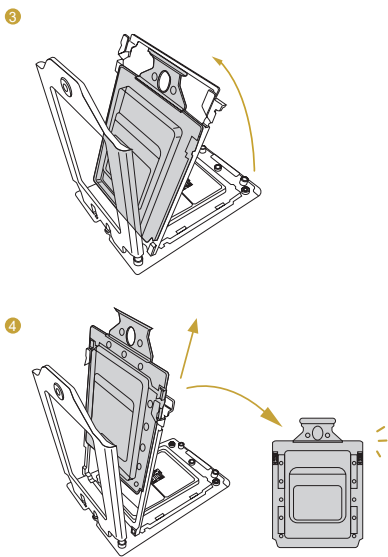
The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.

5 Install the Processor and Heatsink

Locate the screw on the CPU socket and unscrew it. Open the first retention cover.

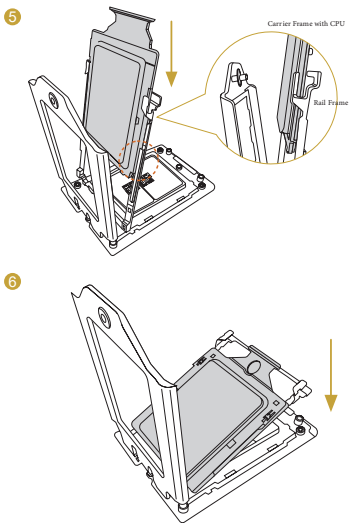


Open the second bracket. Take out the internal plastic cover.

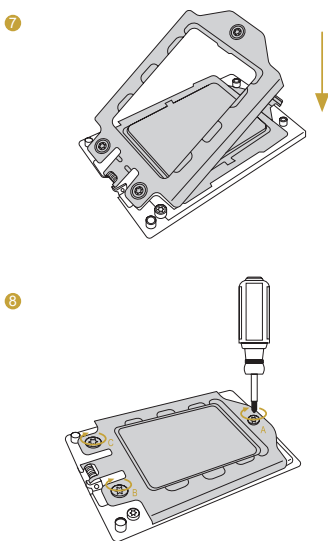


We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

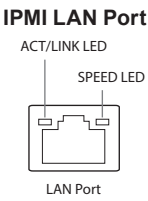
Install CPU along with the carrier frame, do not separate them. Please make sure the carrier frame with CPU is closely attached to the rail frame while inserting it.



Close the bracket that holds the CPU. Close the retention cover and fasten the screw.



6 LAN Port LED Indications



Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection or no link
Blinking Yellow	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection

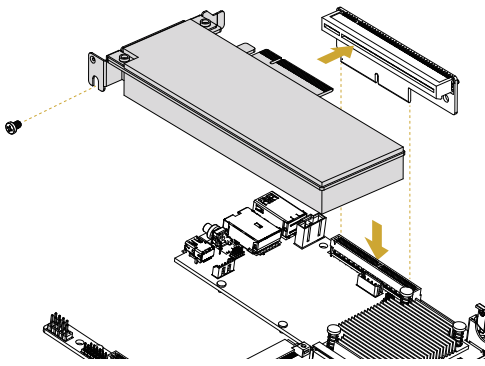
8 Install the PCIE Card

1 Remove the bracket facing the slot that you intend to use on the chassis. Keep the screw for later use.

2 Install the PCIE card to the riser card.
If having any queries related to the riser card, please contact our local sales representative or technical support team.

3 Align the riser-card assembly connector with the slot on the system board. Press firmly until the riser-card assembly is completely seated on the slot.

4 Fasten the card to the chassis with the screw.

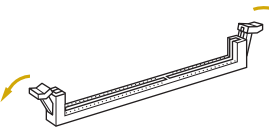


**Images shown are for illustrative purposes only and may differ depending on model.*

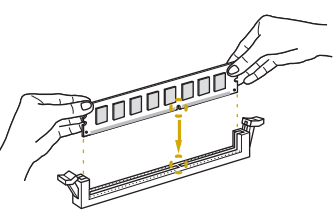
Slot	Generation	Mechanical	Electrical	Source
PCIE1	5.0	x16	x16	CPU1
PCIE2	5.0	x16	x16	CPU1

9 Install the Memory

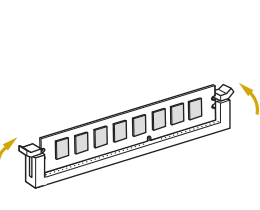
1 Unlock a DIMM slot by pressing the module clips outward.



2 Insert the memory module.

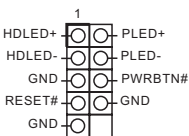


3 Lock the clips.

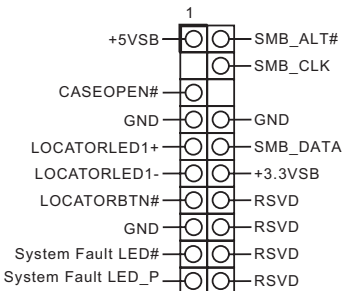


10 Headers

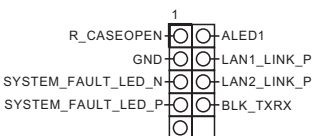
System Panel



Auxiliary Panel

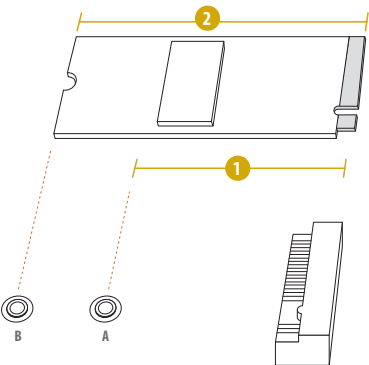


ITX Auxiliary Panel



7 Install the M.2 SSD Module

1 Find the corresponding nut location to be used.



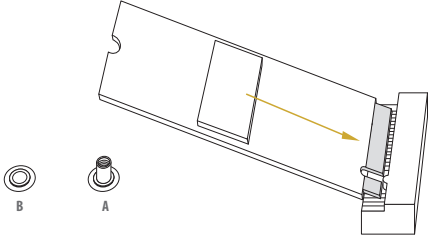
2 Move the standoff based on the module type and length.



3 Peel off the yellow protective film on the nut. Hand tighten the standoff into the desired location.



4 Gently insert the M.2 module into the slot.



5 Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw.

