P/N: 15G065338000AK V1.0

Quick Installation Guide

SIENAD8UD2-2Q / SIENAD8UD-2L2Q

www.asrockrack.com

SIENAD8UD2-2Q

SIENAD8UD-2L2Q

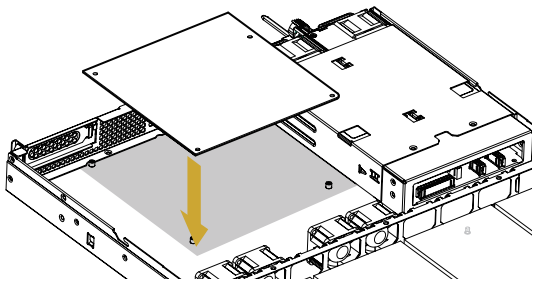
The server board User's Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

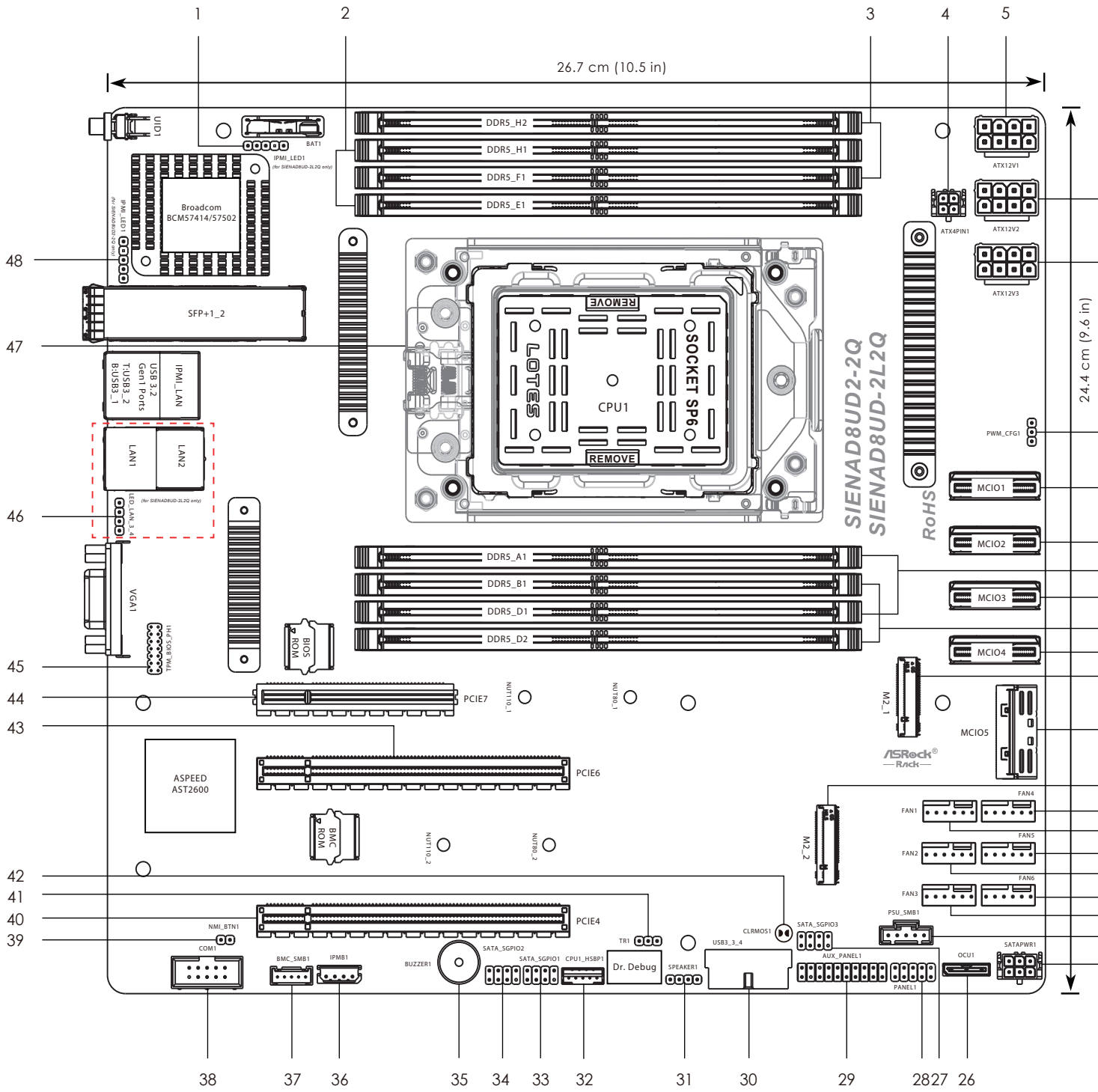
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place the server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before 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

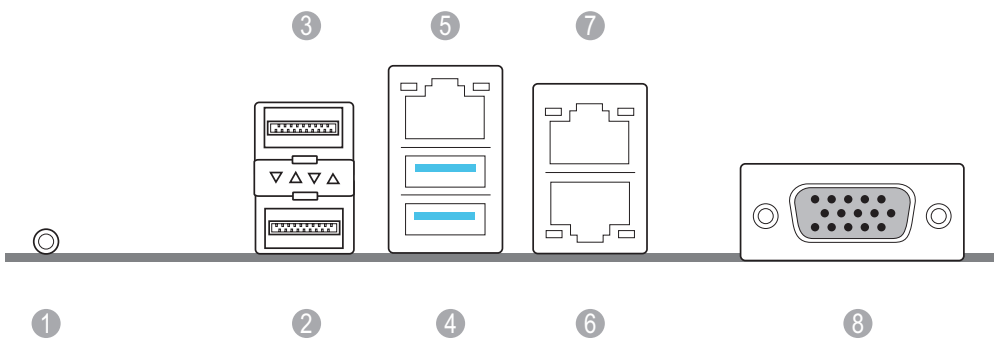


2 Motherboard Layout



No.	Description
1	IPMI LAN LED Header (IPMI_LED1) (*for SIENAD8UD-2L2Q)*
2	2 x 288-pin DDR5 DIMM Slots (DDR5_E1, DDR5_H1)
3	2 x 288-pin DDR5 DIMM Slots (DDR5_F1, DDR5_H2)
4	Micro-Fit Power Connector (ATX4PIN1)
5	ATX 12V Power Connector (ATX12V1)
6	ATX 12V Power Connector (ATX12V2)
7	ATX 12V Power Connector (ATX12V3)
8	PWM Configuration Header (PWM_CFG1)
9	Mini Cool Edge IO Connector (MCIO1)
10	Mini Cool Edge IO Connector (MCIO2)
11	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_D1)
12	Mini Cool Edge IO Connector (MCIO3)
13	2 x 288-pin DDR5 DIMM Slots (DDR5_B1, DDR5_D2)
14	Mini Cool Edge IO Connector (MCIO4)
15	M.2 Socket (M2_1) (Type 2280 / 22110)
16	Mini Cool Edge IO Connector (MCIO5)
17	M.2 Socket (M2_2) (Type 2280 / 22110)
18	System Fan Connector (FAN4)
19	System Fan Connector (FAN1)
20	System Fan Connector (FAN5)
21	System Fan Connector (FAN2)
22	System Fan Connector (FAN6)
23	System Fan Connector (FAN3)
24	PSU SMBus (PSU_SMB1)
25	SATA Power Connector (SATAPWR1)
26	OCuLink Connector (PCIe3.0 x4) (OCU1)
27	SATA SGPIO Connector (SATA_SGPIO3)
28	System Panel Header (PANEL1)
29	Auxiliary Panel Header (AUX_PANEL1)
30	USB 3.2 Gen1 Header (USB3_3_4)
31	Speaker Header (SPEAKER1)
32	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
33	SATA SGPIO Connector (SATA_SGPIO1)
34	SATA SGPIO Connector (SATA_SGPIO2)
35	BUZZER1
36	Intelligent Platform Management Bus Header (IPMB1)
37	BMC SMBus Header (BMC_SMB1)
38	COM Port Header (COM1)
39	Non Maskable Interrupt Button (NMI_BTN1)
40	PCI Express 5.0/CXL1.1 x16 Slot (PCIE4)
41	Thermal Sensor Header (TR1)
42	Clear CMOS Pad (CLRMOS1)
43	PCI Express 5.0/CXL1.1 x16 Slot (PCIE6)
44	PCI Express 5.0/CXL1.1 x8 Slot (PCIE7)
45	SPI TPM Header (TPM_BIOS_PH1)
46	Front LAN LED Connector (LED_LAN_3_4) (*for SIENAD8UD-2L2Q)*
47	AMD Socket SP6 (LGA4844) (CPU1)
48	IPMI LAN LED Header (IPMI_LED1) (*for SIENAD8UD2-2Q)*

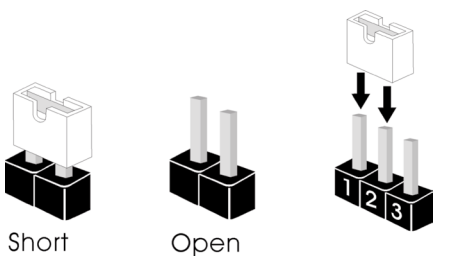
3 I/O Panel



No.	Description	No.	Description
1	UID Switch (UID1)	5	LAN RJ-45 Port (IPMI_LAN)
2	25G SFP28 (Fiber) (SFP1)	6	1G LAN RJ-45 Port (LAN1, shared NIC)
3	25G SFP28 (Fiber) (SFP2)	7	1G LAN RJ-45 Port (LAN2)
4	USB 3.2 Gen1 Ports (USB3_1_2)	8	VGA Port (VGA1)

Note: LAN1 and LAN2 are for SIENAD8UD-2L2Q only.

4 Jumper Settings

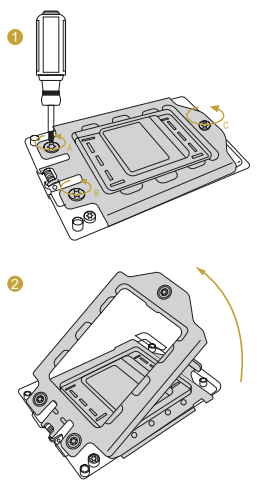


When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

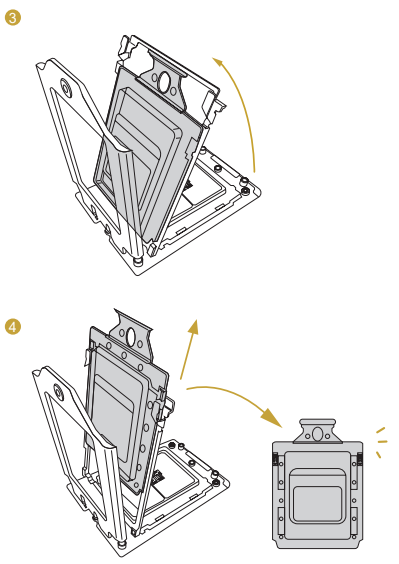
The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.

5 Install the Processor and Heatsink

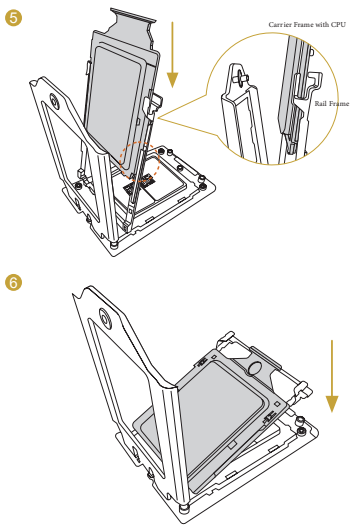
Locate the screw on the CPU socket and unscrew it. Open the first retention cover.



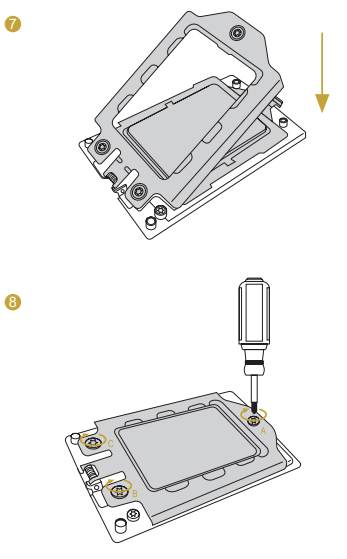
Open the second bracket. Take out the internal plastic cover.



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.



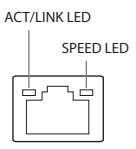
Close the bracket that holds the CPU. Close the retention cover and fasten the screw .



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

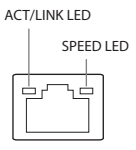
6 LAN Port LED Indications

IPMI LAN Port



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

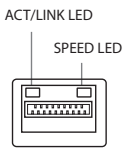
1G LAN Port



(for SIENAD8UD-2L2Q only)

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

SFP LAN Port

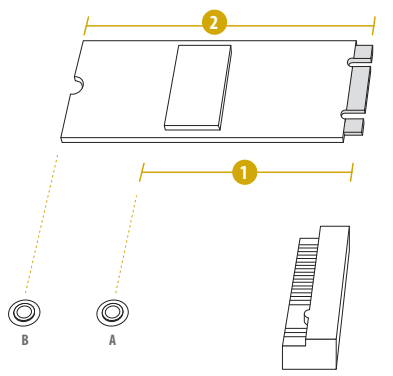


Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	1G/100Mbps connection or no link
Blinking Orange	Data Activity	Orange	10Gbps connection
On	Link	Green	25Gbps connection

7 Install the M.2 SSD Module

1 Find the corresponding nut location to be used.

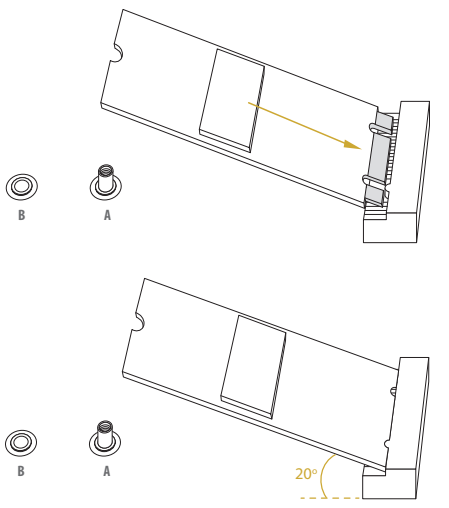
No.	1	2
Nut Location	A (NUT80_1/2)	B (NUT110_1/2)
PCB Length	8cm	11cm
Module Type	Type2280	Type 22110



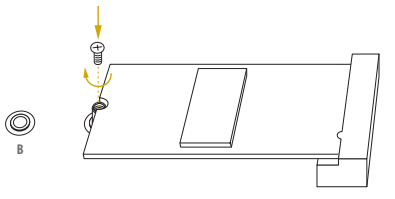
2 Move the standoff based on the module type and length.

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.



8 Install the PCIE Card

1 Remove the bracket facing the slot that intending to use. Keep the screw for later use.

2 Align the card connector with the slot and press firmly until the card is completely seated on the slot.

3 Fasten the card to the chassis with the screw.

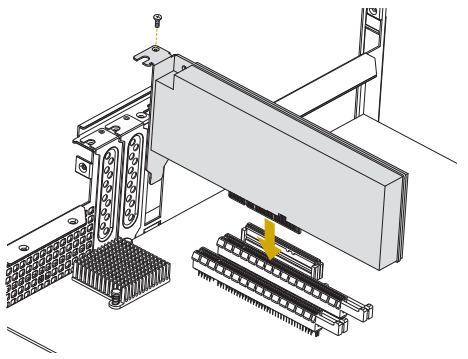
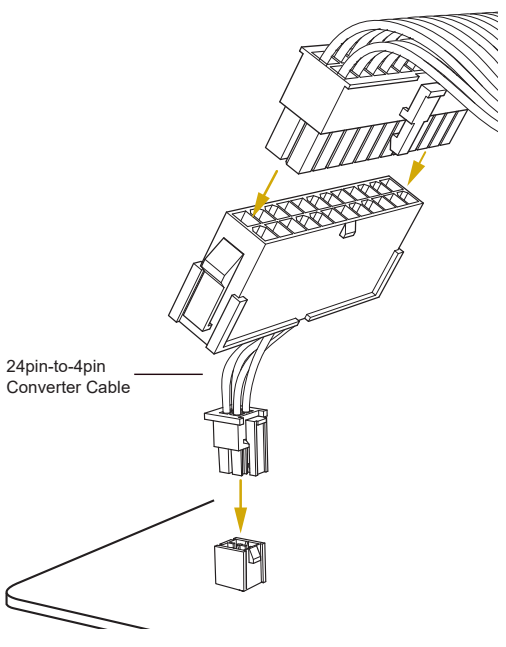
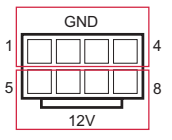


**Image shown is for illustrative purpose only and may differ depending on model.*

9 Install the Power Cables

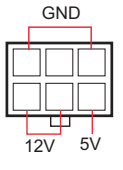


ATX12V1~3



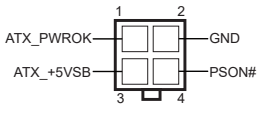
SATAPWR1

DC-IN Mode



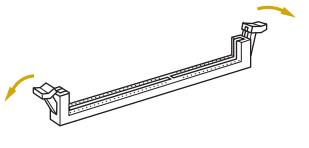
ATX4PIN1

Micro-Fit Power Connector

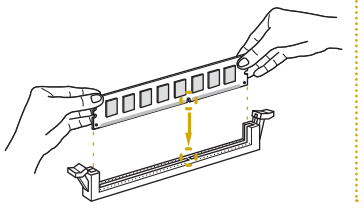
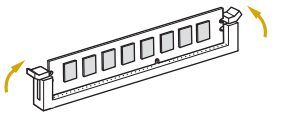


10 Install the Memory

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



2 Insert the memory module.



3 Lock the clips.