P/N: 15G065360000AK V1.0

Quick Installation Guide

EPYC4000D4U

www.asrockrack.com

EPYC4000D4U

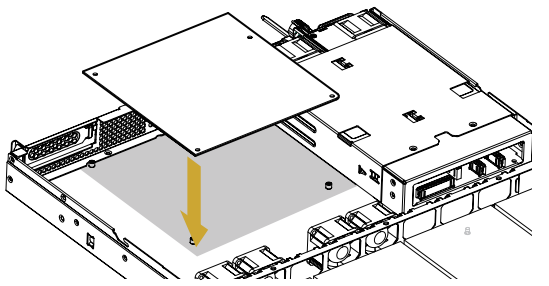
The server board User's Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

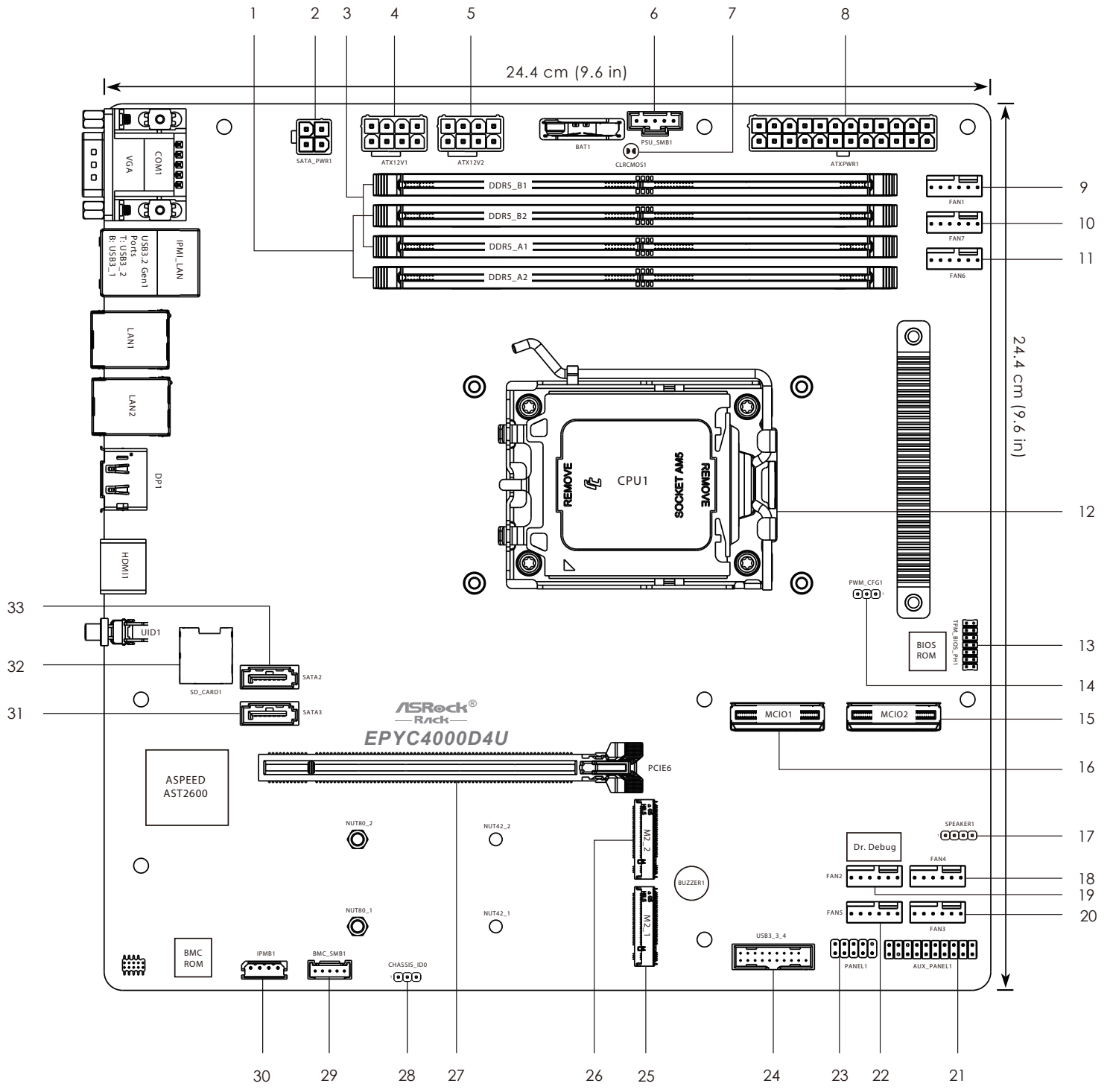
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place the server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before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

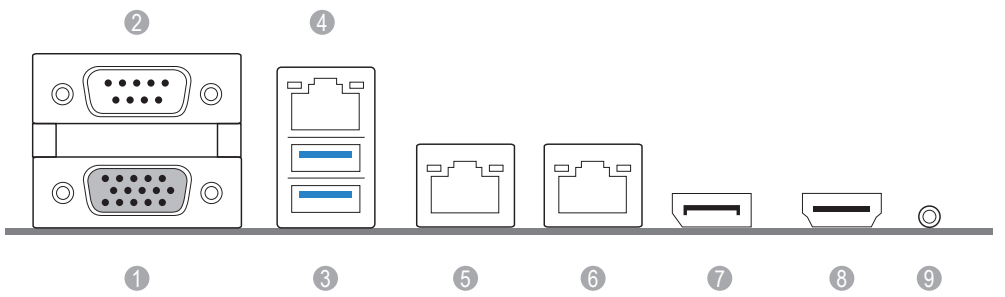


2 Motherboard Layout



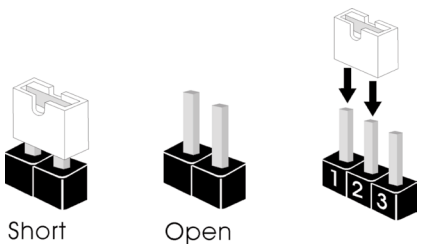
No.	Description
1	2 x 288-pin DDR5 DIMM Slots (DDR5_A2, DDR5_B2)
2	SATA Power Connector (SATA_PWR1)
3	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_B1)
4	ATX 12V Power Connector (ATX12V1)
5	ATX 12V Power Connector (ATX12V2)
6	PSU SMBus Header (PSU_SMB1)
7	Clear CMOS Pad (CLRCMOS1)
8	ATX Power Connector (ATXPWR1)
9	System Fan Connector (FAN1)
10	System Fan Connector (FAN7)
11	System Fan Connector (FAN6)
12	AMD Socket AM5 (LGA1718)
13	SPI TPM Header (TPM_BIOS_PH1)
14	PWM Configuration Header (PWM_CFG1)
15	Mini Cool Edge IO Connector (MCIO2)
16	Mini Cool Edge IO Connector (MCIO1)
17	Speaker Header (SPEAKER1)
18	System Fan Connector (FAN4)
19	System Fan Connector (FAN2)
20	System Fan Connector (FAN3)
21	Auxiliary Panel Header (AUX_PANEL1)
22	System Fan Connector (FAN5)
23	System Panel Header (PANEL1)
24	USB 3.2 Gen1 Header (USB3_3_4)
25	M.2 Socket (M2_1) (Type 2242/2280)
26	M.2 Socket (M2_2) (Type 2242/2280)
27	PCI Express 5.0 x16 Card Slot (PCIE6)
28	Chassis ID Jumper (CHASSIS_ID0)
29	BMC SMBus Header (BMC_SMB1)
30	Intelligent Platform Management Bus Header (IPMB1)
31	SATA3 Connector (SATA3)
32	MicroSD Card Slot (SD_CARD1)
33	SATA3 Connector (SATA2)

3 I/O Panel



No.	Description	No.	Description
1	VGA Port (VGA)	6	1G LAN RJ-45 Port (LAN2)
2	Serial Port (COM1)	7	DisplayPort (DP1)
3	USB 3.2 Gen1 Ports (USB3_1_2)	8	HDMI Port (HDMI1)
4	LAN RJ-45 Port (IPMI_LAN)	9	UID Switch (UID1)
5	1G LAN RJ-45 Port (LAN1, shared NIC)		

4 Jumper Cap On/Off



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.

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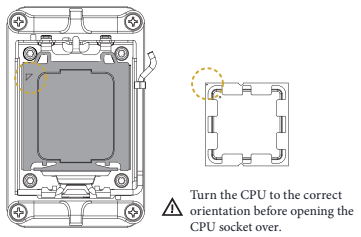
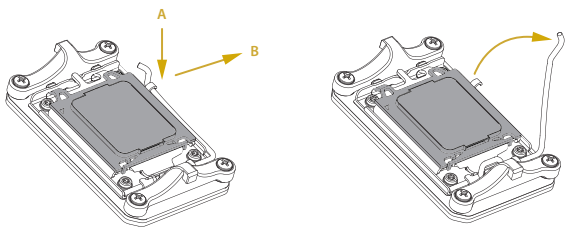
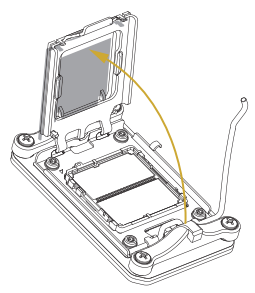
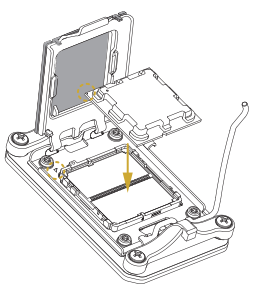
5 Install the Processor

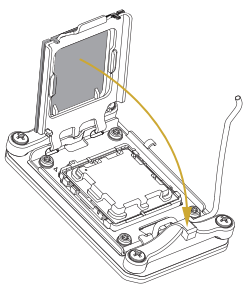


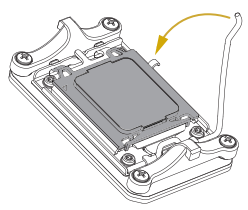
⚠ Turn the CPU to the correct orientation before opening the CPU socket over.

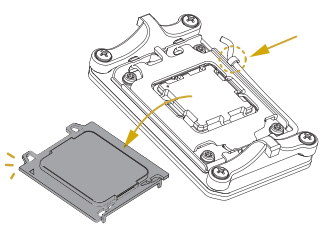










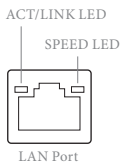


⚠ Make sure the black cover plate is always in place until it pops off when closing the socket lever.

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

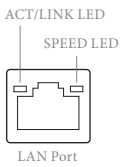
8 LAN Port LED Indications

IPMI LAN Port



Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M bps connection or no link
Blinking Yellow	Data Activity	Yellow	100M bps connection
On	Link	Green	1G bps connection

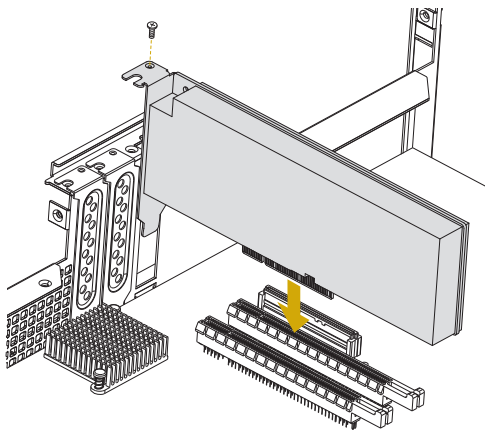
1G LAN Port



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

9 Install the PCIE Card

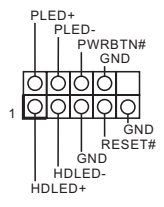
1. Remove the bracket facing the slot that intending to use. Keep the screw for later use.
2. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
3. Fasten the card to the chassis with the screw.



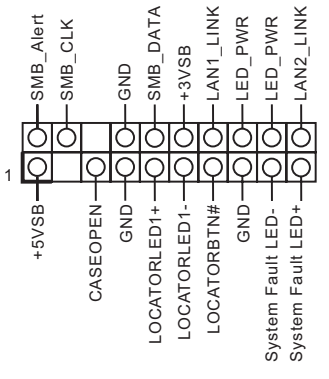
**Images shown are for illustrative purposes only and may differ depending on model.*

10 Headers

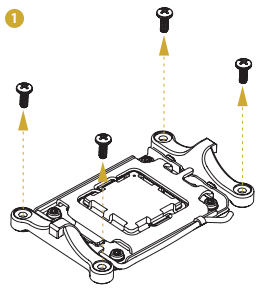
System Panel

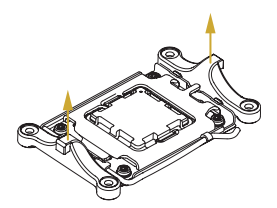


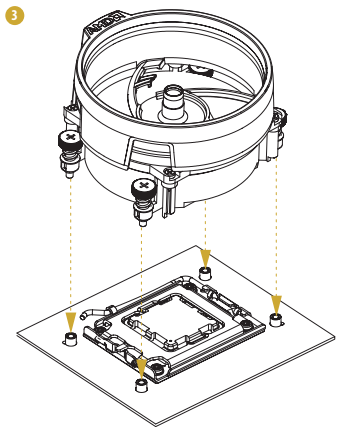
Auxiliary Panel

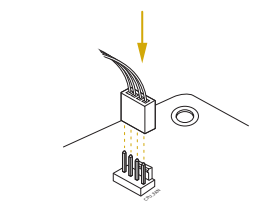


6 Install the Heatsink





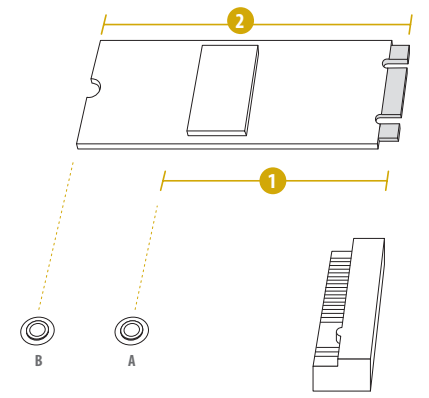




7 Install the M.2 SSD Module

1. Find the corresponding nut location to be used.

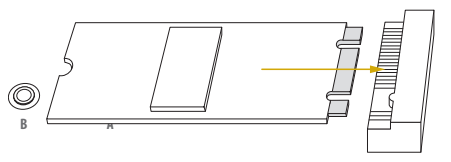
No.	1	2
Nut Location	A (NUT42_1)	B (NUT80_1)
PCB Length	4.2cm	8cm
Module Type	Type2242	Type 2280



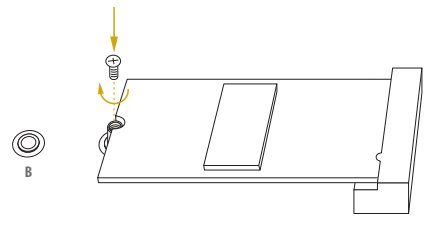
2. Move the standoff based on the module type and length.

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.

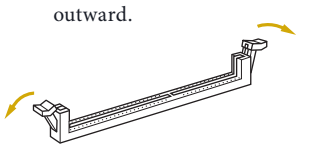


5. Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw.

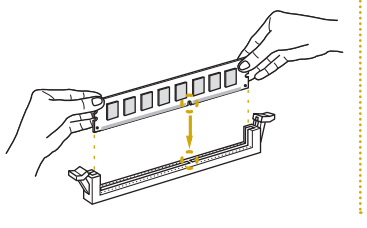
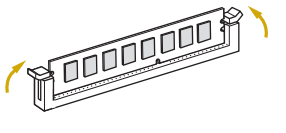


11 Install the Memory

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



2. Insert the memory module.



3. Lock the clips.