



P/N: 15G065200001AK V1.0

Quick Installation Guide

ROMED8U-2T



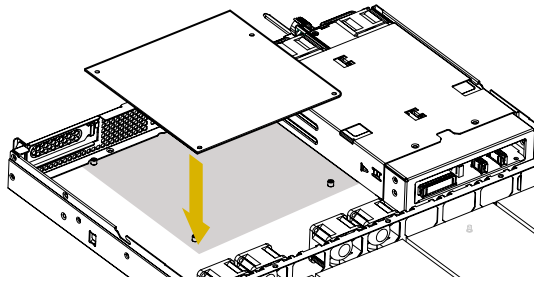
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

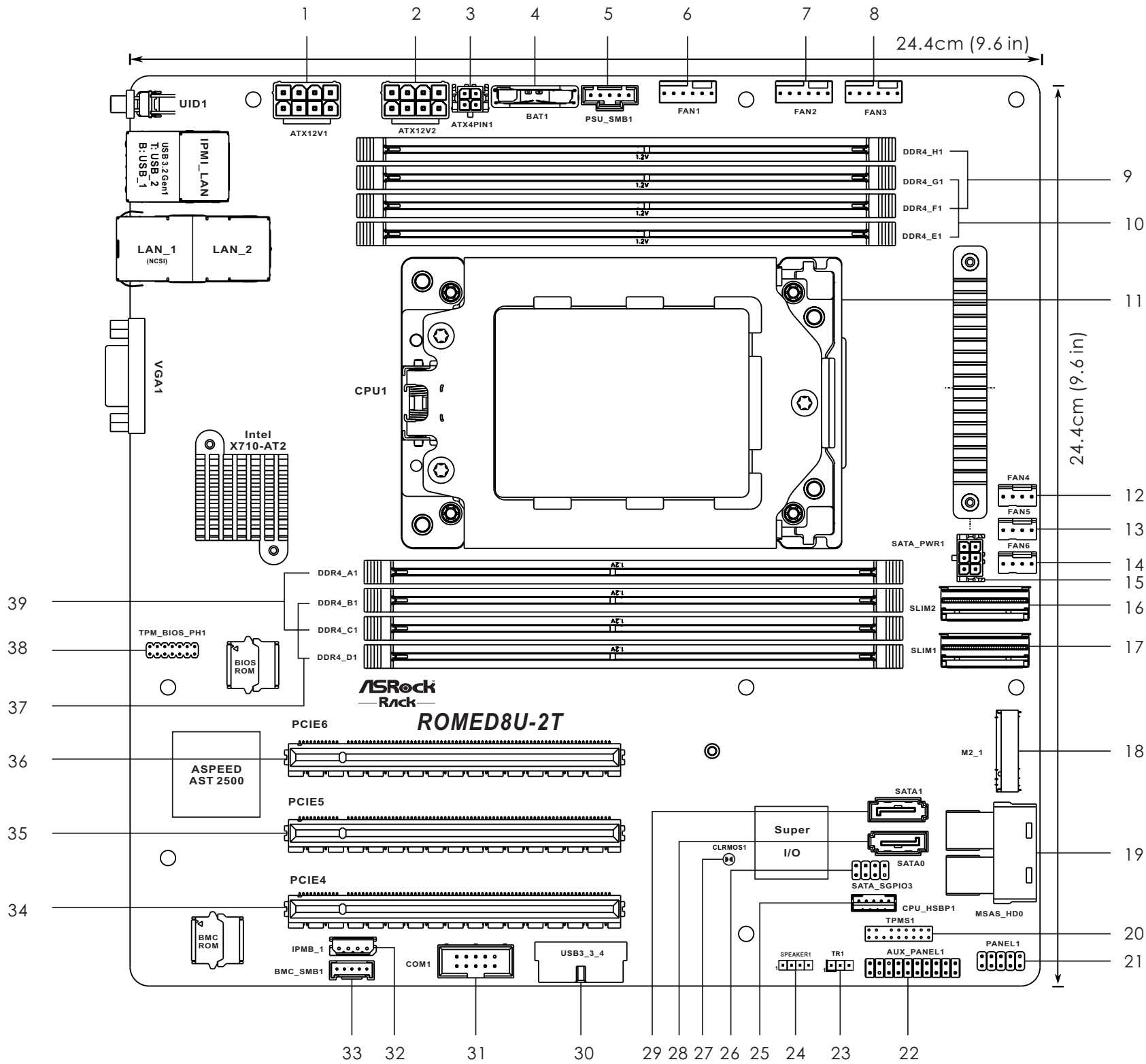
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle the components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you 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	ATX 12V Power Connector (ATX12V1)
2	ATX 12V Power Connector (ATX12V2)
3	ATX 4-PIN Power Connector (ATX4PIN1 (ATX 24pin-to-4pin))
4	Battery (BAT1)
5	PSU SMBus Header (PSU_SMB1)
6	System Fan Connector (FAN1)
7	System Fan Connector (FAN2)
8	System Fan Connector (FAN3)
9	2 x 288-pin DDR4 DIMM Slots (DDR4_F1, DDR4_H1)
10	2 x 288-pin DDR4 DIMM Slots (DDR4_E1, DDR4_G1)
11	AMD Socket SP3 (LGA4094)
12	System Fan Connector (FAN4)
13	System Fan Connector (FAN5)

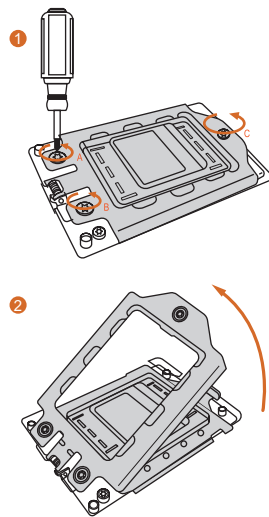
No.	Description
14	System Fan Connector (FAN6)
15	SATA Power Connector (SATA_PWR1)
16	Slimline SAS Connector (SLIM2)
17	Slimline SAS Connector (SLIM1)
18	M.2 Socket (M2_1) (Type 2280)
19	MiniSAS HD Connector (MSAS_HD0)
20	TPM Header (TPMS1)
21	System Panel Header (PANEL1)
22	Auxiliary Panel Header (AUX_PANEL1)
23	Thermal Sensor Header (TR1)
24	Speaker Header (SPEAKER1)
25	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
26	SATA SGPIO Connector (SATA_SGPIO3)

No.	Description
27	Clear CMOS Pad (CLRMO1)
28	SATA3 Connector (SATA0)
29	SATA3 Connector (SATA1)
30	USB 3.2 Gen1 Header (USB3_3_4)
31	COM Header (COM1)
32	Intelligent Platform Management Bus Header (IPMB_1)
33	BMC SMBus Header (BMC_SMB1)
34	PCI Express 4.0 x16 Card Slot (PCIE4)
35	PCI Express 4.0 x16 Card Slot (PCIE5)
36	PCI Express 4.0 x16 Card Slot (PCIE6)
37	2 x 288-pin DDR4 DIMM Slots (DDR4_B1, DDR4_D1)
38	TPM-SPI Header (TPM_BIOS_PH1)
39	2 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_C1)

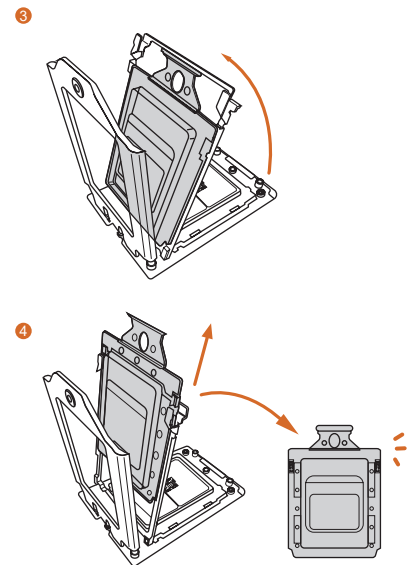


3 Install the Processor and Heatsink

Locate the three torx screws on the CPU socket and unscrew them according to the order A→B→C. Open the first retention cover.

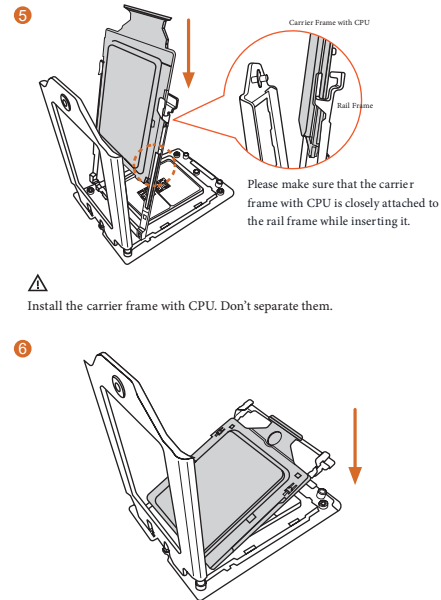


Open the second bracket. Take out the internal plastic cover.

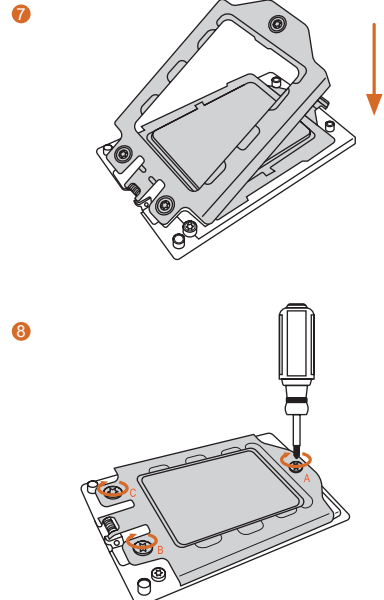


We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

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. Fasten the torx screw according to the order A→B→C.

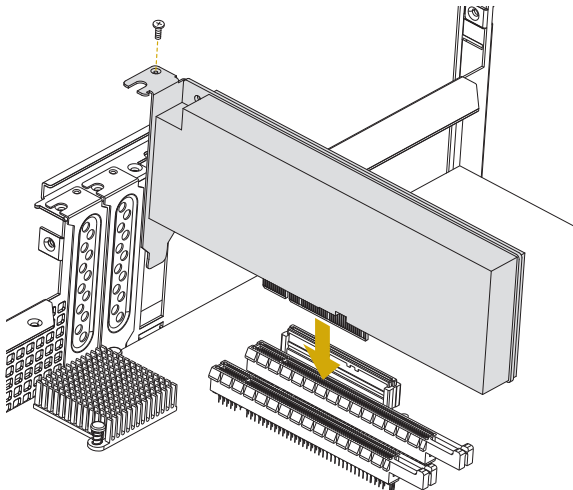


4 Install the PCIE Card

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

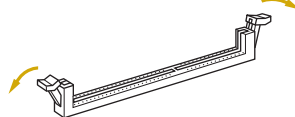
2 Align the card connector with the slot and press firmly until the card is completely seated on the slot.

3 Fasten the card to the chassis with the screw.

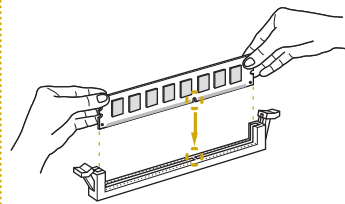


5 Install the Memory

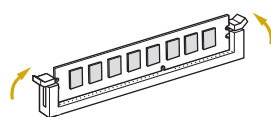
1 Unlock a DIMM slot by pressing the module clips outward.



2 Insert the memory module.

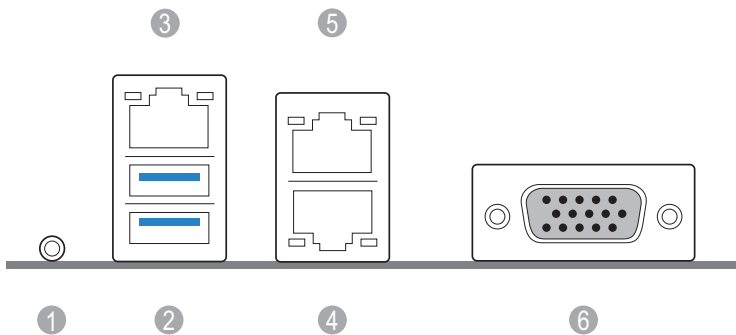


3 Lock the clips.



	CPU1							
	A1	B1	C1	D1	E1	F1	G1	H1
1 DIMM			#					
2 DIMMS			#	#				
4 DIMMS			#	#			#	#
8 DIMMS	#	#	#	#	#	#	#	#

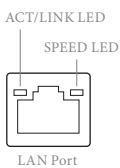
6 I/O Panel



No.	Description	No.	Description
1	UID Switch (UID1)	4	10G LAN RJ-45 Port (LAN1)
2	USB 3.2 Gen1 Ports (USB3_1_2)	5	10G LAN RJ-45 Port (LAN2)
3	LAN RJ-45 Port (IPMI_LAN1)	6	VGA Port (VGA1)

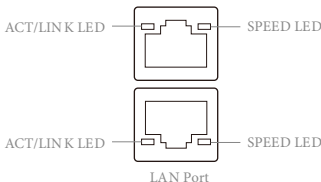
8 LAN Port LED Indications

IPMI LAN Port



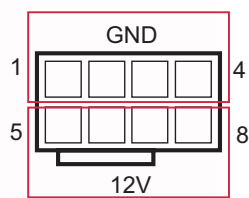
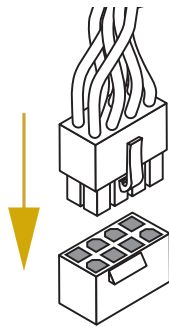
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M bps connection or no link
Blinking	Data Activity	Yellow	100M bps connection
On	Link	Green	1G bps connection

LAN Port



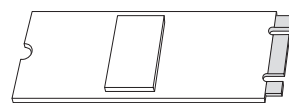
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	100Mbps connection or no link
Blinking	Data Activity	Yellow	1Gbps connection
On	Link	Green	10Gbps connection

7 Install the Power Cable

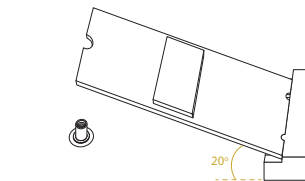


9 M.2_SSD (NGFF) Module Installation

1 Prepare a M.2_SSD (NGFF) module and the screw.



2 Gently insert the M.2 (NGFF) SSD module into the M.2 slot. Please be aware that the M.2 (NGFF) SSD module only fits in one orientation.



3 Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw as this might damage the module.

