



P/N: 15G06518000AK V1.0

Quick Installation Guide

ROMED4ID-2T



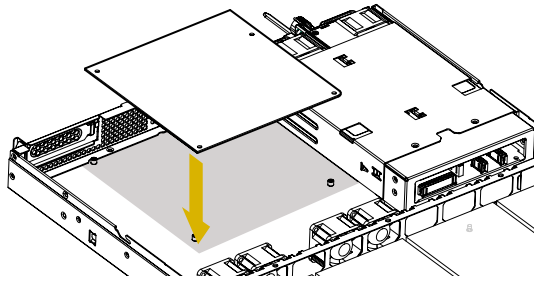
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

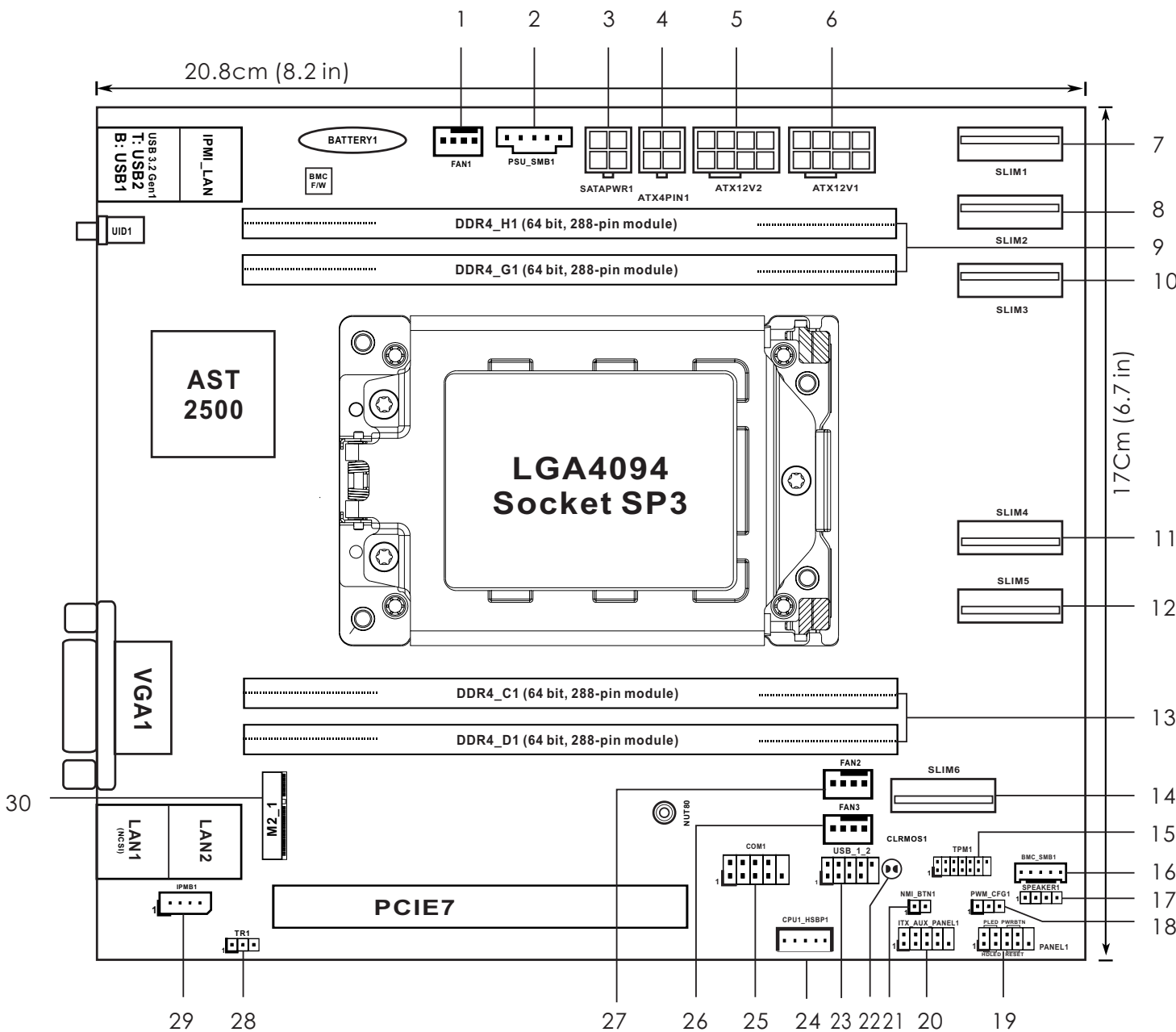
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before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



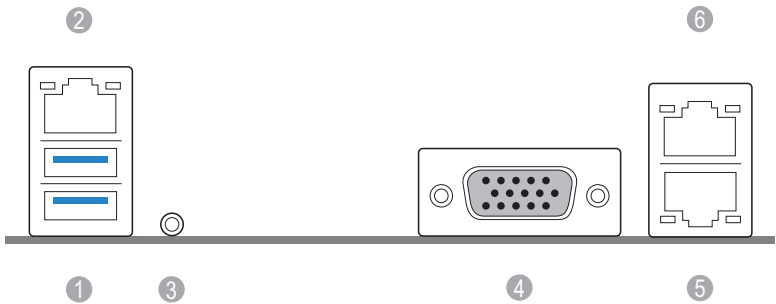
2 Motherboard Layout



No.	Description
1	System Fan Connector (FAN1)
2	PSU SMBus Header (PSU_SMB1)
3	SATA Power Connector (DC-IN Mode) (SATA_PWR1)*
4	ATX 4-PIN Power Connector (ATX4PIN1)*
5	ATX 12V Power Connector (ATX12V2)
6	ATX 12V Power Connector (ATX12V1)
7	Slimline SAS Connector (SLIM1) (Supports SATA)
8	Slimline SAS Connector (SLIM2) (Supports SATA)
9	2 x 288-pin DDR4 DIMM Slots (DDR4_G, DDR4_H1)
10	Slimline SAS Connector (SLIM3)
11	Slimline SAS Connector (SLIM4)
12	Slimline SAS Connector (SLIM5)
13	2 x 288-pin DDR4 DIMM Slots (DDR4_C1, DDR4_D1)
14	Slimline SAS Connector (SLIM6)
15	TPM Header (TPM1)
16	BMC SMBus Header (BMC_SMB1)
17	Speaker Header (SPEAKER1)
18	PWM Configuration Header (PWM_CFG1)
19	System Panel Header (PANEL1)
20	Auxiliary Panel Header (ITX_AUX_PANEL1)
21	Non Maskable Interrupt Button (NMI_BTN1)
22	Clear CMOS Pad (CLRMOS1)
23	USB 2.0 Header (USB_1_2)
24	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
25	COM Port Header (COM1)
26	System Fan Connector (FAN3)
27	System Fan Connector (FAN2)
28	Thermal Sensor Header (TR1)
29	Intelligent Platform Management Bus Header (IPMB1)
30	M.2 Socket (M2_1) (Type 2280)

*Caution: Misconnection between the ATX4PIN1 and the SATA_PWR1 connectors may permanently damage the motherboard.

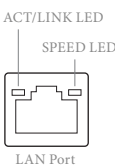
3 I/O Panel



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

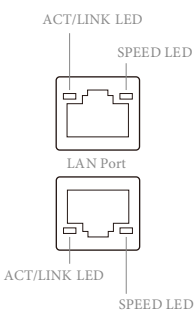
4 LAN Port LED Indications

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	1Gbps connection

10G LAN Port

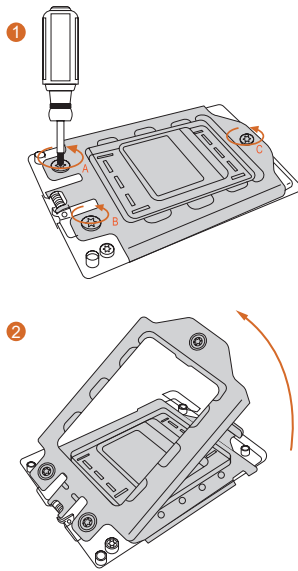


Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	100Mbps connection or no link
Blinking Yellow	Data Activity	Yellow	1Gbps connection
On	Link	Green	10Gbps connection

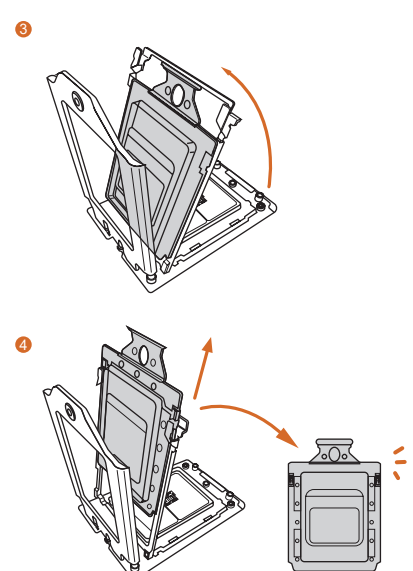


5 Install the Processor and Heatsink

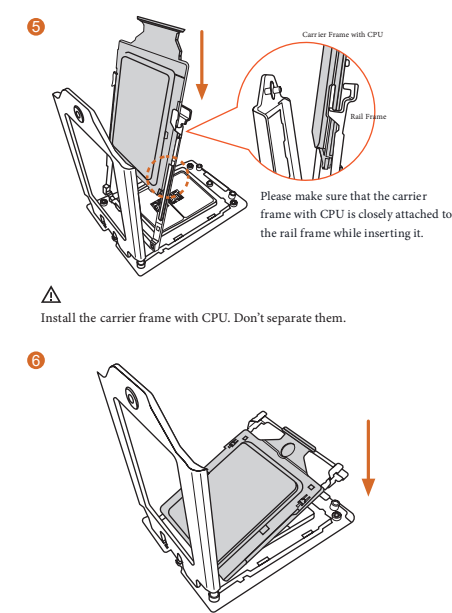
Locate the three torx screws on the CPU socket and unscrew them according to the order A→B→C. Open the first retention cover.



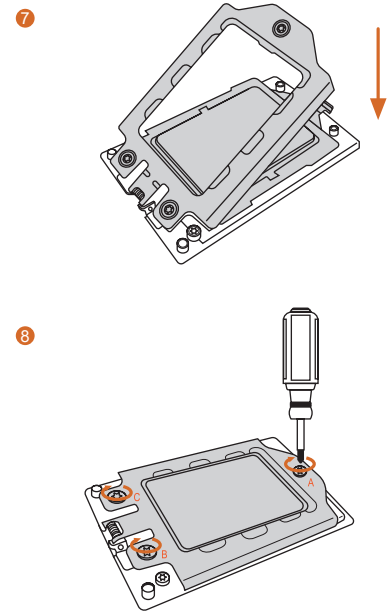
Open the second bracket. Take out the internal plastic cover.



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.



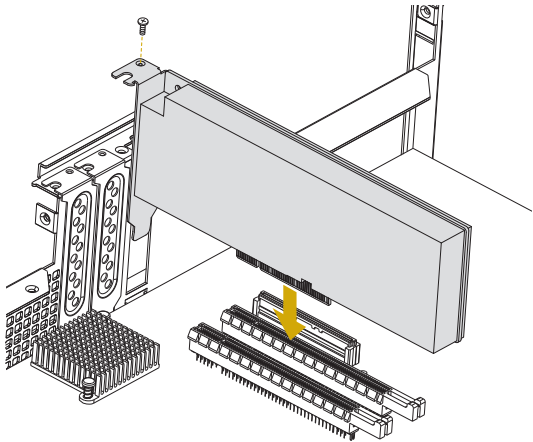
Close the bracket that holds the CPU. Close the retention cover. Fasten the torx screw according to the order A→B→C.



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

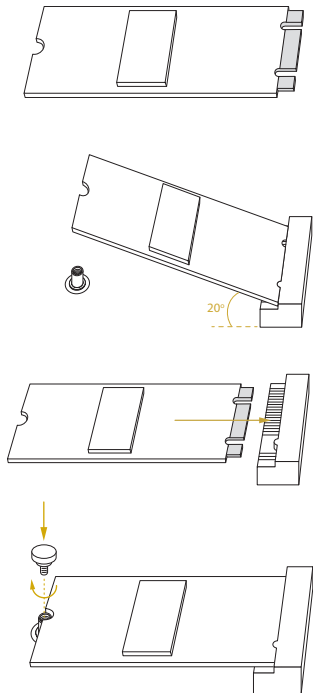
6 Install the PCIE Card

- 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.



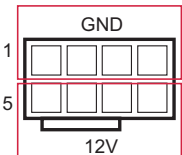
7 M.2_SSD (NGFF) Module Installation

- 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 Hand tighten the thumbscrew to secure the module into place. Please do not overtighten the screw as this might damage the module.

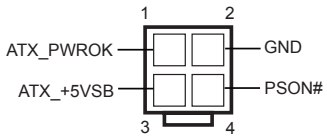


8 Power Connectors

ATX 12V Power
(ATX12V1/ATX12V2)

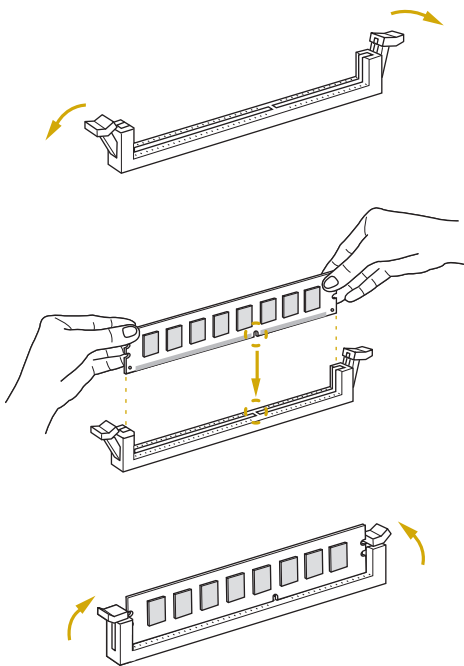


ATX 12V Power
(ATX4PIN1)



9 Install the Memory

- 1 Unlock a DIMM slot by pressing the module clips outward.
- 2 Insert the memory module.
- 3 Lock the clips.



Quad Channel Memory Configuration (without NVDIMM)

Priority	DDR4_C1	DDR4_D1	DDR4_G1	DDR4_H1
1	Populated	Populated		
2	Populated	Populated	Populated	Populated

NVDIMM Configuration

The table below shows the population guidelines for NVDIMMs. Please note that NVDIMMs only work with at least a RDIMM or a LRDIMM installed on the DDR4_D1 slot.

NVDIMM Quantity	DDR4_C1	DDR4_D1	DDR4_G1	DDR4_H1
1	NVDIMM	RDIMM /LRDIMM	Empty	Empty
1	RDIMM /LRDIMM	RDIMM /LRDIMM	NVDIMM	Empty
1	RDIMM /LRDIMM	RDIMM /LRDIMM	NVDIMM	RDIMM /LRDIMM
2	RDIMM /LRDIMM	RDIMM /LRDIMM	NVDIMM	NVDIMM
3	NVDIMM	RDIMM /LRDIMM	NVDIMM	NVDIMM