ROMED8-2T





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.
- 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

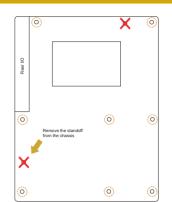
Insert the server board into the chassis

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

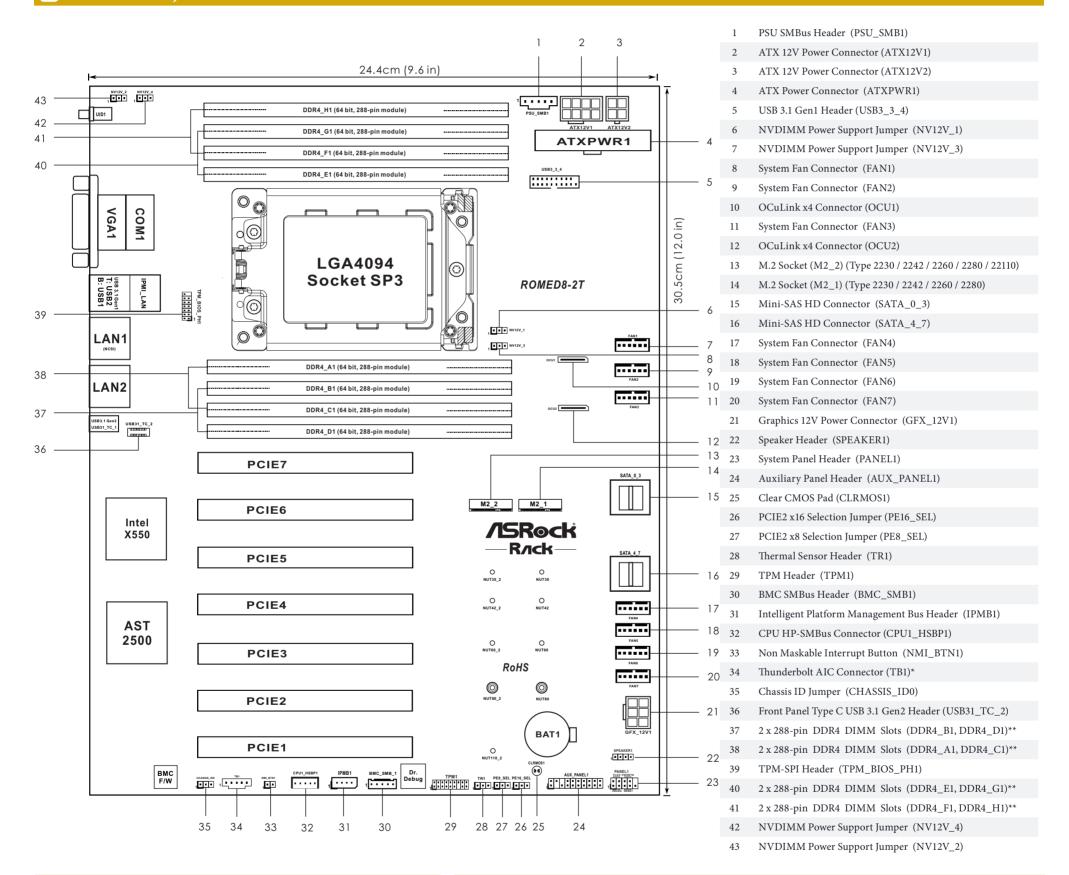
Do not over-tighten the screws



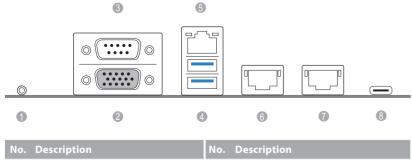
Attention! Before installing this motherboard, be sure to unscrew and remove the standoffs at the marked location, under the motherboard, from the chassis, in order to avoid electrical short circuit and damage to your motherboard.



2 Motherboard Layout

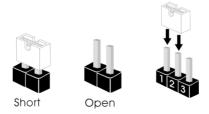


3 I/O Panel



No.	Description	No.	Description
1	UID Switch (UID1)	5	LAN RJ-45 Port (IPMI_LAN1)
2	VGA Port (VGA1)	6	10G LAN RJ-45 Port (LAN1)
3	Serial Port (COM1)	7	10G LAN RJ-45 Port (LAN2)
4	USB 3.1 Gen1 Ports (USB3_1_2)	8	USB 3.1 Gen2 Port (USB31_TC_1)

4 Jumper Settings (PE8_SEL / PE16_SEL)



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.

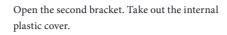
PE8_SEL	PE16_SEL	PCIE2	M2_1	SATA_4_7	OCU1 & OCU2
1_2	1_2	O (x16)	Х	X	Х
1_2	2_3	O (x8)	0	0	Х
2_3	2_3	×	0	0	0
2_3	1_2	X	Х	Х	0

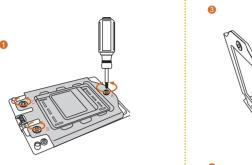


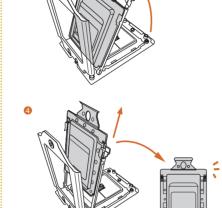


5 Install the Processor and Heatsink

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







me with CPU is closely attached to

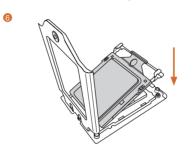
Install CPU along with the carrier frame, do not

separate them. Please make sure the carrier frame

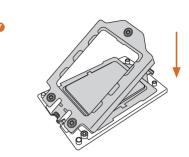
with CPU is closely attached to the rail frame while

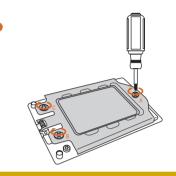
inserting it.

Install the carrier frame with CPU. Don't separate them



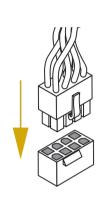
Close the bracket that holds the CPU. Close the retention cover. Fasten the torx screw according to the order A→B→C.

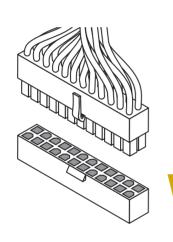




We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

6 Install the Power Cables

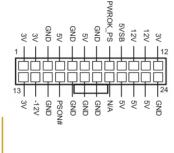




No Link

Link

Data Activity



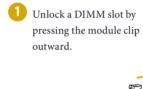


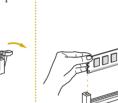


100Mbps connection or

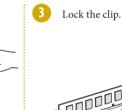
1Gbps connection

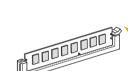
10Gbps connection





Insert the memory module.





10 M.2_SSD (NGFF) Module Installation

1 Find the corresponding nut location to be used.

8 LAN Port LED Indications

Off

Blinking Yellow



LAN Port

ACT/LINK LED

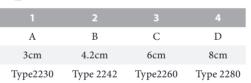
Activity / Link LE	D	Speed LEC	Speed LED		
Status	Description	Status	Description		
Off	No Link	Off	10M bps connection or no		
			link		
Blinking Yellow	Data Activity	Yellow	100M bps connection		
On	Link	Green	1Gbps connection		
	•				

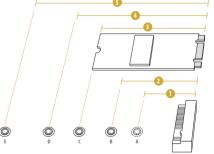
Off

Off

Green

M2_1:





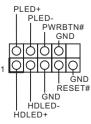
M2_2:

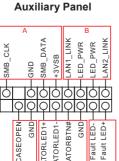
	2			5
A	В	С	D	Е
3cm	4.2cm	6cm	8cm	11cm
Type2230	Type 2242	Type2260	Type 2280	Type 22110

Move the standoff based on the module type and length.



System Panel





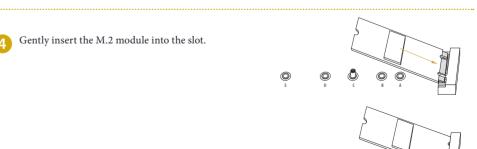
TPM-SPI

no link

SPI PIRQ-	Ю		
SPI_RST-	Ō	Ó	-TPM_CS#
MOSI-	Q	Ó	– GND
SPI_CLK-	Q	Ó	- RSMRST#
X -	Q	Ó	-MISO
+3.3V -	Q	Ó	- SPI_CS
PI_HOLD -	Ō	Ō	- SPI_WP
		1	-

tighten the standoff into the desired location.

Peel off the yellow protective film on the nut. Hand



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

