



P/N: 15G065100003AK V2.0

Quick Installation Guide

EPC621D8A



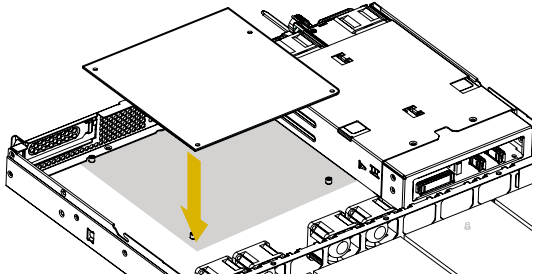
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

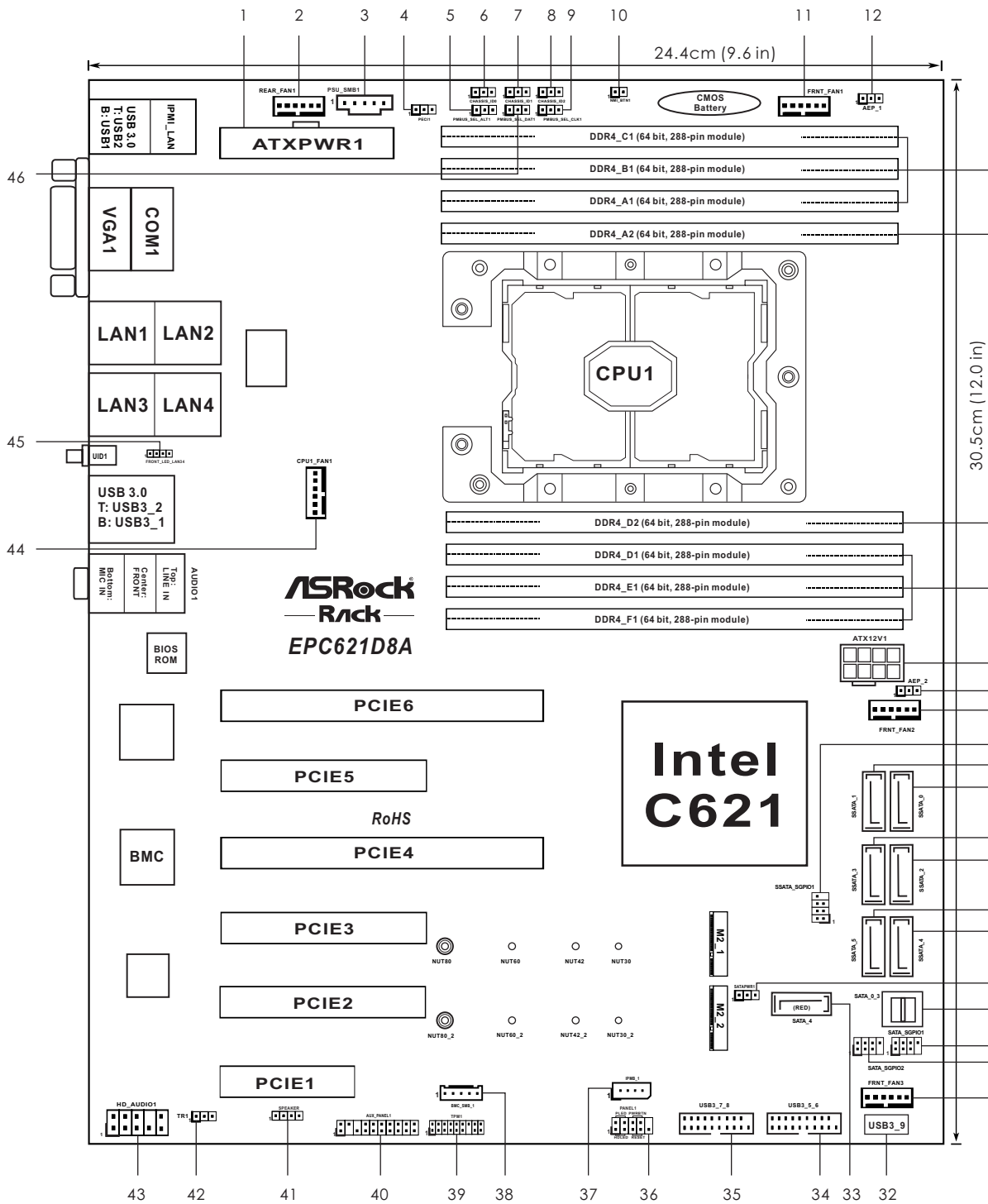
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before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

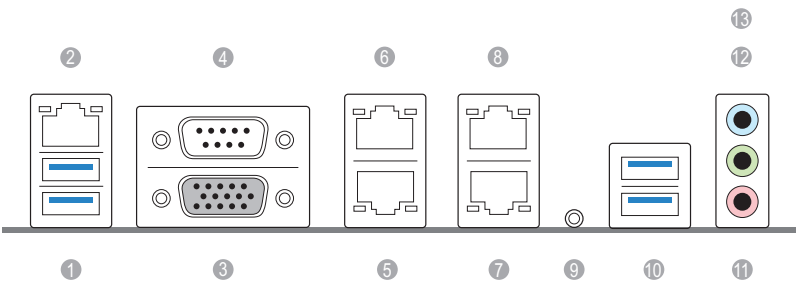


2 Motherboard Layout



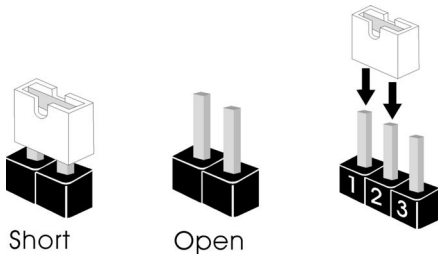
No.	Description
1	ATX Power Connector (ATXPWR1)
2	Rear Fan Connector (REAR_FAN1)
3	PSU SMBus (PSU_SMB1)
4	CPU PECI Jumper (PECI1)
5	PMBUS Mode Jumper (PMBUS_SEL_ALT1)
6	Chassis ID0 Jumper (CHASSIS_ID0)
7	Chassis ID1 Jumper (CHASSIS_ID1)
8	Chassis ID2 Jumper (CHASSIS_ID2)
9	PMBUS Mode Jumper (PMBUS_SEL_CLK1)
10	Non Maskable Interrupt Button (NMI_BTN1)
11	Front Fan Connector (FRNT_FAN1)
12	Support NVDIMM Jumer (AEP_1)
13	3 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_B1, DDR4_C1, Blue)
14	1 x 288-pin DDR4 DIMM Slot (DDR4_A2, White)
15	1 x 288-pin DDR4 DIMM Slot (DDR4_D2, White)
16	3 x 288-pin DDR4 DIMM Slots (DDR4_D1, DDR4_E1, DDR4_F1, Blue)
17	ATX 12V Power Connector (ATX12V1)
18	Support NVDIMM Jumer (AEP_2)
19	Front Fan Connector (FRNT_FAN2)
20	SATA SGPIO Connector (SSATA_SGPIO1)
21	SATA2 Connector (SSATA_1)
22	SATA2 Connector (SSATA_0)
23	SATA2 Connector (SSATA_3)
24	SATA2 Connector (SSATA_2)
25	SATA2 Connector (SSATA_5)
26	SATA2 Connector (SSATA_4)
27	SATA DOM Power Jumper (SATAPWR1)
28	MINI-SAS HD Connector (SATA_0_3)
29	SATA SGPIO Connector (SATA_SGPIO1)
30	SATA SGPIO Connector (SATA_SGPIO2)
31	Front Fan Connector (FRNT_FAN3)
32	Vertical Type A USB 3.0 (USB3_9)
33	SATA3 DOM Connector (SATA_4), Red
34	USB 3.0 Header (USB3_5_6)
35	USB 3.0 Header (USB3_7_8)
36	System Panel Header (PANEL1)
37	Intelligent Platform Management Bus header (IPMB_1)
38	BMC SMBus Header (BMC_SMB_1)
39	TPM Header (TPM1)
40	Auxiliary Panel Header (AUX_PANEL1)
41	Speaker Header (SPEAKER1)
42	Thermal Sensor header (TR1)
43	Front Panel Audio Header (HD_AUDIO1)
44	CPU Fan Connector (CPU1_FAN1)
45	Front LAN LED Connector (FRONT_LED_LAN34)
46	PMBUS Mode Jumper (PMBUS_SEL_DAT1)

3 I/O Panel



No.	Description	No.	Description
1	USB 3.0 Ports (USB3_1_2)	8	LAN RJ-45 Port (LAN4)
2	LAN RJ-45 Port (IPMI_LAN)	9	UID Switch (UID1)
3	VGA Port (VGA1)	10	USB 3.0 Ports (USB3_3_4)
4	Serial Port (COM1)	11	Microphone (Pink)
5	LAN RJ-45 Port (LAN1)	12	Front Speaker (Lime)
6	LAN RJ-45 Port (LAN2)	13	Line In (Light Blue)
7	LAN RJ-45 Port (LAN3)		

4 Jumper Cap On/Off

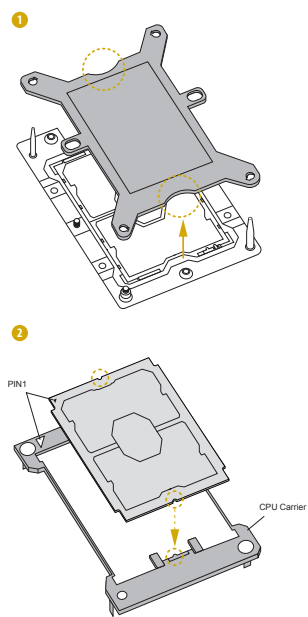


When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

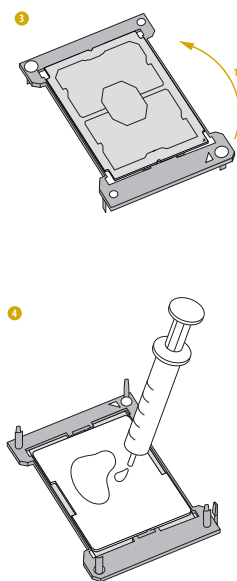
The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.

5 Install the Processor and Heatsink

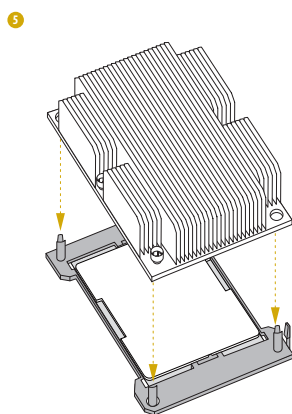
Remove the CPU socket cover. Align and install the processor on the carrier.



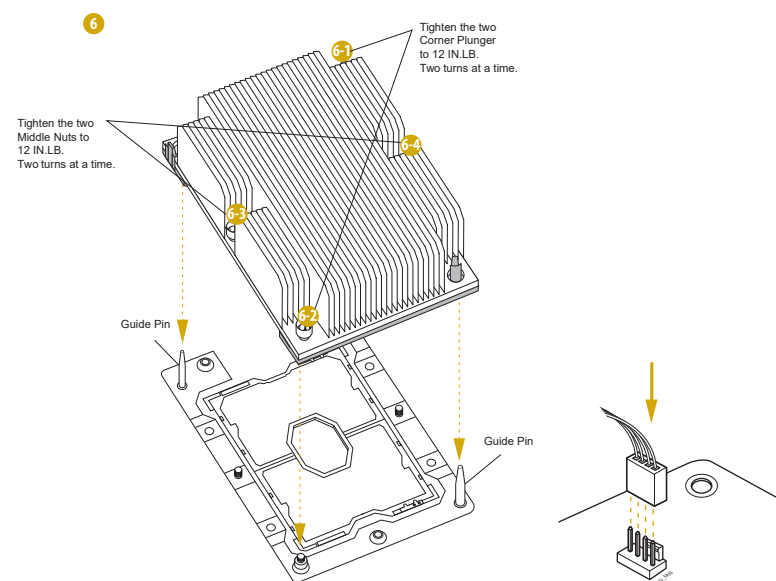
Carefully flip the carrier assembly. Apply a thermal paste.



Then install the heatsink to the carrier assembly and make sure the arrow is located in the correct direction.

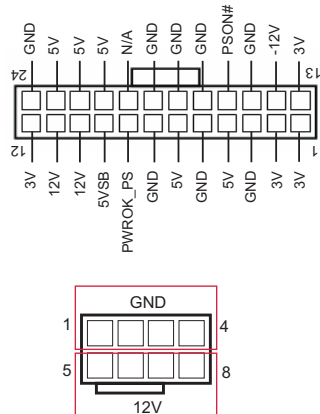
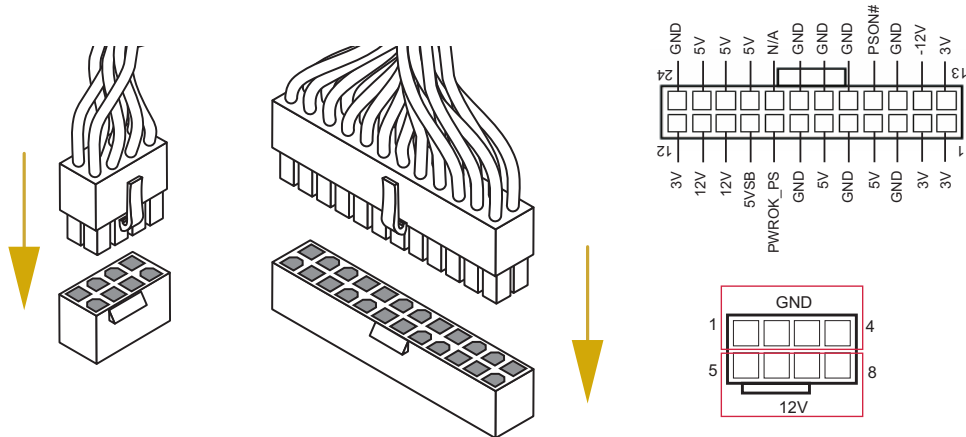


Install the heatsink. Tighten the screws in a sequential order (6-1>6-2>6-3>6-4). When disassembling the heatsink, loosen the screws in reverse order (6-4>6-3>6-2>6-1). Connect the CPU fan to the CPU FAN connector.



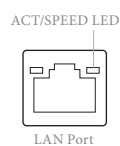
We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

6 Install the Power Cables



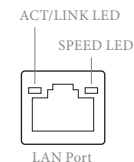
7 LAN Port LED Indications

LAN Port



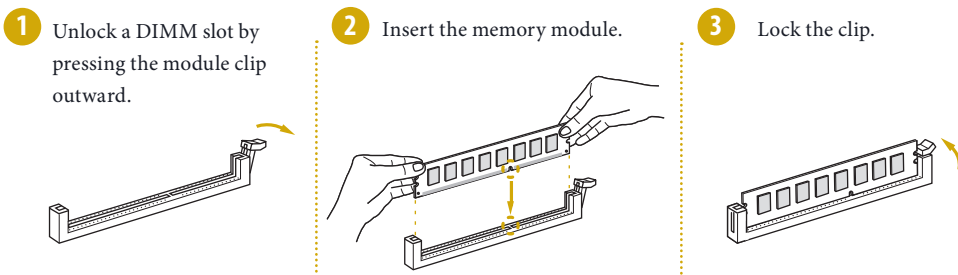
Activity / Speed LED	
Status	Description
Off	No Link
Solid Green	Link Up (1Gbps connection)
Blinking Green	Data Activity

IPMI LAN Port

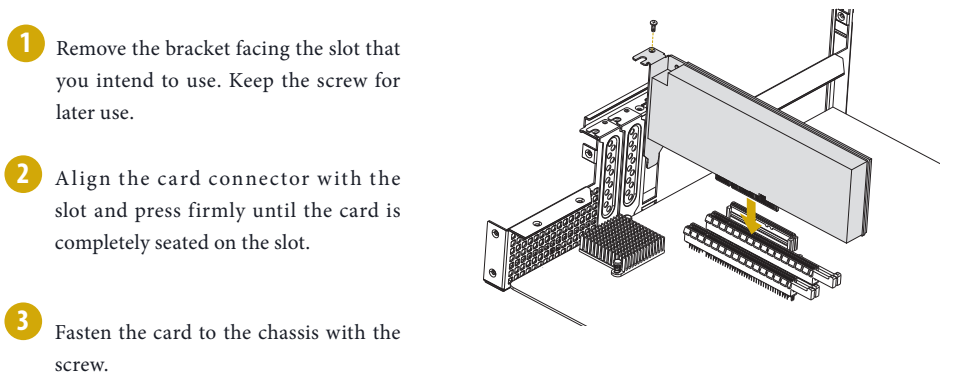


Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M bps connection or no link
Blinking Yellow	Data Activity	Yellow	100M bps connection
On	Link	Green	1G bps connection

8 Install the Memory



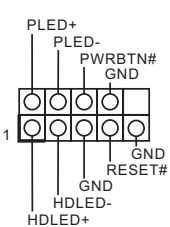
9 Install the PCIe Card



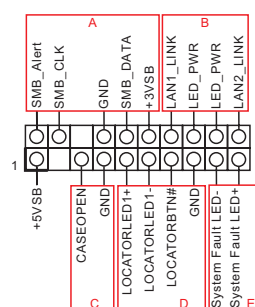
*Images shown are for illustrative purposes only and may differ depending on model.

10 Headers

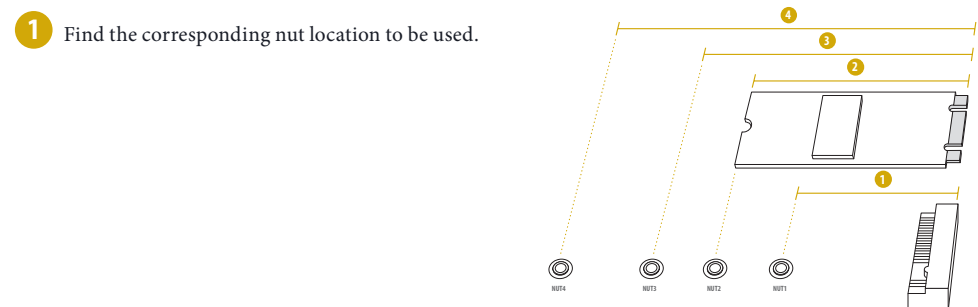
System Panel



Auxiliary Panel



11 M.2_SSD (NGFF) Module Installation



No.	1	2	3	4
Nut Location	NUT30	NUT42	NUT60	NUT80
PCB Length	3cm	4.2cm	6cm	8cm
Module Type	Type 2230	Type 2242	Type2260	Type 2280

