P/N: 15G065291001AR V1.1

Quick Installation Guide

ALTRAD8UD-1L | ALTRAD8UD-1L2T

ASRock Rack
www.asrockrack.com

ALTRAD8UD-1L

ALTRAD8UD-1L2T

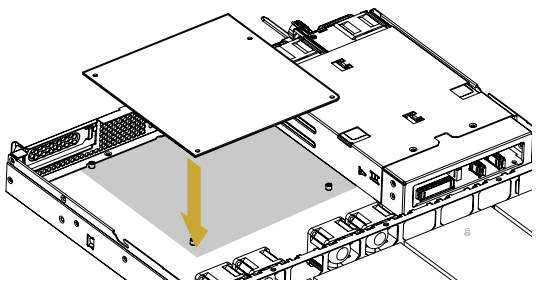
The server board User's Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

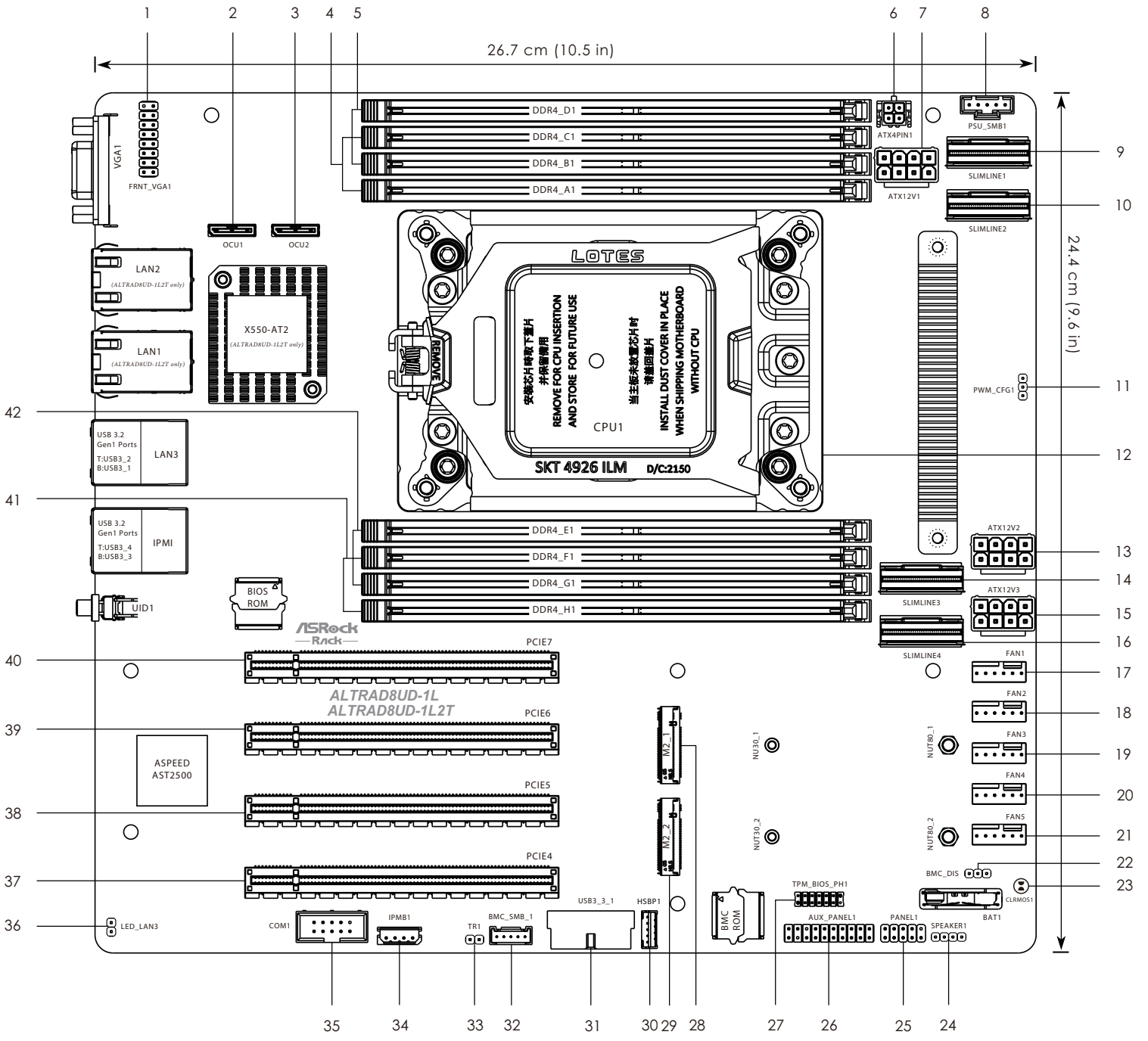
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place the server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before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

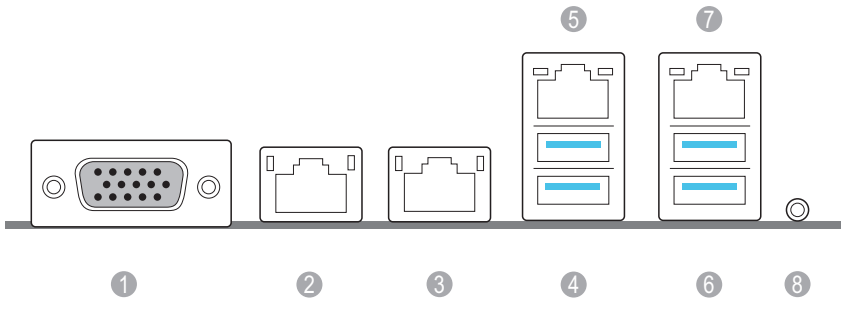


2 Motherboard Layout



No.	Description
1	Front VGA Header (FRNT_VGA1)
2	OCuLink Connector (PCIe4.0 x4) (OCU1)
3	OCuLink Connector (PCIe4.0 x4) (OCU2)
4	2 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_C1)
5	2 x 288-pin DDR4 DIMM Slots (DDR4_B1, DDR4_D1)
6	Micro-Fit ATX 4Pin Power Connector (ATX4PIN1)
7	ATX 12V Power Connector (ATX12V1)
8	PSU SMBus Header (PSU_SMB1)
9	Slimline x8 Connector (SLIMLINE1)
10	Slimline x8 Connector (SLIMLINE2)
11	PWM Configuration Header (PWM_CFG1)
12	LGA 4926 CPU Socket (CPU1)
13	ATX 12V Power Connector (ATX12V2)
14	Slimline x8 Connector (SLIMLINE3)
15	ATX 12V Power Connector (ATX12V3)
16	Slimline x8 Connector (SLIMLINE4)
17	System Fan Connector (FAN1)
18	System Fan Connector (FAN2)
19	System Fan Connector (FAN3)
20	System Fan Connector (FAN4)
21	System Fan Connector (FAN5)
22	BMC Disabled Jumper (BMC_DIS)
23	Clear CMOS Pad (CLRMOS1)
24	Speaker Header (SPEAKER1)
25	System Panel Header (PANEL1)
26	Auxiliary Panel Header (AUX_PANEL1)
27	SPI TPM Header (TPM_BIOS_PH1)
28	M-key M.2 Socket (M2_1) (Type 2260/2280)
29	M-key M.2 Socket (M2_2) (Type 2260/2280)
30	Backplane PCI Express Hot-Plug Connector (HSBP1)
31	USB 3.2 Gen1 Header (USB3_3_1)
32	BMC SMBus Header (BMC_SMB_1)
33	Thermal Sensor Header (TR1)
34	Intelligent Platform Management Bus Header (IPMB1)
35	Serial Port Header (COM1)
36	Front LAN LED Connector (LED_LAN3)
37	PCI Express 4.0 x16 Slot (PCIE4)
38	PCI Express 4.0 x16 Slot (PCIE5)
39	PCI Express 4.0 x16 Slot (PCIE6)
40	PCI Express 4.0 x16 Slot (PCIE7)
41	2 x 288-pin DDR4 DIMM Slots (DDR4_F1, DDR4_H1)
42	2 x 288-pin DDR4 DIMM Slots (DDR4_E1, DDR4_G1)

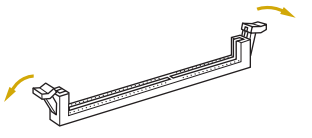
3 I/O Panel



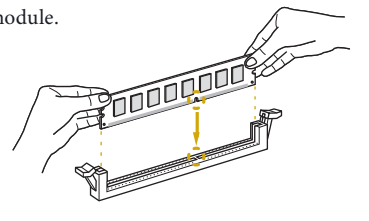
No.	Description	No.	Description
1	VGA Port (VGA1)	5	1G LAN RJ-45 Port (LAN3)
2	10G LAN RJ-45 Port (LAN2) *(ALTRAD8UD-1L2T only)*	6	USB 3.2 Gen1 Ports (USB3_3_4)
3	10G LAN RJ-45 Port (LAN1, shared NIC) *(ALTRAD8UD-1L2T only)*	7	LAN RJ-45 Port (IPMI)
4	USB 3.2 Gen1 Ports (USB3_1_2)	8	UID Switch (UID1)

4 Install the Memory

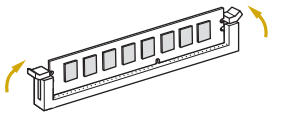
1. Unlock a DIMM slot by pressing the module clips outward.



2. Insert the memory module.



3. Lock the clips.



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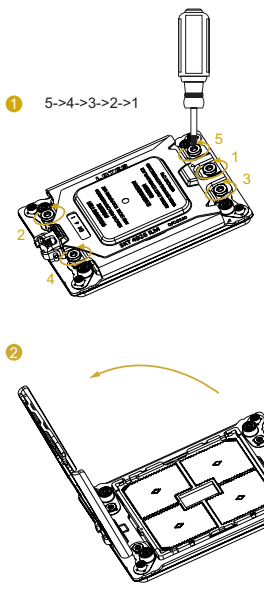
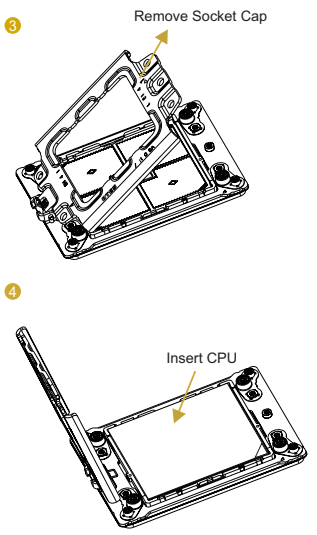
5 Install the Processor

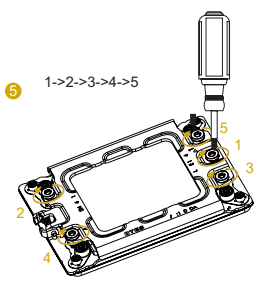
Locate the screw on the CPU socket and unscrew it. Open the retention cover.



Remove the socket cap and install CPU to the socket.



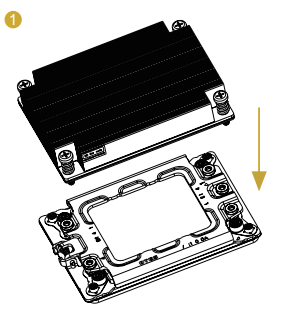
Close the retention cover and fasten the screw.



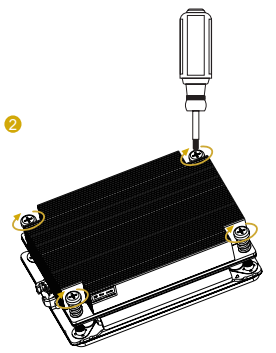
We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

6 Install the Heatsink

Install the heatsink to the CPU carrier.

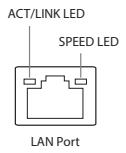


Secure the heastink to the CPU carrier with a screwdriver.



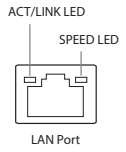
7 LAN Port LED Indications

IPMI LAN Port



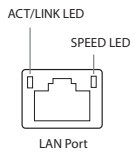
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection or no link
Blinking Yellow (Orange)	Data Activity	Yellow	100Mbps connection
On	Link	Green	1Gbps connection

1G LAN Port



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

10G LAN Port

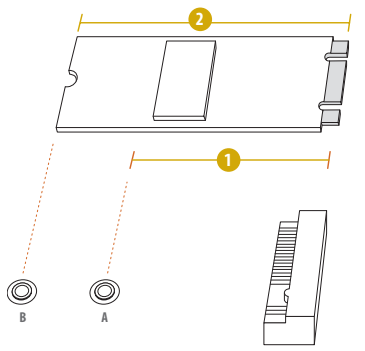


(ALTRAD8UD-1L2T only)

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

8 M.2 SSD Module Installation

1 Find the corresponding nut location to be used.

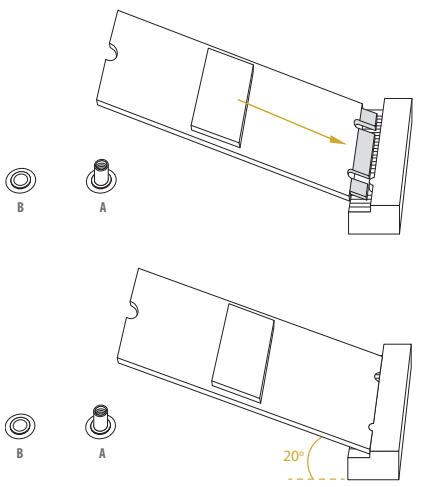


No.	1	2
Nut Location	A (NUT30)	B (NUT80)
PCB Length	3cm	8cm
Module Type	Type2230	Type 2280

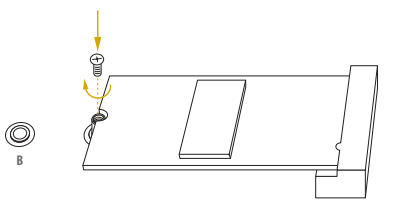
2 Move the standoff based on the module type and length.

3 Peel off the protective film on the nut. Hand tighten the standoff into the desired location.

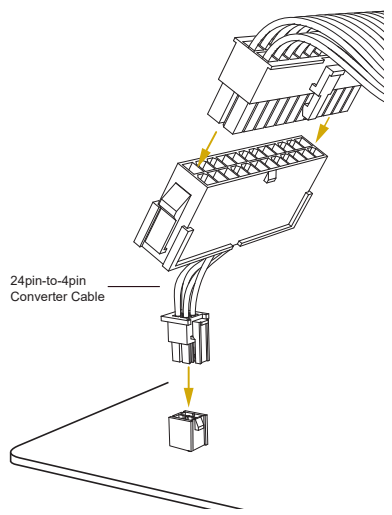
4 Align and gently insert the M.2 module into the slot.



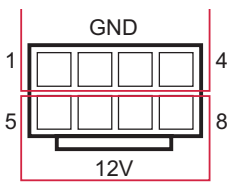
5 Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw.



9 Install the Power Cables

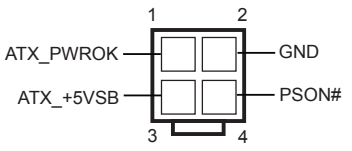


ATX12V



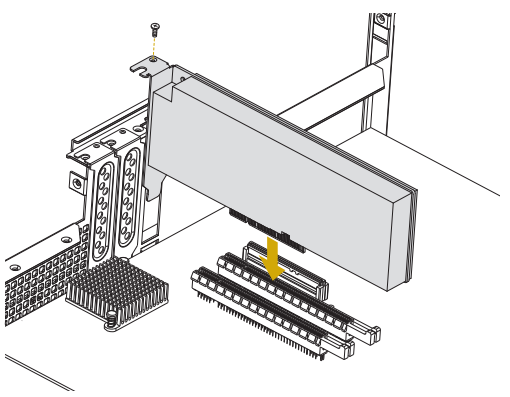
ATX4PIN1

Micro-Fit Power Connector



10 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.