



P/N: 15G065258001AK V1.1

Quick Installation Guide

B650D4U-2L2T/BCM | B650D4U-2L2T | B650D4U



B650D4U-2L2T/BCM



B650D4U-2L2T



B650D4U

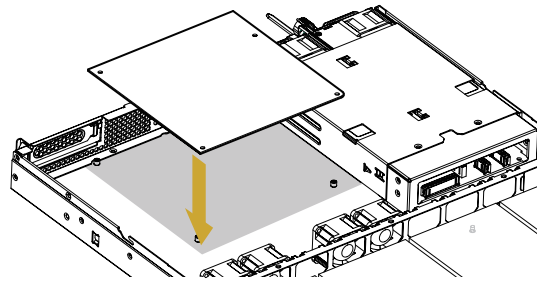
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

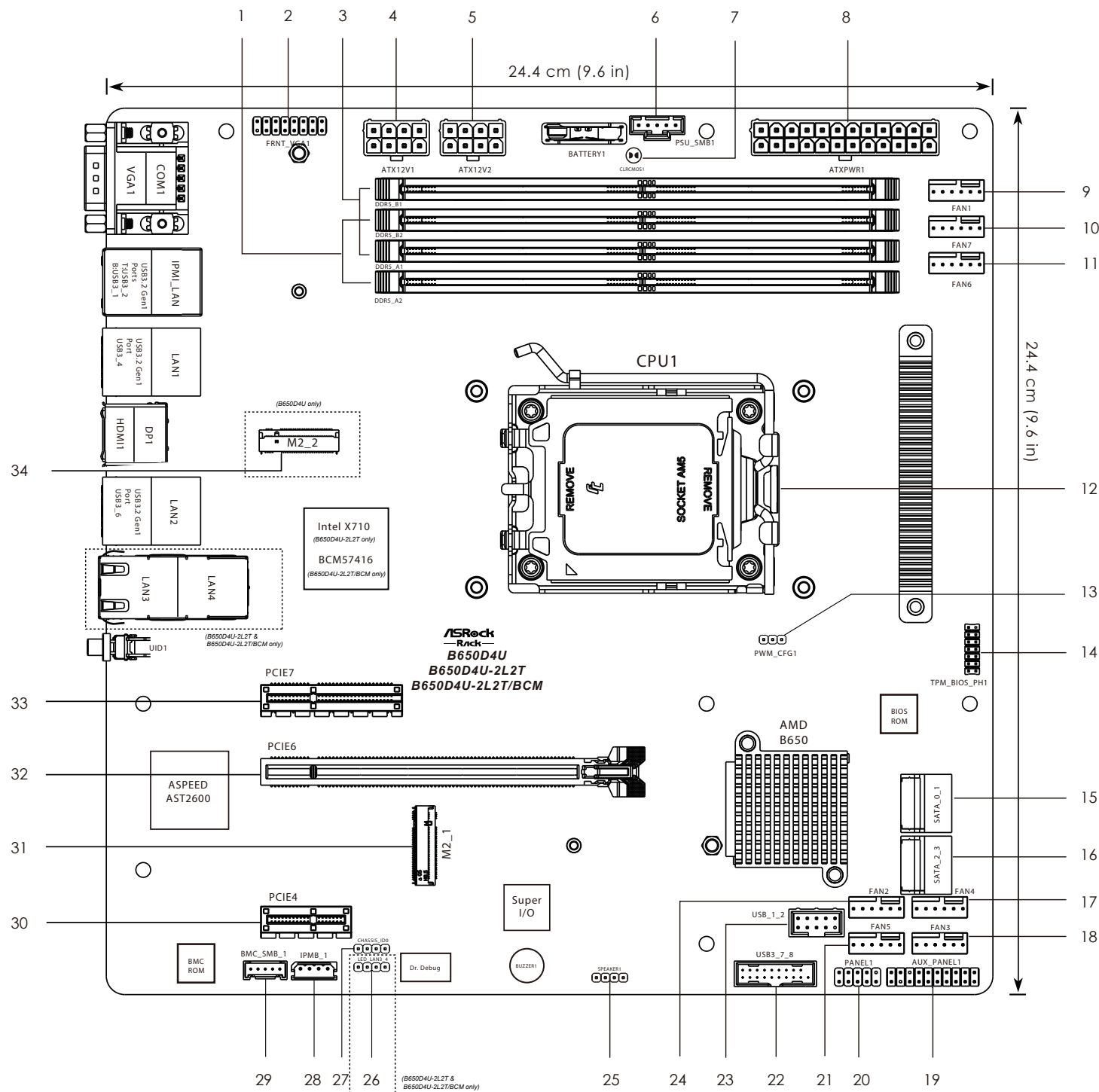
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before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



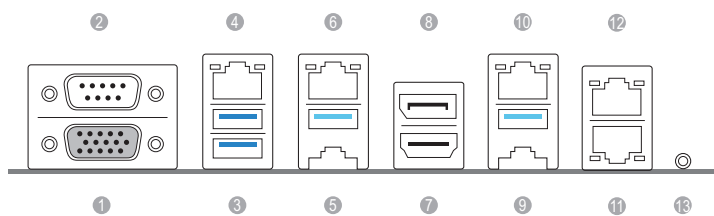
2 Motherboard Layout



No.	Description
1	2 x 288-pin DDR5 DIMM Slots (DDR5_A2, DDR5_B2)
2	Front VGA Header (FRNT_VGA1)
3	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_B1)
4	ATX 12V Power Connector (ATX12V1)
5	ATX 12V Power Connector (ATX12V2)
6	PSU SMBus Header (PSU_SMB1)
7	Clear CMOS Pad (CLRCMOS1)
8	ATX Power Connector (ATXPWR1)
9	System Fan Connector (FAN1)
10	System Fan Connector (FAN7)
11	System Fan Connector (FAN6)
12	AMD Socket AM5 (LGA 1718)
13	PWM Configuration Header (PWM_CFG1)
14	SPI TPM Header (TPM_BIOS_PH1)
15	SATA3 Connectors (SATA_1)(Upper), (SATA_0)(Lower)
16	SATA3 Connectors (SATA_3)(Upper), (SATA_2)(Lower)
17	System Fan Connector (FAN4)
18	System Fan Connector (FAN3)
19	Auxiliary Panel Header (AUX_PANEL1)
20	System Panel Header (PANEL1)
21	System Fan Connector (FAN5)
22	USB 3.2 Gen1 Header (USB3_7_8)
23	USB 2.0 Header (USB_1_2)
24	System Fan Connector (FAN2)
25	Speaker Header (SPEAKER1)
26	Front LAN LED Connector (LED_LAN3_4) (B650D4U-2L2T, B650D4U-2L2T/BCM only)
27	Chassis ID Jumper (CHASSIS_ID0)
28	Intelligent Platform Management Bus Header (IPMB_1)
29	BMC SMBus Header (BMC_SMB_1)
30	PCI Express 4.0 x1 Card Slot (PCIE4)
31	M.2 Socket (M2_1) (Type 2242/2280)
32	PCI Express 5.0 x16 Card Slot (PCIE6)
33	PCI Express 5.0 x4 Card Slot (PCIE7)
34	M.2 Socket (M2_2) (Type 2242/2280) (B650D4U only)

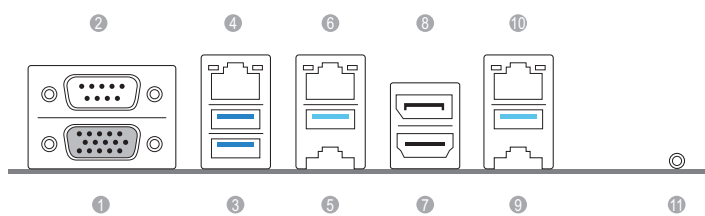
3 I/O Panel

B650D4U-2L2T/BCM / B650D4U-2L2T:



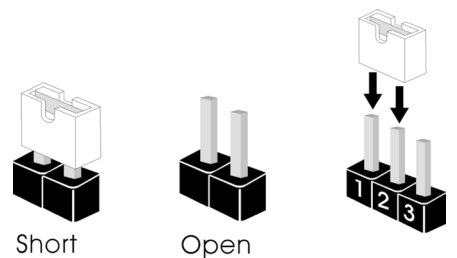
No.	Description	No.	Description
1	VGA Port (VGA1)	8	DisplayPort (DP1)
2	Serial Port (COM1)	9	USB 3.2 Gen1 Port (USB3_6)
3	USB 3.2 Gen1 Ports (USB3_1_2)	10	1G LAN RJ-45 Port (LAN2)
4	LAN RJ-45 Port (IPMI_LAN1)	11	10G LAN RJ-45 Port (LAN3, shared NIC)
5	USB 3.2 Gen1 Port (USB3_4)	12	10G LAN RJ-45 Port (LAN4)
6	1G LAN RJ-45 Port (LAN1)	13	UID Switch (UID1)
7	HDMI Port (HDMI1)		

B650D4U:



No.	Description	No.	Description
1	VGA Port (VGA1)	7	HDMI Port (HDMI1)
2	Serial Port (COM1)	8	DisplayPort (DP1)
3	USB 3.2 Gen1 Ports (USB3_1_2)	9	USB 3.2 Gen1 Port (USB3_6)
4	LAN RJ-45 Port (IPMI_LAN1)	10	1G LAN RJ-45 Port (LAN2)
5	USB 3.2 Gen1 Port (USB3_4)	11	UID Switch (UID1)
6	1G LAN RJ-45 Port (LAN1)		

4 Jumper Cap On/Off

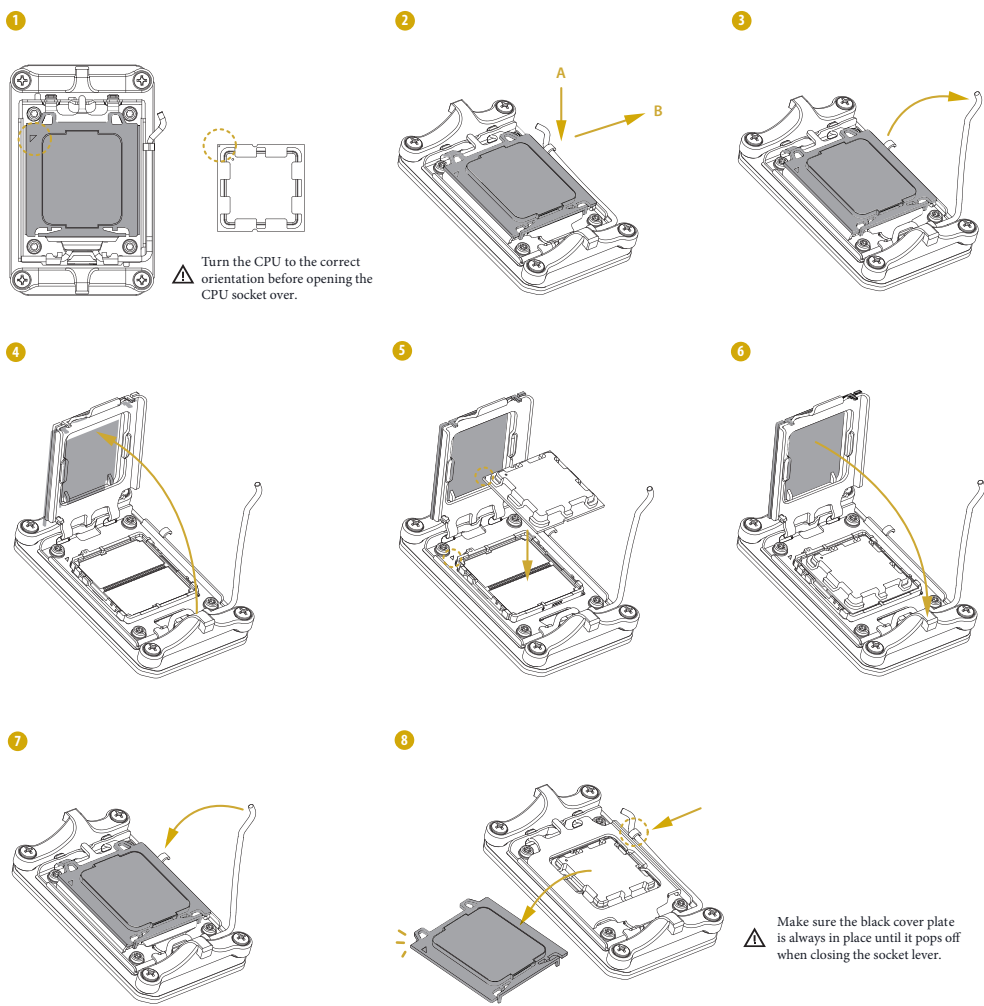


When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

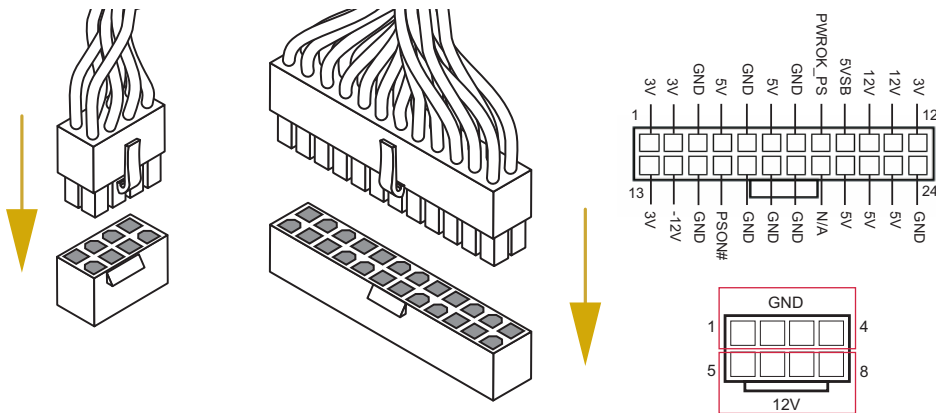
The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.



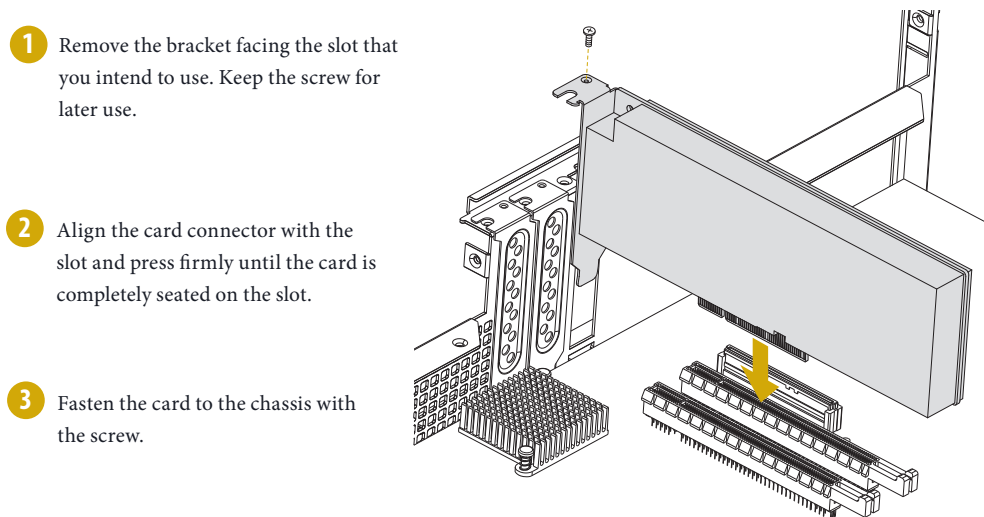
5 Install Processor



8 Install Power Cables



10 Install PCIE Card



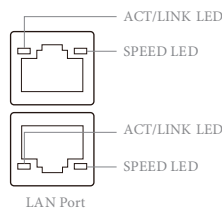
*Images shown are for illustrative purposes only and may differ depending on model.



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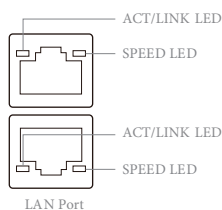
6 LAN Port LED Indications

10G LAN Port



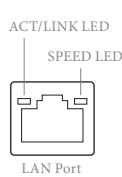
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M/100Mbps connection or no link
Blinking Yellow	Data Activity	Orange	1Gbps connection
On	Link	Green	10Gbps connection

1G LAN Port



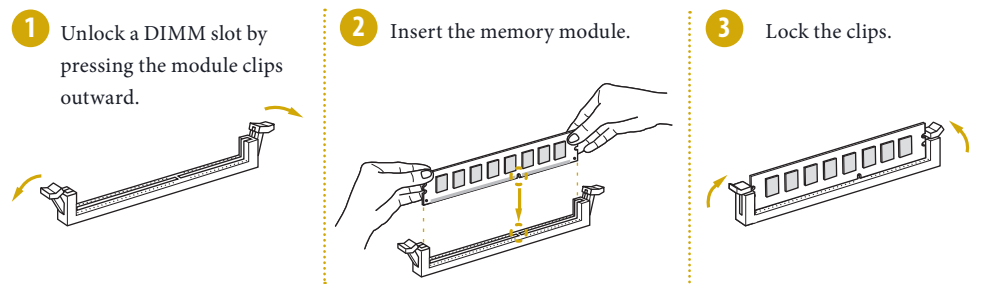
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection or no link
Blinking Orange	Data Activity	Yellow	100Mbps connection
On	Link	Green	1Gbps connection

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

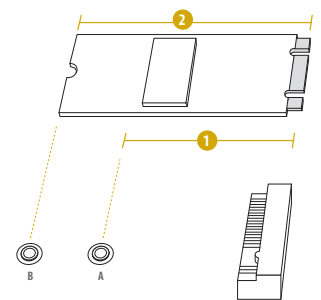
7 Install Memory



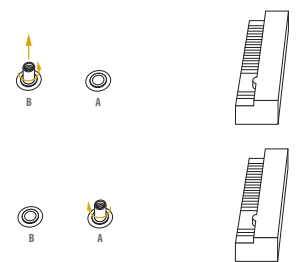
9 Install M.2 SSD Module

- 1 Find the corresponding nut location to be used.

No.	1	2
Nut Location	B	A
PCB Length	4.2cm	8cm
Module Type	Type2242	Type 2280

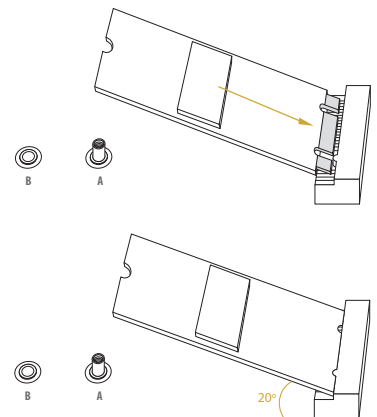


- 2 Move the standoff based on the module type and length.



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

- 3 Gently insert the M.2 module into the slot.



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

