



P/N: 15G065377003AK V2.1

Quick Installation Guide

GNR2D32G-2L+



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

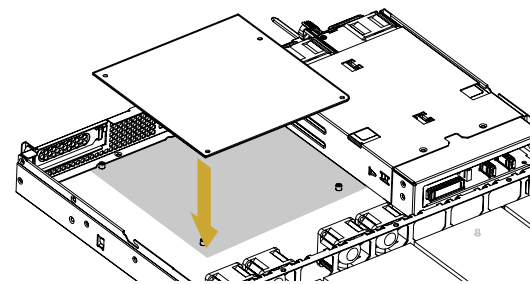
Take note of the following precautions before installing server board components or change any server board settings.

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 handling 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.

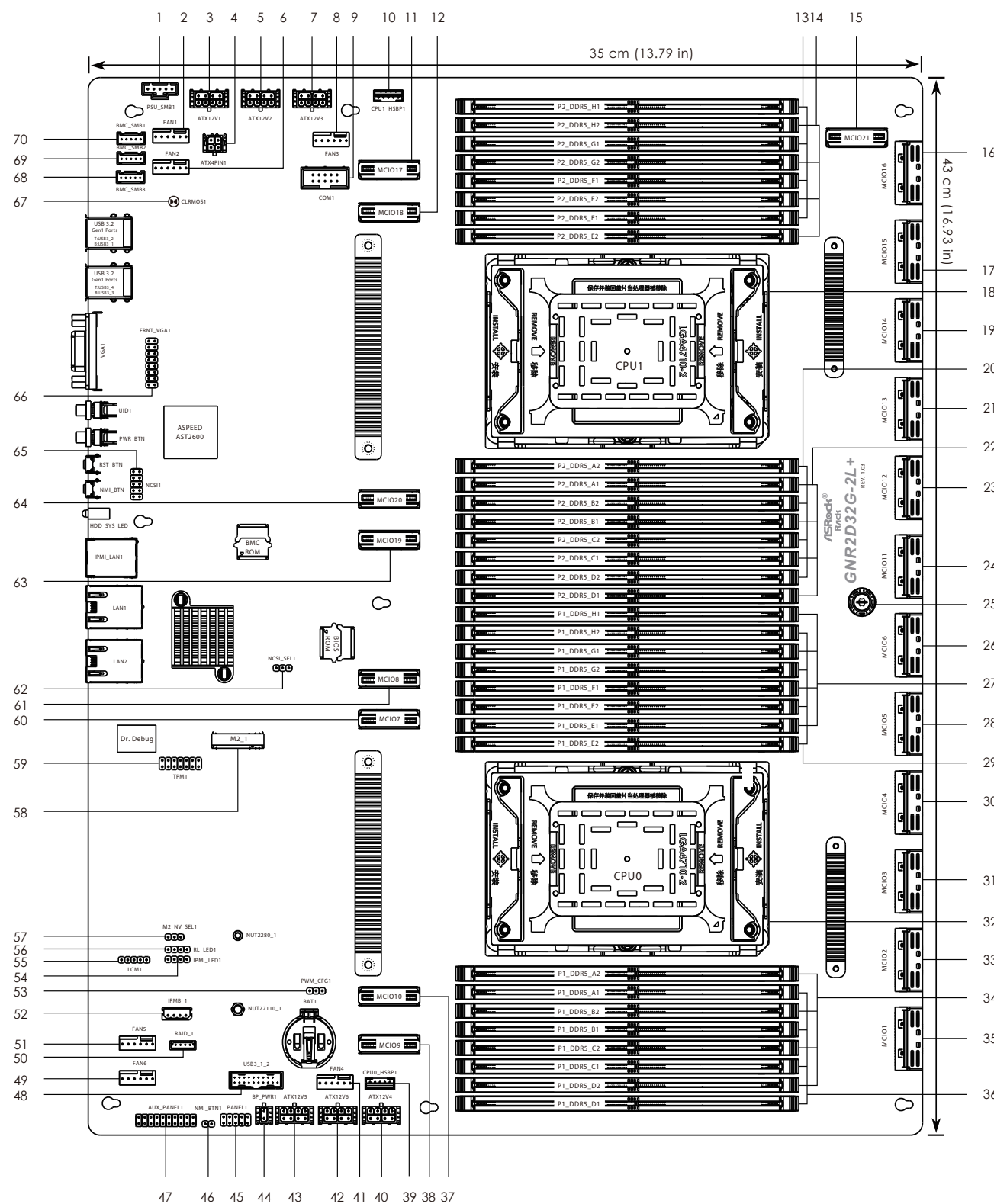
1 Install Server Board

- 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

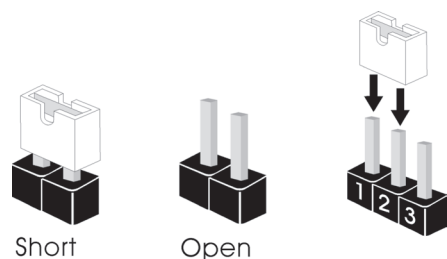


2 Motherboard Layout



No.	Description
1	PSU SMBus (PSU_SMB1)
2	System Fan Header (FAN1)
3	ATX 12V Power Connector (ATX12V1)
4	Micro-Fit Power Connector (ATX4PIN1)
5	ATX 12V Power Connector (ATX12V2)
6	System Fan Header (FAN2)
7	ATX 12V Power Connector (ATX12V3)
8	System Fan Header (FAN3)
9	COM Port Header (COM1)
10	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
11	Mini Cool Edge IO Connector (MCIO17)
12	Mini Cool Edge IO Connector (MCIO18)
13	4 DDR5 DIMM Slots (P2_DDR5_E1/F1/G1/H1)
14	4 DDR5 DIMM Slots (P2_DDR5_E2/F2/G2/H2)
15	Mini Cool Edge IO Connector (MCIO21)
16	Mini Cool Edge IO Connector (MCIO16)
17	Mini Cool Edge IO Connector (MCIO15)
18	Socket E2 (LGA4710) (CPU1)
19	Mini Cool Edge IO Connector (MCIO14)
20	4 DDR5 DIMM Slots (P2_DDR5_A2/B2/C2/D2)
21	Mini Cool Edge IO Connector (MCIO13)
22	4 DDR5 DIMM Slots (P2_DDR5_A1/B1/C1/D1)
23	Mini Cool Edge IO Connector (MCIO12)
24	Mini Cool Edge IO Connector (MCIO11)
25	Thumbscrew
26	Mini Cool Edge IO Connector (MCIO6)
27	4 DDR5 DIMM Slots (P1_DDR5_E1/F1/G1/H1)
28	Mini Cool Edge IO Connector (MCIO5)
29	4 DDR5 DIMM Slots (P1_DDR5_E2/F2/G2/H2)
30	Mini Cool Edge IO Connector (MCIO4)
31	Mini Cool Edge IO Connector (MCIO3)
32	Socket E2 (LGA4710) (CPU0)
33	Mini Cool Edge IO Connector (MCIO2)
34	4 DDR5 DIMM Slots (P1_DDR5_A2/B2/C2/D2)
35	Mini Cool Edge IO Connector (MCIO1)
36	4 DDR5 DIMM Slots (P1_DDR5_A1/B1/C1/D1)
37	Mini Cool Edge IO Connector (MCIO10)
38	Mini Cool Edge IO Connector (MCIO9)
39	Backplane PCI Express Hot-Plug Connector (CPU0_HSBP1)
40	ATX 12V Power Connector (ATX12V4)
41	System Fan Header (FAN4)
42	ATX 12V Power Connector (ATX12V6)
43	ATX 12V Power Connector (ATX12V5)
44	HDD Backplane Power Connector (BP_PWR1)
45	System Panel Header (PANEL1)
46	Non Maskable Interrupt Button (NMI_BTN1)
47	Auxiliary Panel Header (AUX_PANEL1)
48	USB 3.2 Gen1 Header (USB3_1_2)
49	System Fan Header (FAN6)
50	Virtual RAID On CPU Header (RAID_1)
51	System Fan Header (FAN5)
52	Intelligent Platform Management Bus Header (IPMB_1)
53	PWM Configuration Header (PWM_CFG1)
54	IPMI LAN LED Header (IPMI_LED1)
55	Liquid Crystal Module Header (LCM1)
56	Rear Panel LAN LED (RL_LED1)

3 Jumper Settings



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.

No.	Description
57	M.2 Signal Source Selection Jumper (M2_NV_SEL1)
58	M.2 Socket (M2_1) (Type 22110 / 2280)
59	SPI TPM Header (TPM1)
60	Mini Cool Edge IO Connector (MCIO7)
61	Mini Cool Edge IO Connector (MCIO8)
62	NCSI Mode Jumper (NCSI_SEL1)
63	Mini Cool Edge IO Connector (MCIO19)
64	Mini Cool Edge IO Connector (MCIO20)
65	Network Controller Sideband Interface Header (NCSI1)
66	Front VGA Header (FRNT_VGA1)
67	Clear CMOS Pad (CLRSMOS1)
68	BMC SMBus Header (BMC_SMB3)
69	BMC SMBus Header (BMC_SMB2)
70	BMC SMBus Header (BMC_SMB1)

