



msi G4101 Global Server User Guide

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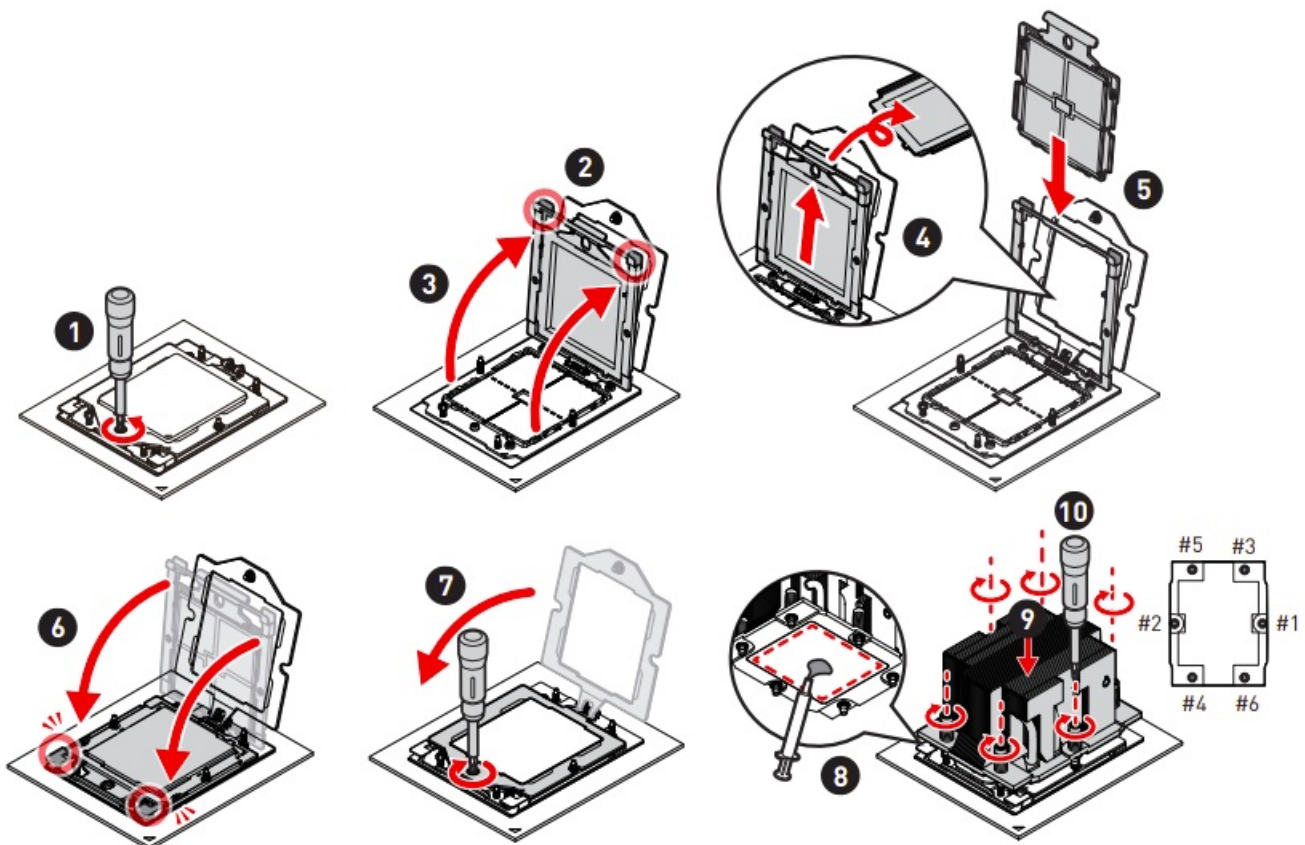
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Front Panel Connector



1	VDD_33_DUAL	2	P3V3_AUX	3	N/A	4	P3V3_AUX
5	FP_PWR_LED_B_R_N	6	FP_ID_LED_B_R_N	7	VDD_33_RUN	8	SYS_ERR_LED#_N
9	FP_HDD_ACT_LED_N	10	SYS_FLT_LED#_N	11	FP_PWR_BTN_L_R	12	VDD_33_DUAL
13	GND	14	LAN_NIC_0_ACT_N_R	15	FP_RST_BTN_L_R	16	SMB_BMC_HSBP_STBY_LVC3_SDA
17	GND	18	SMB_BMC_HSBP_STBY_LVC3_SCL	19	FP_ID_BTN_N_R	20	FP_CHASSIS_INTRUSION (TP)
21	GND	22	VDD_33_DUAL	23	NMI_BTN_N_R	24	LAN_NIC_1_ACT_N_R

CPU and Heatsink Installation



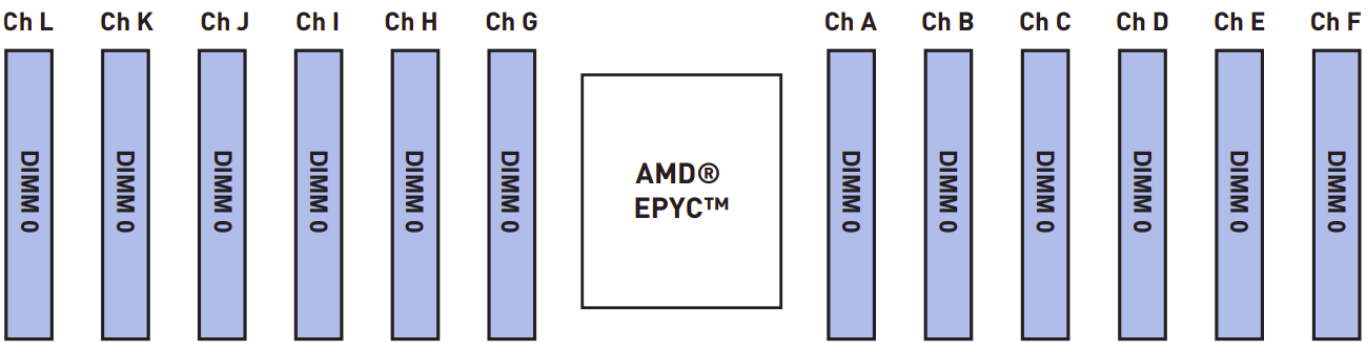
Connectors, Jumpers and LED Indicators

Name	Description
JMCIO1~8	MCIO 8i connectors
M2_1~2	M.2 slots (M Key, PCIe 3.0 x4/x2, 22110/ 2280)
PCIE_SLOT1~4	PCIe 5.0 x 16 slots (Gen 5 x16 signal)
PCIE_SLOT5~6	PCIe 4.0 x 16 slots (Gen 4 x8/x16 signal)
JPWR_MB1~4	6-pin 12V power connectors (for MB PWR)
JPWR_MB5	6-pin 12V power connector (for BP PWR)
JPWR_MB6, JPWR_MB8	4-pin power connectors (5V)
JPWR_MB7, JPWR_MB9	4-pin power connectors (3V)
JPWR_HDD1	HDD/SATA power connector (on PDB)
SYS_FAN1~8	System/CPU fan power connectors
CPU_FAN1~2	CPU pump power connectors
WATER_LEAKING1	CPU pump water leak detection connector
DOM1	USB 3.2 Gen 1 Type-A connector
JREAR1, JFUSB1	USB 3.2 port box headers
JVGA	Front VGA header
LAN1	GbE RJ45 Port (for mgmt.)
JFP1	Front panel connector
JTPM1	SPI TPM module box header
J95X8	95X8 I/O board header
JIPMB1	IPMB box header
JPSU1	PDB header
BP_I2C_1, PDB_I2C_1	I2C headers
JCOM1	COM port box header
JBTN1	Power button header
JRST1	Reset button header
JUID	UID button header
JCHASSIS1	Chassis intrusion header
BMC_HB_LED	BMC Heartbeat LED
SEG_LED1~4	Port 80 Debug LEDs

Name	Description
JRTC_CLR1	CMOS clear (default pin 1-2 normal)
JUID_SEL1	UID/ BMC reset button (default pin 1-2 UID button)
JSEL_BMC1	BMC selection (default pin 2-3 BMC1)
JSATA_NVME_SW1	JMCIO1~2 SATA/ NVMe signal setting(pin 1-2 SATA signal / pin 2-3 NVMe signal, default)

Memory

The server board supports RDIMM/ 3DS RDIMM, and DIMM speeds up to 4800MT/s.



ChannelQty. ofDDR5	L	K	J	I	H	G	C P U	A	B	C	D	E	F
12	V	V	V	V	V	V		V	V	V	V	V	V
10		V	V	V	V	V		V	V	V	V		
8		V		V	V	V		V	V	V		V	
6				V	V	V		V	V	V			
4				V		V		V			V		
2						V		V					
1								V					
“V” indicates DIMMs are populated with DDR5 .													

Key Parameters for DIMM Configuration

Parameter	Possible Values		
# of DIMMs Populated Per Channel	1DPC (1 DIMM per channel)		
DIMM Type	RDIMM, 3DS RDIMM		
DIMM Construction	RDIMM	1R (1 rank)	4800 MT/smemory speed supported
		2R (2 ranks)	
	3DS RDIMM	2S2R (4 ranks)	
		2S4R (8 ranks)	
		2S8R (16 ranks)	



Important

- There should be at least 1 DDR5 DIMM populated.
- Paired memory installation for Max performance.
- Populate the same DIMM type in each channel, specifically: 1. Use the same DIMM size; 2. Use the same number of ranks per DIMM.
- We don't suggest other memory installation.



Documents / Resources

	msi G4101 Global Server [pdf] User Guide G4101, G4101 Global Server, Global Server, Server
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References

- [User Manual](#)