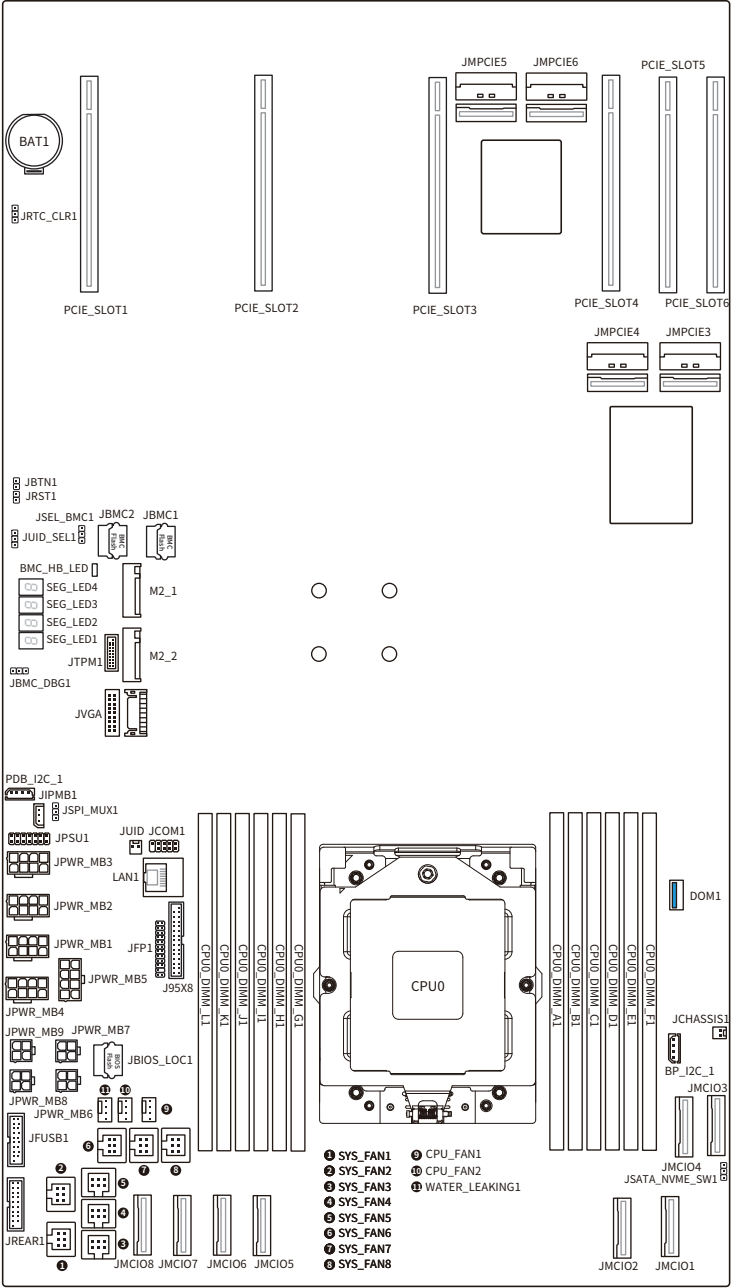


G4101

QUICK START GUIDE



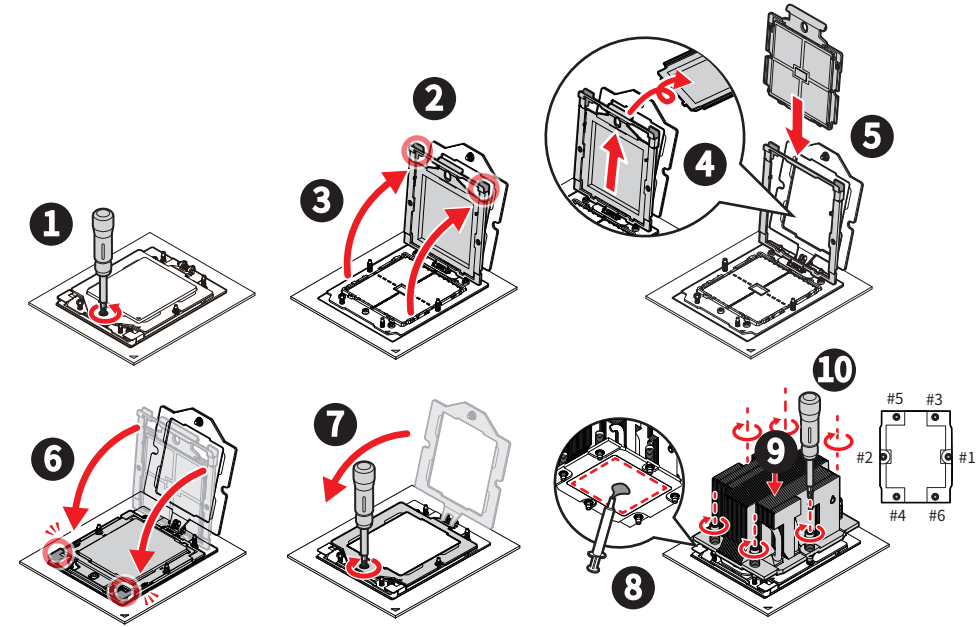
CPU

Single socket SP5, supports AMD EPYC™ 9004 and 9005 series processors

Front Panel Header

JFP1																							
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



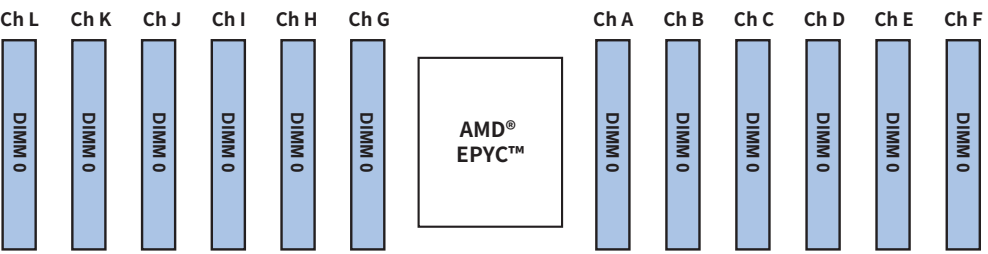
Connectors, Jumpers and LED Indicators

Name	Description
JPWR_MB1~4	8-pin 12V power connectors (for MB PWR)
JPWR_MB5	8-pin 12V power connector (for BP PWR)
JPWR_MB6, JPWR_MB8	4-pin 5V power connectors
JPWR_MB7, JPWR_MB9	4-pin 3V power connectors
JPWR_HDD1	8-pin HDD/SATA power connector (on PDB)
JMCIO1~8	MCIO 8i connectors
M2_1	M.2 slot (M Key, PCIe 3.0 x4, 22110/ 2280)
M2_2	M.2 slot (M Key, PCIe 3.0 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 signal)
SYS_FAN1~8	System/CPU fan connectors
CPU_FAN1~2	CPU pump connectors
WATER_LEAKING1	CPU pump water leak detection connector
DOM1	USB 3.2 Gen 1 Type-A port
JREAR1, JFUSB1	USB 3.2 Gen 1 headers
JVGA	Front VGA header
LAN1	GbE RJ45 Port (for mgmt.)
JFP1	Front panel connector
JTPM1	SPI TPM header
J95X8	95X8 I/O board header
JIPMB1	IPMB header
JPSU1	PDB header
BP_I2C_1, PDB_I2C_1	I2C headers
JCOM1	COM header
JBTN1	Power button header
JRST1	Reset button header
JUID	UID button header
JCHASSIS1	Chassis intrusion header
JRTC_CLR1	CMOS clear jumper (default pin 1-2, normal)
JUID_SEL1	UID/ BMC select jumper (default pin 1-2, UID button)

Name	Description
JSEL_BMC1	BMC select jumper (default pin 2-3, BMC1)
JSATA_NVME_SW1	JMCIO1~2 SATA/ NVMe signal select jumper (default pin 2-3, NVMe)
BMC_HB_LED	BMC heartbeat LED
SEG_LED1~4	Port 80 debug LEDs

Memory

The server board supports DDR5 RDIMMs and 3DS RDIMMs with memory speeds up to 6000 MT/s (1DPC).



Channel	L	K	J	I	H	G	C P U	A	B	C	D	E	F
Qty. of DDR5	L	K	J	I	H	G		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	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)	6000 MT/s memory 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.