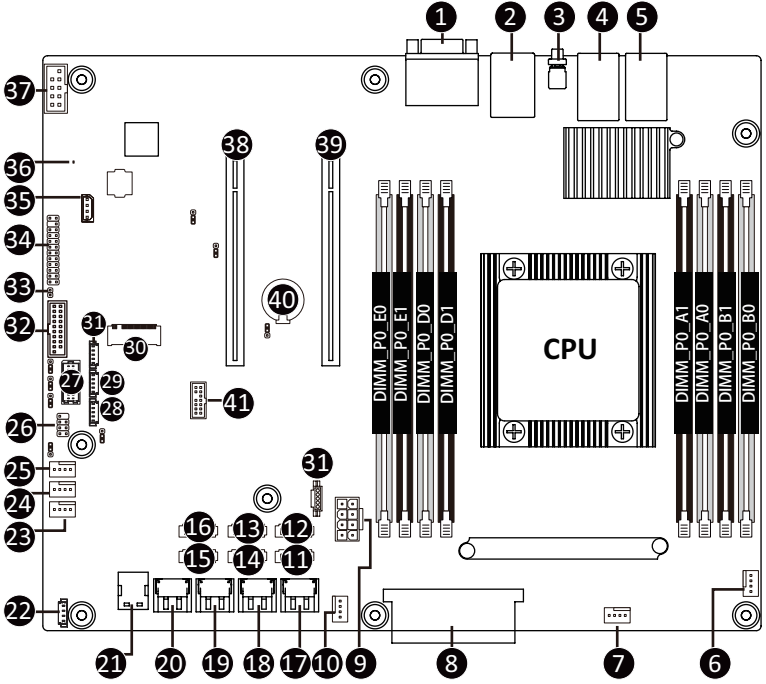


MB51-PS0 Quick Reference Guide/ 快速测试参考指南



No.	Code	Description
1	COM1_VGA	Serial port (top)/VGA port (bottom)
2	USB3_MLAN	Server management LAN port (top)/USB 3.0 ports (bottom)
3	SW_ID	ID button with LED
4	LAN1	10GbE LAN port #1
5	LAN2	10GbE LAN port #2
6	CPU_FAN	CPU fan connector
7	SYS_FAN4	System fan connector#4
8	ATX1	2 x12 pin system power connector

No.	Code	Description
9	P12V_AUX1	2 x 4 pin power connector (for CPU)
10	SYS_FAN5	System fan connector #5
11	SSATA5	sSATA 6Gb/s connector #5
12	SSATA4	sSATA 6Gb/s connector #4
13	SSATA2	sSATA 6Gb/s connector #2
14	SSATA3	sSATA 6Gb/s connector #3
15	SSATA1	sSATA 6Gb/s connector #1
16	SSATA0	sSATA 6Gb/s connector #0
17	SATA_6_7	SATA 6Gb/s connector #6/#7
18	SATA_4_5	SATA 6Gb/s connector #4/#5
19	SATA_2_3	SATA 6Gb/s connector #2/#3
20	SATA_0_1	SATA 6Gb/s connector #0/#1
21	U2_0	SlimSAS connector (SATA signal)
22	SW_RAID	VROC upgrade module connector
23	SYS_FAN3	System fan connector #3
24	SYS_FAN2	System fan connector #2
25	SYS_FAN1	System fan connector #1
26	SSATA_SGP4	sSATA SGPIO header #4
27	BP_1	HDD back plane board header
28	SSATA_SGP1	SATA SGPIO header #1
29	SSATA_SGP2	SATA SGPIO header #2
30	M2_MKEY	M.2 connector
31	SSATA_SGP3	SATA SGPIO header #3
32	F_USB3	USB 3.0 header
33	CASE_OPEN	Case open header
34	FP_1	Front panel header
35	IPMB	IPMB connector
36	LED_BMC	BMC firmware readiness LED
37	COM2	Serial port header
38	PCIE_4	PCIe x16 slot #4 (Gen3 x16)
39	PCIE_6	PCIe x16 slot #6 (Gen3 x16)
40	BAT	Battery socket
41	LPC_TPM	TPM module connector

Front Panel Header				
	No.	Pin Define	No.	Pin Define
	1	Power LED+	2	5V Standby
	3	No Pin	4	ID LED+
	5	Power LED-	6	ID LED-
	7	HDD LED+	8	System Status LED+
	9	HDD LED-	10	System Status LED-
	11	Power Button	12	LAN1 Active LED+
	13	GND	14	LAN1 Link LED-
	15	Reset Button	16	SMBus Data
	17	GND	18	SMBus Clock
	19	ID Button	20	Case Open
	21	GND	22	LAN2 Active LED+
	23	NMI Switch	24	LAN2 Link LED-

HDD Back Plane Board Header

1	2	No.	Pin Define	No.	Pin Define
		1	No Connect	2	Throttle
		3	Ground	4	FAN Gate
		5	BP SGLD	6	Ground
		7	BP SGCLK	8	Reset
		9	BP_ALED_N	10	BP LED RED
		11	IRQ_FAN_12V_GATE_N_BUF	12	No Connect
		13	SMB_BP_BMC_CLK	14	GND
		15	SMB_BP_BMC_DATA	16	RST_BP_BUF_N
		17	SMB_BP_NVME_CLK	18	Ground
		19	SMB_BP_NVME_DATA	20	BMC_RST_I2C_BP
		21	SMB_LVC3_CPU0_PE_HP_SCL	22	FAN Type
		23	SMB_LVC3_CPU0_PE_HP_SDA	24	Ground
		25	TP	26	Ground
		27	TP	28	Ground
		29	P_3V3_AUX	30	P_3V3_AUX

Rear I/O Connector/ 后面板接口

No.	Desription
1	10GbE Ethernet LAN port #2
2	10GbE Ethernet LAN port #1
3	ID button with LED
4	Server Management 10/100/1000 LAN port
5	USB 3.0 ports
6	Serial port
7	VGA port

Speed LED Link/Activity LED

10/100/1000 LAN LED:

State	Description
Yellow On	1Gbps data rate
Green On	100Mbps data rate
Off	10Mbps data rate

ID button/LED:

State	Description
Blue On	System identification is active.
Off	System identification is disabled.

10GbE LAN LED:

State	Description
Yellow On	10Gbps data rate
Green On	1Gbps data rate
Off	100Mbps data rate

ATX Power/ 电源			
No.	Pin Define	No.	Pin Define
1	3.3V	13	3.3V
2	3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	Power Good	20	-5V
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	3.3V	24	GND

CPU/System FAN/ 风扇		
No.	Pin Define	
1	GND	
2	+12V	
3	Sense	
4	Speed Control	

PMBUS		
No.	Pin Define	
1	PMBus Clock	
2	PMBus Data	
3	PMBus Alert	
4	GND	
5	3.3V Sense	

SATA Connector		
No.	Pin Define	
1	GND	
2	TXP	
3	TXN	
4	GND	
5	RXN	
6	RXP	
7	GND	
8	GND	
9	GND	

IPMB		
No.	Pin Define	
1	Clock	
2	Data	
3	GND	
4	VCC	

SATA SGPIO		
No.	Pin Define	
1	Data Out	
2	GND	
3	No Connect	
4	Load	
5	Clock	

NOTE!
PCB 1.0: Pin3: Load, Pin4: Load
PCB 1.1: Pin3: No Connect, Pin4: Load

BMC Firmware Readiness LED	
State	Description
On	BMC firmware is initial
Blink	BMC firmware is ready
Off	AC loss

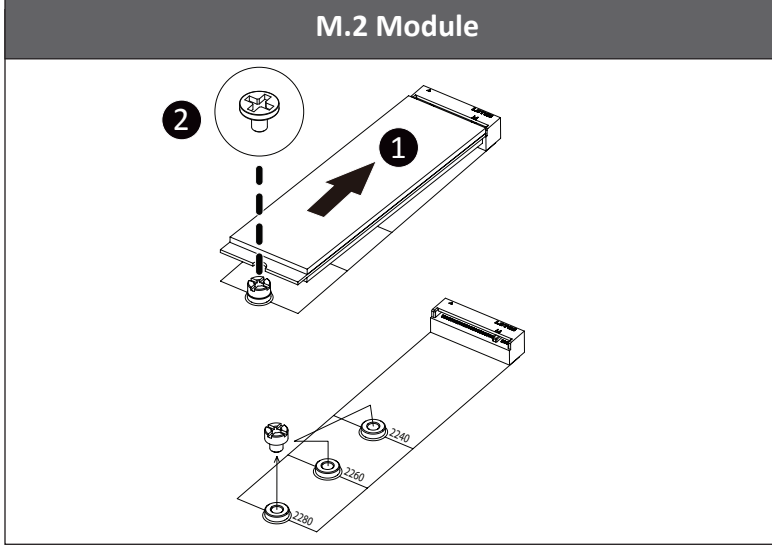
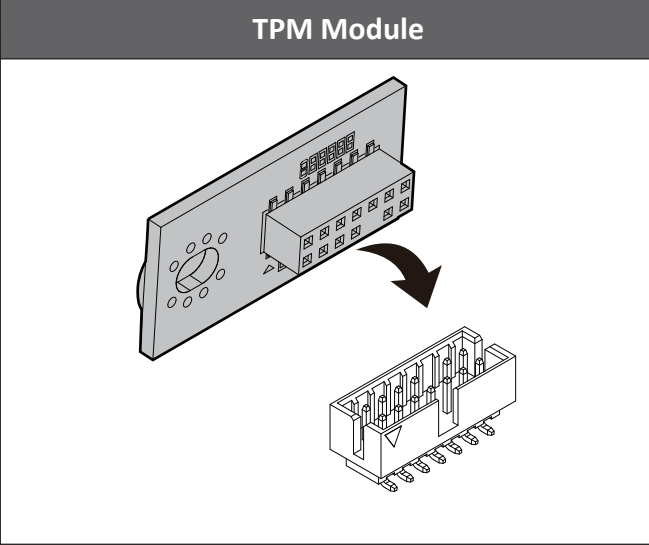
Memory Population Configuration/ 安装内存

Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V) Slot Per Channel (SPC) DIMM Per Channel (DPC)		
				1 Slot per Channel	2 Slot per Channel	
		4Gb DRAM	8Gb DRAM	1DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2666	2666	2666
	SRx8	4GB	8GB			
	DRx8	8GB	16GB			
	DRx4	16GB	32GB			
LRDIMM	QRx4	32GB	64GB			

USB 3.0 Header			
No.	Pin Define	No.	Pin Define
1	Power	11	IntA_P2_D+
2	IntA_P1_SSRX-	12	IntA_P2_D-
3	IntA_P1_SSRX+	13	GND
4	GND	14	IntA_P2_SSTX+
5	IntA_P1_SSTX-	15	IntA_P2_SSTX-
6	IntA_P1_SSTX+	16	GND
7	GND	17	IntA_P2_SSRX+
8	IntA_P1_D-	18	IntA_P2_SSRX-
9	IntA_P1_D+	19	Power
10	NC	20	No Pin

Serial Port Header		
No.	Pin Define	
1	ND CD-	
2	NSIN	
3	NSOUT	
4	NDTR-	
5	GND	
6	NDSR-	
7	NRTS-	
8	NCTS-	
9	NRI-	
10	No Pin	

TPM Connector/ 可信平台模块			
No.	Pin Define	No.	Pin Define
1	Clock_LPC0_TPM	2	P_3V3_AUX
3	LPC_Reset_N	4	P_3V3
5	LPC_LAD0_TPM	6	LPC_IRQ
7	LPC_LAD1_TPM	8	No Connect
9	LPC_LAD2_ESPI_IO2_TPM	10	No Pin
11	LPC_LAD3_ESPI_IO3_TPM	12	GND
13	LPC_LFRAME_N_TPM_N	14	GND



Jumper Settings/ 跳线设置

No.	Desription
1	Clear CMOS Jumper 1-2 Close: Normal operation (Default setting) 2-3 Close: Clear CMOS data.
2	ME Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: BIOS recovery mode.
3	BIOS Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: BIOS recovery mode.
4	ME Update Force Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Fore ME update.
5	S3 Power On Select Jumper 1-2 Close: Stop an initial power on when BMC is not ready. 2-3 Close: Keep initial power on. (Default setting)

