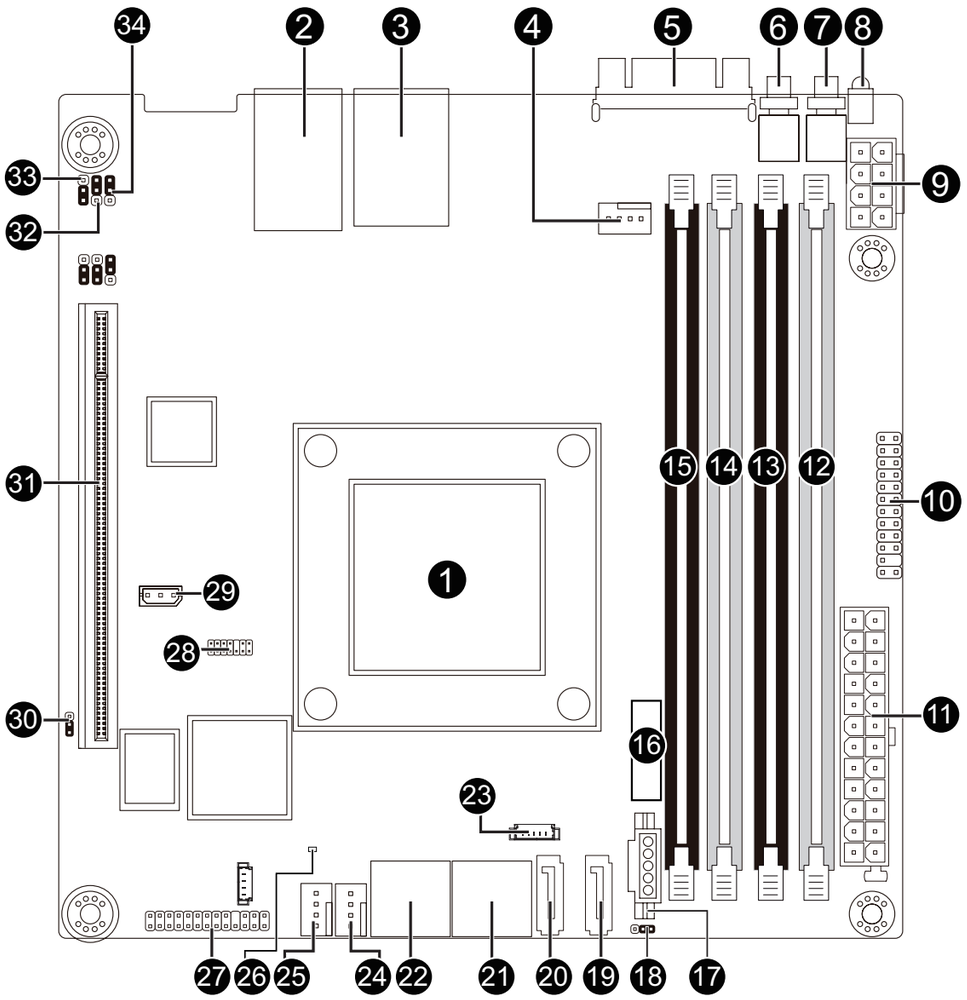
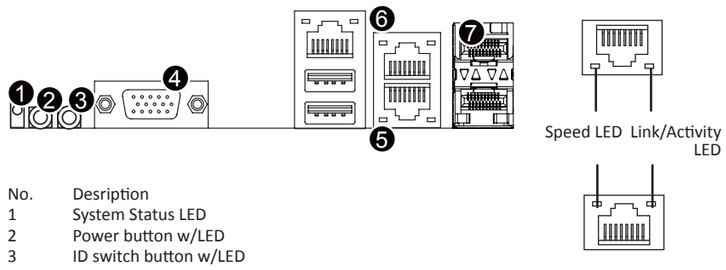
MB10-DS0/MB10-DS1 Quick Reference Guide/ 快速测试参考指南



No.	Code	Description
1	CPU	Intel Xeon® processor D-1541, FCBGA1667 SoC (MB10-DS0) Intel Xeon® processor D-1521, FCBGA1667 SoC (MB10-DS1)
2	LAN1_2	LAN ports
3	USB3_MLAN	BMC Management LAN port (top) / USB 3.0 ports (bottom)
4	CPU0_FAN	CPU fan connector
5	VGA	VGA port
6	SW_ID	ID switch button w/LED
7	SW_PWR	Power button w/LED
8	LED_STA	System Status LED
9	P12V_AUX2	8 pin power connector
10	FP_1	Front panel header
11	ATX1	24 pin main power connector
12	DIMM_P0_A0	Channel 1 slot 0
13	DIMM_P0_A1	Channel 2 slot 1
14	DIMM_P0_B0	Channel 3 slot 0
15	DIMM_P0_B1	Channel 4 slot 1
16	BAT1	Battery
17	PMBUS	PMBus connector
18	SATA_DOM0	SATA port 0 DOM support jumper

No.	Code	Description
19	SATA0	SATA 3 6Gb/s connector
20	SATA1	SATA 3 6Gb/s connector
21	SATA_2_3	SATA 3 6Gb/s connectors
22	SATA_4_5	SATA 3 6Gb/s connectors
23	SATA_SGPIO	SATA SGPIO header
24	SYS_FAN2	System fan connector#2
25	SYS_FAN1	System fan connector#1
26	LED_BMC1	BMC firmware readiness LED
27	BP_1	HDD back plane board header
28	TPM	TPM module connector
29	IPMB	IPMB connector
30	CLR_CMOS	Clear CMOS jumper
31	PCIE_1	PCI Express x16 slot
32	ME_UPDATE	ME update jumper
33	ME_RCVR	ME recovry jumper
34	S3_MASK	S3 Power On Select jumper

Rear I/O Connector/ 后面板接口



No.	Desription
1	System Status LED
2	Power button w/LED
3	ID switch button w/LED
4	VGA port
5	USB 3.0 ports
6	KVM Server Management 10/100/1000 LAN Port (Dedicated LAN Port)
7	LAN ports

Speed LED Link/Activity LED

❶ System Status LED:

State	Description
Green On	Normal operation
Amber On	Critical alert.
Off	System is not ready

❷ Power button/LED:

State	Description
Green On	System is powered on
Off	System is powered off

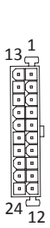
❼ 10/100/1000 LAN LED:

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

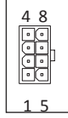
❸ ID switch button w/LED:

State	Description
Blue On	Unit selected for identification
Off	No identification

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



No.	Pin Define	No.	Pin Define
1	GND	5	+12V
2	GND	6	+12V
3	GND	7	+12V
4	GND	8	+12V

PMBUS

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

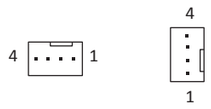
IPMB

No.	Pin Define
1	Clock
2	GND
3	Data

TPM Connector/ 可信平台模块

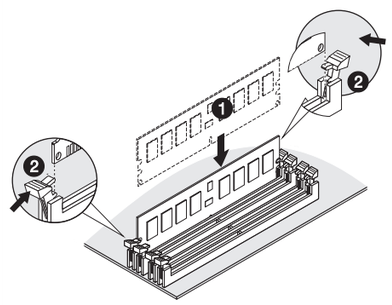
No.	Pin Define
1	CLK
2	P_3V3_AUX
3	LPC_RST
4	P3V3
5	LPC_LAD0
6	IRQ_SERIAL
7	LPC_LAD1
8	No Connect
9	LPC_LAD2
10	No Connect
11	LPC_LAD3
12	GND
13	LPC_FRAME_N
14	GND

CPU/System FAN/ 风扇



No.	Pin Define
1	GND
2	+12V
3	Sense
4	Speed Control

Memory Population Configuration/ 安装内存



Type	Ranks PerDIMM and Data Width	Speed (MT/s); Slot Per Channel (SPC) and DIMM Per Channel (DPC)		
		1 Slot Per Channel	2 Slot Per Channel	
		1DPC	1DPC	2DPC
RDIMM	SRx4 ECC	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*
RDIMM	SRx8 ECC	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*
RDIMM	DRx8 ECC	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*
RDIMM	DRx4 ECC	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*	1600, 1866, 2133, 2400*

- Note: DDR4 2400MHz is only available on Intel Xeon® D-1541 processor.
- When only one DIMM is used, it must be populated in memory slot0 first.
- System will not boot normally with incorrect populated sequence.
- 仅Intel Xeon® D-1541处理器支持DDR4-MHz内存。
- 只使用一个DIMM时，必须安装到内存插槽0。
- 若安装顺序有误，系统将不能正常引导。

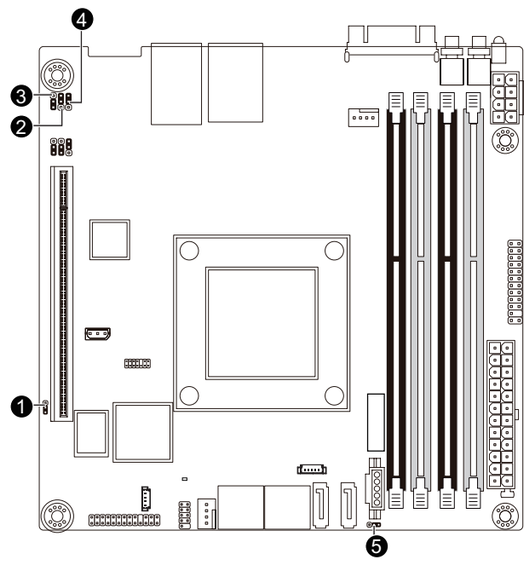
Front Panel Header/ 前面板

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 Switch+	20	Case Open
21	ID Switch-	22	LAN2 Active LED
23	NMI Switch-	24	LAN2 Link LED-

HDD Back Plane Board Header/ 硬盘背板排針

No.	Pin Define	No.	Pin Define
1	BP_SGP_CLK	2	No Connect
3	BP_SGP_GLD	4	FAN_SGP_GLD
5	BP_SGP_DOUT	6	GND
7	Key Pin	8	Reset
9	GND	10	BP_LED_A_N
11	BP_LED_G_N	12	GND
13	BP_SGP_DIN	14	No Connect
15	GND	16	SMB_BP_DATA
17	GND	18	SMB_BP_CLK
19	P_3V3_AUX	20	BMC_ACK
21	P_3V3_AUX	22	BMC_REQ
23	GND	24	Key Pin
25	BP_PRESENSE	26	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 Update Jumper 1-2 Close: ME update. 2-3 Close: Normal operation (Default setting)
3	ME Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: ME recovery mode.
4	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)
5	SATA Port 0 DOM Support Jumper Jumper 1-2 Close: Enable SATA port DOM support funtion. 2-3 Close: Normal Operation. (Default setting)

Pin No.	Definition
1	P5V
2	GND
3	NC

⚠ If a SATA type hard drive is connected to the motherboard, please ensure the jumper is closed and set to 2-3 pins (Default setting), in order to reduce any risk of hard disk damage.

SATA Connector/SATA 接口

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

SATA SGPIO Header/ 串行 GPIO

No.	Pin Define	No.	Pin Define
1	SDIN	4	SLOAD
2	GND	5	SCLK
3	SDOUT		

BMC F/W Readiness LED

BMC Firmware Readiness LED (LED_BMC1):

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

Serial Port Cable Connector/ 串行端口

No.	Pin Define
1	NDCD-
2	NSIN
3	NSOUT
4	NDTR-
5	GND
6	NDSR-
7	NRTS-
8	NCTS-
9	NRI-
10	No Pin

12QM1-MB10D0-00R

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- Do not disassemble, crush, punchture batteries.
- Do not store or place your battery pack next to or in a heat source such as a fire, heatgenerating appliance, can or exhaust vent. Heating battery cells to temperatures above 65oC (149oF) can cause explosion or fire.
- Do not attempt to open or service batteries. Do not dispose of batteries in a fire or with household waste.

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- 请勿拆解、挤压、刺破电池。
- 请勿将电池存放或放置在热源中或旁边，如火源、产生热的设备、罐体或排气口。电池温度升至65oC (149oF)以上可能导致爆炸或火灾。
- 请勿尝试打开或维修电池。电池废弃时，请勿投入火中或者作为家庭废弃物进行处理。

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(China RoHS Declaration)

产品中有毒有害物质或元素的名称及含量
Hazardous Substances Table

部件名称(Parts)	有毒有害物质或元素(Hazardous Substances)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
PCB板 PCB	○	○	○	○	○	○
结构件及风扇 Mechanical parts and Fan	×	○	○	○	○	○
芯片及其他主动零件 Chip and other Active components	×	○	○	○	○	○
连接器 Connectors	×	○	○	○	○	○
被动电子元器件 Passive Components	×	○	○	○	○	○
线材 Cables	○	○	○	○	○	○
焊接金属 Soldering metal	○	○	○	○	○	○
助焊剂，散热膏，标签及其他耗材 Flux,Solder Paste,Label and other Consumable Materials	○	○	○	○	○	○

○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。
Indicates that this hazardous substance contained in all homogenous materials of this part is below the limit requirement SJ/T 11363-2006

×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。
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