

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us at the Customer Care number listed in your product's user's manual and we will be glad to help you with your effort.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

限制使用有害物质 (RoHS) 指令声明

GIGABYTE产品未故意添加和使用有害物质（Cd、Pb、Hg、Cr+6、PBDE和PBB）。所有部件和元件均经过严格挑选，符合RoHS要求。此外，我们GIGABYTE一直致力于开发不使用国际上禁止的有毒化学品的产品。

California Proposition 65 Warning

WARNING:

This product contains a chemicals , including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please visit: <http://www.p65warnings.ca.gov/>



Battery Warning:

Incorrectly installing a battery or using incompatible battery may increase the risk of ifre explosion. Replace the battery only with the same or equivalent type.

- Do not disassemble, crush, puncture 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.



电池警告：

电池安装不当或使用不兼容的电池会增加火灾爆炸风险。更换电池时，只可使用相同或同等类型的电池。

- 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。

中华人民共和国电子信息产品中有毒有害物质或元素的名称及含量标识格式

依照中华人民共和国的有毒有害物质的限制要求(China RoHS)提供以下的表格：



关于符合中国《电子信息产品污染控制管理办法》的声明
Management Methods on Control of Pollution from Electronic Information Products
(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。 Indicates that this hazardous substance contained in at least one of the homogenous materials of this part is above the limit requirement in SJ/T 11363-2006						
对销售之日的所零售产品，本表显示我公司供应链的电子信息产品可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有列出的部件。 This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of the sale of the enclosed products. Note that some of the component types listed above may or may not be a part of the enclosed product.						

For more information, visit our website at:

<http://b2b.gigabyte.com>

You are a professional?

Get access to our complete source of sales & marketing materials at:

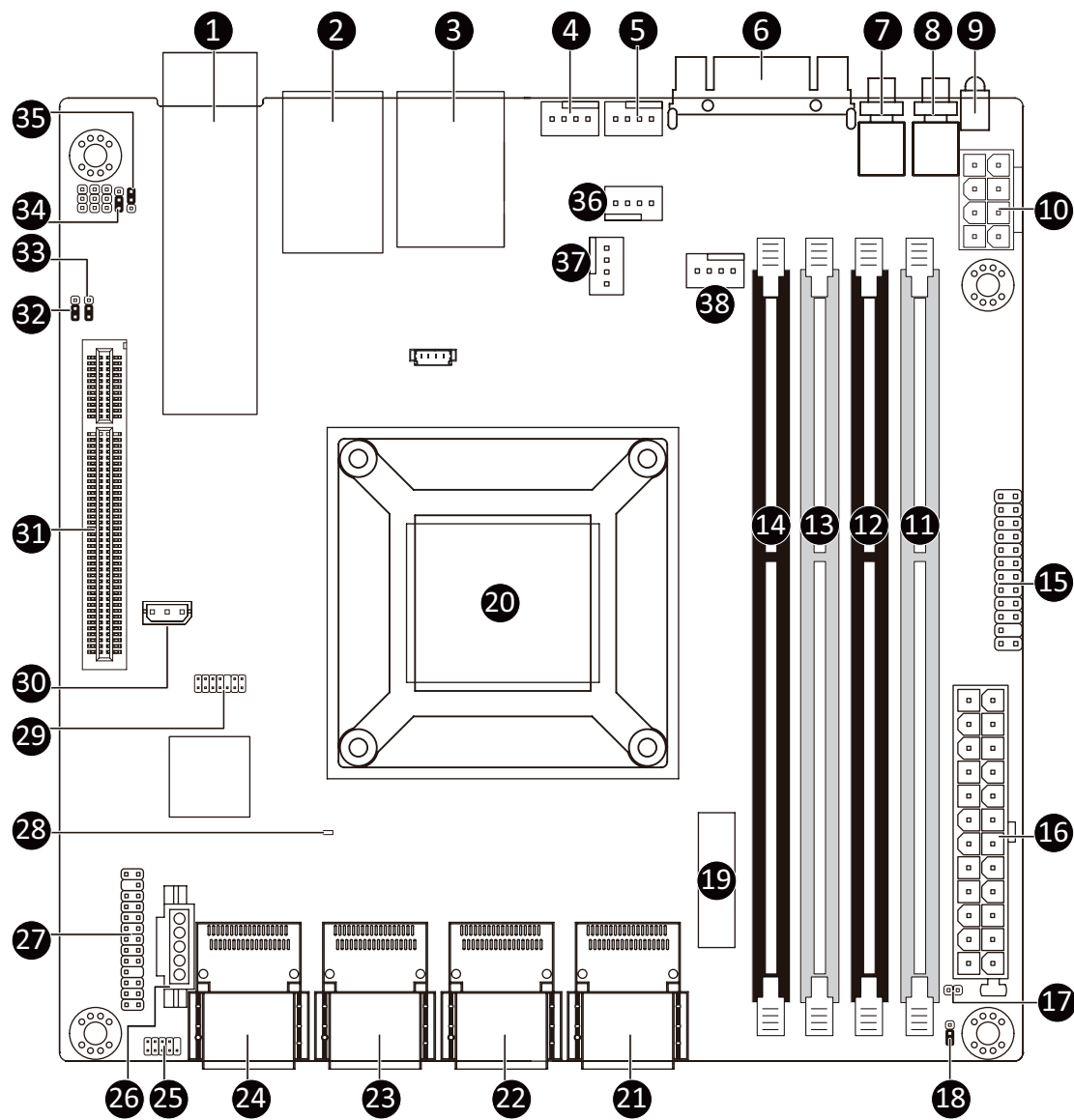
<http://reseller.b2b.gigabyte.com>

Join our server forum to discuss our products and get technical assistance at:

<https://www.facebook.com/gigabyteserver>



MA10-ST Series Quick Reference Guide/ 快速安装参考指南



No.	Code	Description	No.	Code	Description
1	SFP+1_2	SFP+ LAN connectors#1/#2 (Based on SoC)	21	MINI_CN1	Mini-SAS connector #1 (SATA3 6Gb/s signal)
2	LAN_2	GbE LAN ports	22	MINI_CN2	Mini-SAS connector #2 (SATA3 6Gb/s signal/Based on SoC)
3	USB_MLAN1	Serve management LAN port (top) / USB 2.0 ports (bottom)	23	MINI_CN3	Mini-SAS connector #3 (SATA3 6Gb/s signal)
4	SYS_FAN1	System fan connector #1	24	MINI_CN4	Mini-SAS connector #4 (SATA3 6Gb/s signal/Based on SoC)
5	SYS_FAN4	System fan connector #4	25	COM1	Serial port cable connector
6	VGA_1	VGA port	26	PMBUS	PMBus connector
7	SW_ID	ID switch button w/LED	27	BP_1	HDD back plane board header
8	SW_PWR	Power button w/LED	28	LED_BMC1	BMC firmware readiness LED
9	LED_STA	System Status LED	29	TPM	TPM module connector
10	P12V_AUX2	8 pin power connector	30	IPMB	IPMB connector
11	DIMM_PO_B0	Channel 3 slot 0	31	PCIE_1	PCI Express x8 slot
12	DIMM_PO_B1	Channel 4 slot 1	32	BIOS_PWD	Clearing Supervisor Password jumper
13	DIMM_PO_A0	Channel 1 slot 0	33	BIOS_RCVR	BIOS recovery jumper
14	DIMM_PO_A1	Channel 2 slot 1	34	ME_RCVR	ME recovery jumper
15	FP_1	Front panel header	35	S3_MASK	S3 Power On Select jumper
16	ATX1	24 pin main power connector	36	SYS_FAN2	System fan connector #2
17	CASEOPEN	Case intrusion alert header	37	SYS_FAN3	System fan connector #3
18	CLR_CMOS	Clear CMOS jumper	38	CPU_FAN	CPU fan connector
19	BAT1	Battery socket			
20	CPU	Intel® Atom™ C3000 Series SoC			

Rear I/O Connector/ 后面板接口

No.	Description
1	System Status LED
2	Power button w/LED
3	ID switch button w/LED
4	VGA port
5	KVM Server Management 10/100/1000 LAN Port (Dedicated LAN Port)
6	USB 2.0 ports
7	GbE LAN port (Share NIC)
8	GbE LAN port
9	SFP+ LAN ports

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

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

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

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	No.	Pin Define
1	CLK	13	GND
2	P_3V3_AUX	14	GND
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 1DPC	2 Slot Per Channel 1DPC	2 Slot Per Channel 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*

- When only one DIMM is used, it must be populated in memory DIMM_PO_A0 slot first.
- System will not boot normally with incorrect populated sequence.
- 只使用一个DIMM时，必须先安装到内存DIMM_PO_A0插槽。
- 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/ 硬盘背板排针

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.	Description
1	Clearing Supervisor Password Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Skip supervisor password.
2	BIOS Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: BIOS recovery mode.
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	Clear CMOS Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Clear CMOS data.

Mini SAS Connector/Mini SAS 接口

No.	Pin Define	No.	Pin Define
A1	GND	B1	GND
A2	SATA6G PORT0 RXP	B2	SATA6G PORT0 TXP
A3	SATA6G PORT0 RXN	B3	SATA6G PORT0 TXN
A4	GND	B4	GND
A5	SATA6G PORT1 RXP	B5	SATA6G PORT1 TXP
A6	SATA6G PORT1 RXN	B6	SATA6G PORT1 TXN
A7	GND	B7	GND
A8	No Connect	B8	No Connect
A9	No Connect	B9	No Connect
A10	No Connect	B10	No Connect
A11	No Connect	B11	No Connect
A12	GND	B12	GND
A13	SATA6G PORT2 RXP	B13	SATA6G PORT2 TXP
A14	SATA6G PORT2 RXN	B14	SATA6G PORT2 TXN
A15	GND	B15	GND
A16	SATA6G PORT3 RXP	B16	SATA6G PORT3 TXP
A17	SATA6G PORT3 RXN	B17	SATA6G PORT3 TXN
A18	GND	B18	GND

BMC F/W Readiness LED

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