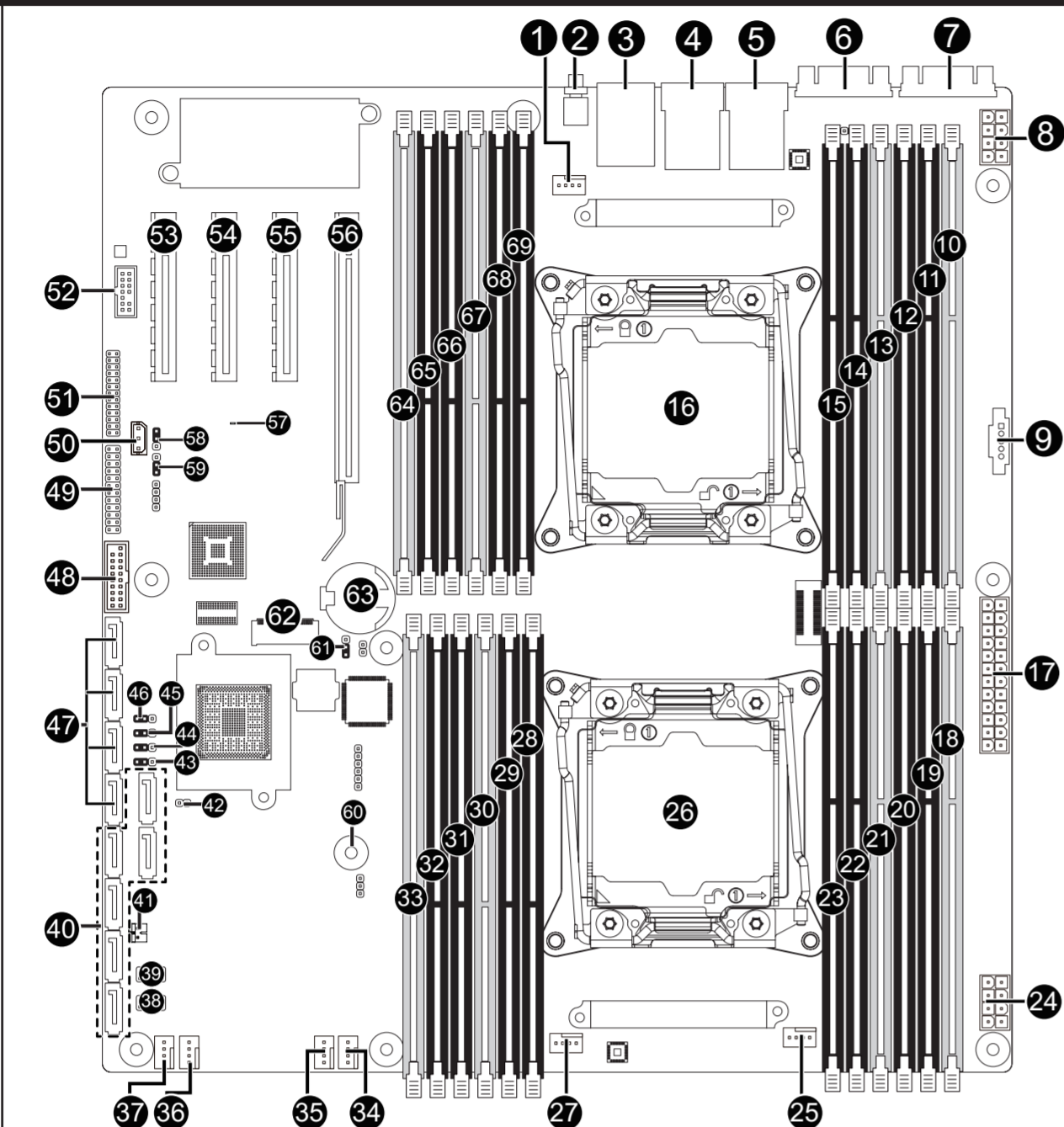


# MD80-TM1 Quick Reference Guide/ 快速测试参考指南



No.	Code	Description
1	CPU1_FAN	CPU1 fan connector (for Secondary CPU)
2	SW_ID	ID switch button
3	USB3_MLAN	BMC Management LAN port (top) / USB 3.0 ports (bottom)
4	LAN1	LAN port #1
5	LAN2	LAN port #2
6	VGA	VGA port
7	COM1	Serial port
8	P12V_AUX2	8 pin power connector (for secondary CPU)
9	PMBUS	PMBus connector
10	DIMM_P1_G0	Channel 3 slot 0 (for secondary CPU)
11	DIMM_P1_G1	Channel 3 slot 1 (for secondary CPU)
12	DIMM_P1_G2	Channel 3 slot 2 (for secondary CPU)
13	DIMM_P1_H0	Channel 4 slot 0 (for secondary CPU)
14	DIMM_P1_H1	Channel 4 slot 1 (for secondary CPU)
15	DIMM_P1_H2	Channel 4 slot 2 (for secondary CPU)
16	CPU1	Intel LGA2011 Socket R (Secondary CPU)
17	ATX1	24 pin main power connector
18	DIMM_P0_A0	Channel 1 slot 0 (for primary CPU)
19	DIMM_P0_A1	Channel 1 slot 1 (for primary CPU)
20	DIMM_P0_A2	Channel 1 slot 2 (for primary CPU)
21	DIMM_P0_B0	Channel 2 slot 0 (for primary CPU)
22	DIMM_P0_B1	Channel 2 slot 1 (for primary CPU)
23	DIMM_P0_B2	Channel 2 slot 2 (for primary CPU)
24	P12V_AUX1	8 pin power connector (for primary CPU)
25	SYS_FAN5	System fan connector#5
26	CPU0	Intel LGA2011 Socket R (Primary CPU)
27	CPU0_FAN	CPU0 fan connector (for Primary CPU)
28	DIMM_P0_D2	Channel 4 slot 2 (for primary CPU)
29	DIMM_P0_D1	Channel 4 slot 1 (for primary CPU)
30	DIMM_P0_D0	Channel 4 slot 0 (for primary CPU)
31	DIMM_P0_C2	Channel 3 slot 2 (for primary CPU)
32	DIMM_P0_C1	Channel 3 slot 1 (for primary CPU)
33	DIMM_P0_C0	Channel 3 slot 0 (for primary CPU)
34	SYS_FAN4	System fan connector#4
35	SYS_FAN3	System fan connector#3

No.	Code	Description
36	SYS_FAN2	System fan connector#2
37	SYS_FAN1	System fan connector#1
38	SSATA_SGP	sSATA SGPIO header
39	SATA_SGP	SATA SGPIO header
40	SATA0/1/2/3/4/5	SATA 3 6Gb/s connectors
41	SW_RAID	Intel Software RAID Key jumper
42	CASE_OPEN	Case open intrusion alert header
43	ME_UPDATE	ME update jumper
44	ME_RCVR	ME recovery jumper
45	BIOS_PWDR	Clearing Supervisor Password jumper
46	BIOS_RCVR	BIOS recovery jumper
47	SSATA0/1/2/3	SATA 3 6Gb/s connectors
48	F_USB3	USB 3.0 header
49	FP_1	Front panel header
50	IPMB	IPMB connector
51	BP_1	HDD back plane board header
52	TPM	TPM module connector
53	PCIE_1	PCI Express x8 slot
54	PCIE_2	PCI Express x8 slot
55	PCIE_3	PCI Express x8 slot
56	PCIE_4	PCI Express x16 slot
57	LED_BMC	BMC firmware readiness LED
58	BMC_FRB	Force to Stop FRB Timer jumper
59	S3_MASK	S3 Power On Select jumper
60	BUZZER1	Buzzer
61	CLR_CMOS	Clear CMOS jumper
62	M2_SK	M.2 slot
63	BAT	Battery socket
64	DIMM_P1_E0	Channel 4 slot 0 (for secondary CPU)
65	DIMM_P1_E1	Channel 4 slot 1 (for secondary CPU)
66	DIMM_P1_E2	Channel 4 slot 2 (for secondary CPU)
67	DIMM_P1_F0	Channel 3 slot 0 (for secondary CPU)
68	DIMM_P1_F1	Channel 3 slot 1 (for secondary CPU)
69	DIMM_P1_F2	Channel 3 slot 2 (for secondary CPU)

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

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

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

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

Front Panel Header/ 前面板				
1	No.	Pin Define	No.	Pin Define
1	1	Power LED+	2	5V Standby
2	2	No Pin	4	ID LED+
3	3	Power LED-	6	ID LED-
4	4	HDD LED+	8	System Status LED (Green)
5	5	HDD LED-	10	System Status LED (Amber)
6	6	Power Button	12	LAN1 Active LED+
7	7	Reset Button+	14	LAN1 Link LED-
8	8	GND	16	SMBus Data
9	9	GND	18	SMBus Clock
10	10	ID Switch+	20	Case Open
11	11	ID Switch-	22	LAN2 Active LED
12	12	NMI Switch-	24	LAN2 Link LED-

HDD Back Plane Board Header/ 硬盘背板排针				
1	No.	Pin Define	No.	Pin Define
1	1	BP_SGP_CLK	2	No Connect
2	2	BP_SGP_GLD	4	FAN_SGP_GLD
3	3	BP_SGP_DOUT	6	GND
4	4	Key Pin	7	Reset
5	5	GND	8	BP_LED_A_N
6	6	BP_LED_G_N	10	GND
7	7	BP_SGP_DIN	12	No Connect
8	8	GND	16	SMB_BP_DATA
9	9	GND	18	SMB_BP_CLK
10	10	P_3V3_AUX	20	BMC_ACK
11	11	P_3V3_AUX	22	BMC_REQ
12	12	GND	24	Key Pin
13	13	BP_PRESENSE	26	GND

### Rear I/O Connector/ 后面板接口

4 10/100/1000 LAN LED:	
State	Description
Yellow On	1Gbps data arte
Green On	100Mbps data arte
Off	10Mbps data arte

6 Power button/LED:	
State	Description
Green On	System is powered on
Off	System is powered off

No.	Description
1	Serial port
2	Video port
3	GbE Ethernet LAN ports
4	KVM Server Management 10/100/1000 LAN Port (Dedicated LAN Port)
5	USB 3.0 ports
6	Power button/LED

### Installing CPU/ 安装处理器

### Memory Population Configuration/ 安装内存

Type	Ranks Per DIMM and Data Width	Speed (MT/s):		
		Slot Per Channel (SPC) and DIMM Per Channel (DPC)		2 Slot Per Channel
		1DPC	1DPC	
RDIMM	SRx4	2133	2133	1866
RDIMM	SRx8	2133	2133	1866
RDIMM	DRx8	2133	2133	1866
RDIMM	DRx4	2133	2133	1866
LRDIMM	QRx4	2133	2133	2133

- When only one DIMM is used, it must be populated in memory slot0 first.
- Memory populated sequence must be followed with slot0/slot1/slot2
- System will not boot normally with incorrect populated sequence.
- 只使用一个DIMM时，必须安装到内存插槽0。
- 内存安装顺序必须是插槽0/插槽1/插槽2。
- 若安装顺序有误，系统将无法正常开机。

SATA Connector/SATA 接口				
7	No.	Pin Define	No.	Pin Define
1	1	GND	2	TXP
2	2	TXN	3	GND
3	3	GND	4	RXP
4	4	RXP	5	GND
5	5	GND	6	GND
6	6	GND	7	GND

TPM Connector/ 可信平台模块				
1	No.	Pin Define	No.	Pin Define
1	1	CLK_33M_TPM_CONN	2	P_3V3_AUX
2	2	LPC_RST	3	P3V3
3	3	LPC_LADD	4	LPC_LAD0
4	4	IRQ_SERIAL	5	LPC_LAD1
5	5	LPC_LAD2	6	No Connect
6	6	LPC_LAD3	7	NC
7	7	LPC_FRAME_N	8	LPC_LAD2
8	8	GND	9	LPC_LAD3
9	9	GND	10	GND
10	10	GND	11	LPC_FRAME_N
11	11	GND	12	GND
12	12	GND	13	GND
13	13	GND	14	GND

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

SATA/sSATA SGPIO Header/ 串行 GPIO				
8	No.	Pin Define	No.	Pin Define
1	1	Data In	2	No Pin
2	2	Data Out	3	GND
3	3	GND	4	Load
4	4	Load	5	No Connect
5	5	No Connect	6	Load
6	6	Load	7	No Connect
7	7	No Connect	8	Load
8	8	Load		

BMC Firmware Readiness LED			
BMC Firmware Readiness LED (LED_BMC):			
State	Description	State	Description
On	BMC firmware is initial	On	BMC firmware is ready
Blink	BMC firmware is ready	Off	AC loss
Off	AC loss		

Intel RAID Header				
Intel RAID Key Header (SW_RAID):				
2	No.	Pin Define	No.	Pin Define
1	1	Key Pin	2	GND

### Jumper Settings/ 跳线设置

No.	Description	No.	Description
1	Clear CMOS Jumper 1-2 Close: Normal operation (Default setting) 2-3 Close: Clear CMOS data.	6	ME Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: ME recovery mode.
2	Force to Stop FRB Timer Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Force to Stop FRB Timer.	7	ME Update Jumper 1-2 Close: Normal operation (Default setting) 2-3 Close: ME update.
3	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)		
4	BIOS Recovery Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: BIOS recovery mode.		
5	Clearing Supervisor Password Jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Skip supervisor password.		

## Regulatory Notices

### 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 fire 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产品信息可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有所列的部件。  
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.