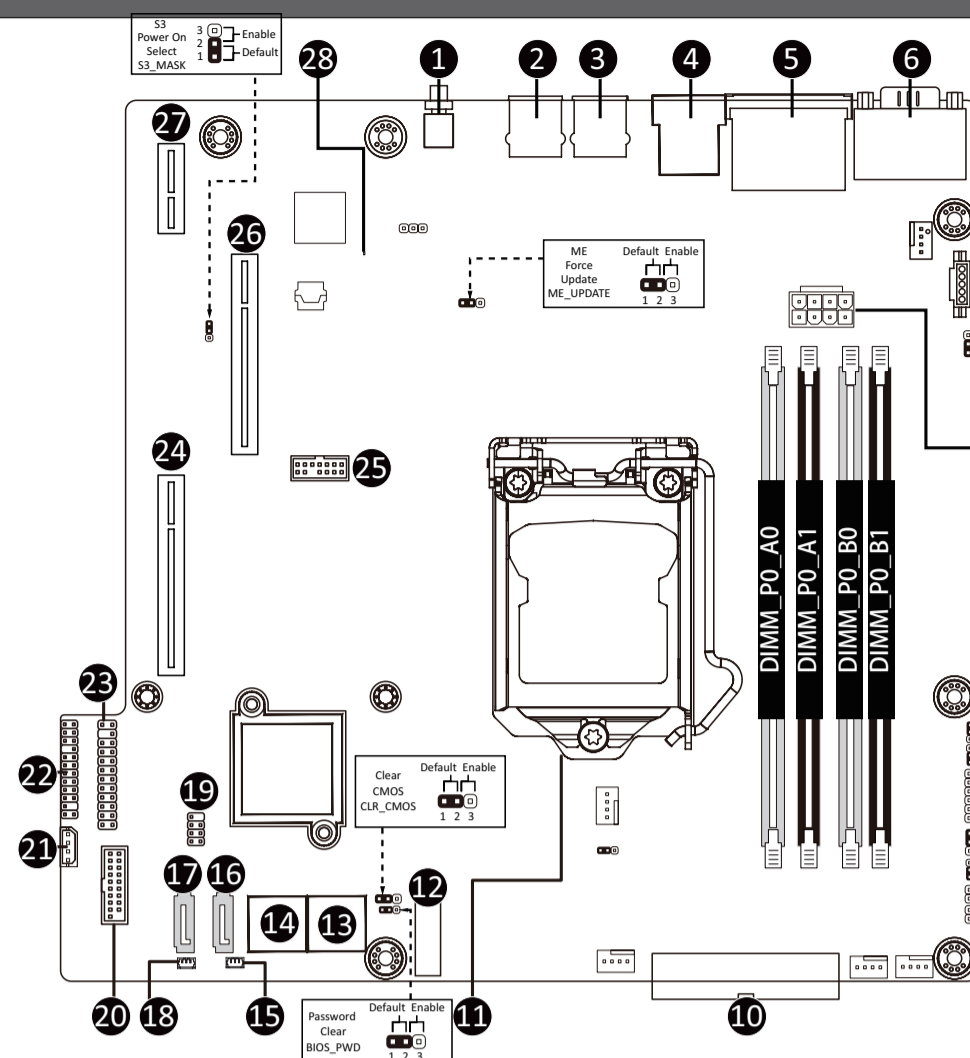


R121-340 Quick Installation Guide/ 快速安装手册

Motherboard Components



No.	Code	Description
1	SW_ID	ID button with LED
2	USB3_1	USB 3.0 port #1
3	USB3_2	USB 3.0 port #2
4	MLAN	Server management LAN port
5	LAN1_2	GbE LAN port #1 /#2
6	COM1_VGA	Serial port (top) / VGA port (bottom)
7	PMBUS	PMBus connector
8	P2	2x4 pin power connector (for CPU)
9	CASE_OPEN	Case open intrusion alert header
10	P1	2x12 pin main power connector
11	CPU0	Intel LGA1151 Socket H4
12	BAT	Battery socket
13	SATA_0_1	SATA 3 6Gb/s connectors
14	SATA_2_3	SATA 3 6Gb/s connectors
15	SATA_DOM1	SATA port 4 DOM power connector
16	SATA4	SATA 3 6Gb/s connectors (Supports SATA DOM)
17	SATA5	SATA 3 6Gb/s connectors (Supports SATA DOM)
18	SATA_DOM2	SATA port 5 DOM power connector
19	SATA_SGP1	SATA SGPIO header
20	F_USB3_1	USB 3.0 header
21	IPMB	IPMB connector
22	BP_1	HDD back plane board header
23	FP_1	Front panel header
24	RISER_1_2	PCIe riser slot (for Gigabyte CRS1022 Only)
25	TPM	TPM connector
26	PCI_E_2	PCIe x8 slot
27	RISER_1_1	PCIe riser slot (for Gigabyte CRS1022 Only)
28	LED_BMC1	BMC firmware readiness LED

Front Panel Header			
No.	Pin Define	No.	Pin Define
1 2	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
23 24	ID Switch+	20	Case Open
21	ID Switch-	22	LAN2 Active LED+
23	NMI Switch-	24	LAN2 Link LED-

HDD Back Plane Board Header			
No.	Pin Define	No.	Pin Define
1 2	BP_SGP_CLK	2	No Connect
3	BP_SGP_LOAD	4	FAN_SGP_Gate
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

System Cover

CAUTION!
Before you remove or install the system cover, make sure the system is not turned on or connected to AC power.

注意!
在卸下或安装系统机盖之前, 请注意下列事项:
确保系统未开启且未连接到交流电源。

System Components

No.	Description
1	HDD bays
2	Front panel buttons and LEDs
3	System fan #3 (FAN3)
4	System fan #5 (FAN5)
5	System fan #7 (FAN7)
6	Fan duct
7	Memory slots
8	Power supply module
9	PCIe riser bracket
10	PCIe riser bracket

Fan Duct

Heat Sink

WARNING!
Please make sure the CPU heat sink installation orientation. Failure to observe the warning could result in damage to the equipment.

System Fan

CAUTION!
Before you remove or install the system fan, make sure the system is not turned on or connected to the AC power. Disconnect all necessary cable connections. Failure to observe these warnings could result in personal injury or damage to the equipment.

注意!
确保系统未开机且未连接到交流电源。断开所有必要的线缆连接。若不遵循这些警告, 可能造成人员伤亡或设备损坏。

Memory Population Configuration

Type	Ranks Per DIMM and Data Width	Supported Voltage	Speed (MT/s); Slot Per Channel (SPC) and DIMM Per Channel (DPC)	
			1DPC	2DPC
UDIMM Unbuffered DDR4 ECC	SR	1.2V	2133	2133
UDIMM Unbuffered DDR4 non-ECC	DR	1.2V	2133	2133

- All channels in system run at the fastest common frequency.
- Mixing ECC and non-ECC UDIMMs anywhere on the platform is not supported.
- 1 and 2 DPC is supported at 2133MHz.
- 所有通道均以最快的频率运行。
- 此主板不支持ECC与非ECC内存混用。
- 1与2 DPC均支持2133MHz速度。

Hard Disk Drive and Back Plane Board

HDD Backplane Board Components

No.	Description	No.	Description
1	HDD#3	12	Fan connector#10
2	HDD#2	13	Fan connector#7
3	HDD#1	14	Fan connector#8
4	HDD#0	15	Fan connector#5
5	SGPIO header	16	Fan connector#6
6	Fan connector#13	17	Fan connector#3
7	Fan connector#14	18	Fan connector#4
8	Fan connector#11	19	Fan connector#1
9	Fan connector#12	20	Fan connector#2
10	ODD power connector	21	Fan connector#15
11	Fan connector#9	22	Fan connector#16

Power Supply

CAUTION!
Before you remove or install the power supplies, make sure the system is not turned on or connected to AC power.

注意!
在替换或安装电源前, 请注意下列事项:
确保系统未开启且未连接到交流电源。

Front & Rear

Power button/LED:

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

Speed LED Link/Activity LED:

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

PCI Express Card

CAUTION!
Before you remove or install the PCI express card, make sure the system is not turned on or connected to AC power.

注意!
在安装扩展卡前, 请注意下列事项:
确保系统未开启且未连接到交流电源。

Front Panel LED and Buttons

No.	Name	Color	Status	Description	编号	名称	颜色	状态	说明
1	Power Button and LED	Green	Solid On	System is powered on.	1	电源按钮和LED	绿色	恒亮	系统处于开机状态。
		Green	Blink	System is in ACPI S1 state (sleep mode).			绿色	闪烁	系统处于ACPI S1状态(睡眠模式)。
		--	--	System is not powered on or in ACPI S5 state (power off). System is in ACPI S4 state (hibernate mode).			--	--	系统未开机或处于ACPI S5状态(关机状态)。系统处于ACPI S4状态(休眠模式)。
2	ID Button	--	--	Press the button to activate system identification.	2	ID按钮	--	--	按下按钮启动系统识别功能。
3	System Status LED	Green	Solid On	System is operating normally.	3	系统状态LED	绿色	恒亮	系统正常运行。
		Amber	Solid On	Critical condition, may indicate: Power module failure, System fan failure, Power supply voltage issue, System temperature.			橙色	恒亮	严重情形, 可能为下列状况: 电源模块故障, 系统风扇故障, 电源电压问题, 系统温度/电压问题。
		Amber	Blink	Non-critical condition, may indicate: Redundant power module failure, Temperature and voltage issue, Chassis intrusion.			橙色	闪烁	非严重情形, 可能为下列状况: 冗余电源模块故障, 系统温度/电压问题, 机箱侵入。
		--	--	System is not ready, may indicate: POST error, NMI error, Processor or terminator missing.			--	--	系统未正常运行, 可能为下列状况: POST错误, NMI错误, 处理器或终结器缺失。
4	HDD Status LED	Green	On	HDD locate	4	硬盘驱动器LED	绿色	亮	硬盘驱动器定位
		Green	Blink	HDD access			绿色	闪烁	硬盘驱动器访问
		Amber	On	HDD fault			橙色	亮	硬盘驱动器故障
		Green/Amber	Blink	HDD rebuild			绿色/橙色	闪烁	硬盘重建
		--	--	No HDD access or no HDD fault.			--	--	无硬盘驱动器访问
5	LAN1/2 Active/Link LEDs	Green	Solid On	Link between system and network or no access.	5	LAN1/LAN2活动LED	绿色	恒亮	系统和网络之间的链接
		Green	Blink	Data transmission or receiving is occurring.			绿色	闪烁	网络访问
		--	--	No data transmission or receiving is occurring.			--	--	断开连接/待机
6	Reset Button	--	--	Press the button to reset the system.	6	复位按钮	--	--	按下按钮启动系统。

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, car 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						
对销售之日的所发售产品，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.						

Ambient Operation

This equipment should not be operated above an ambient operation temperature of 35 degrees centigrade.

Restricted Access Location

This server is intended for installation only in restricted access locations where .

- Access can only be gained by SERVICE PERSONS who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.
- Access is through the use of a TOOL or lock and key, or other means of security, and is controlled by the authority responsible for the location.



The system may have more than one power supply cable. To reduce the risk of electrical shock, a trained service technician may need to disconnect all power supply cables before servicing the system.

Power Supply

CAUTION: The power supplies in your system may produce high voltages and energy hazards, which can cause bodily harms. Unless you are instructed otherwise, only trained service technicians are authorized to remove the covers and access any of the components inside the system.

Reliable Earthing:

CAUTION: Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this server during an electrical storm
CAUTION: Connect all power cords to a properly wired and grounded electrical outlet.

Hazardous FAN

CAUTION: This server contains hazardous moving fan blades, keep fingers and other bodyparts away.
Disconnect all power supply cords before servicing. Connect power supply cord only after all the covers are properly installed.

Hazardous Energy



CAUTION: This server contains hazardous energy over 240VA on the backplane. To prevent accidental short circuit, always insert the HDD trays after servicing.

Rack Mount Instructions

The following or similar rack-mount instructions are included with the installation instructions:

- Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."

Disconnect 2 power supply cords before servicing



CAUTION: Slider/rail mounted equipment is not to be used as a shelf or a work space.

FCC Statement

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 (A)/NMB-3(A)



CAUTION: Whenever you need to lift the system, get others to assist you.
To avoid injury, do not attempt to lift the system by yourself.

Connect With Us

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>



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