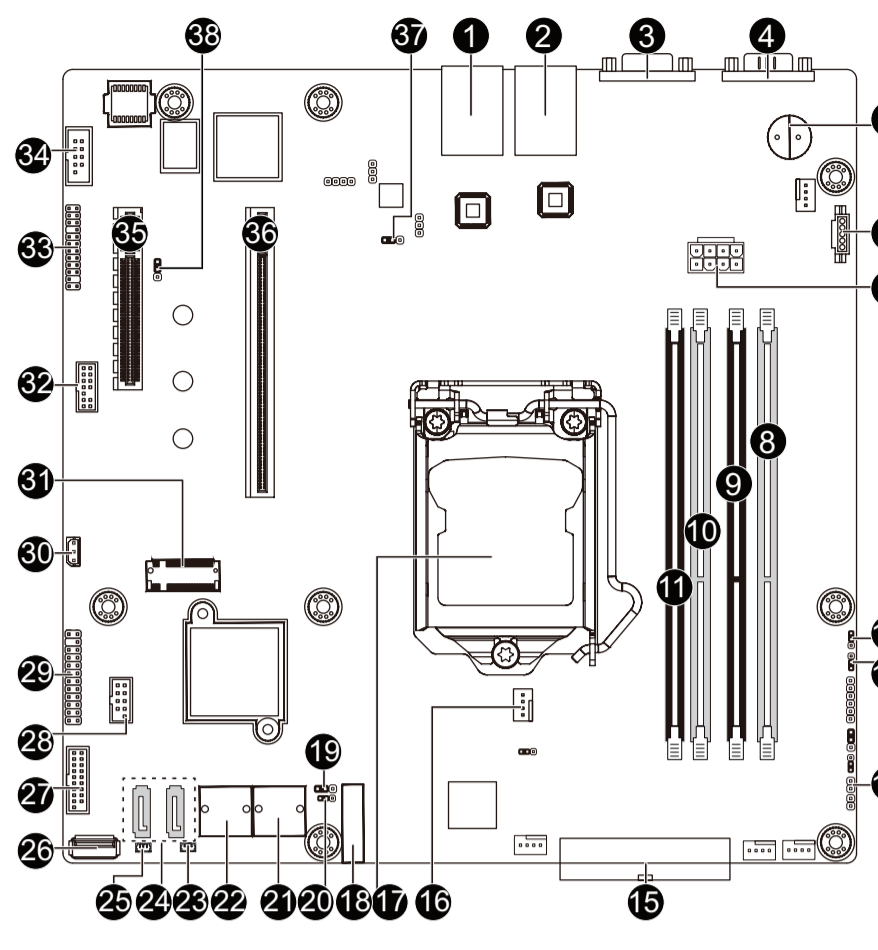


R121-X30 Quick Installation Guide/R121-X30 快速安装手册

Motherboard Components



No.	Code	Description
1	USB3_LAN1	LAN port #1 (top/server management LAN port) / USB 3.0 ports (bottom)
2	USB2_LAN2	LAN port #2 (top) / USB 2.0 ports (bottom)
3	VGA	VGA port
4	COM1	Serial port
5	BUZZER	Buzzer
6	PMBUS	PMBus connector
7	P2	8 pin power connector (for CPU)
8	DIMM_PO_B1	Channel 2 slot 1
9	DIMM_PO_B0	Channel 2 slot 0
10	DIMM_PO_A1	Channel 1 slot 1
11	DIMM_PO_A0	Channel 1 slot 0
12	BIOS_RCVR	BIOS recovery jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: BIOS recovery mode.
13	ME_RCVR	ME recovery jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: ME recovery mode.
14	CASE_OPEN	Case open intrusion alert header
15	P1	24 pin main power connector
16	CPU0_FAN	CPU fan connector
17	CPU0	Intel LGA1151 Socket H4
18	BAT	Battery socket
19	CLR_CMOS	Clear CMOS jumper
20	BIOS_PWD	Clearing Supervisor Password jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: Skip supervisor password.
21	SATA_0_1	SATA 3 6Gb/s connectors
22	SATA_2_3	SATA 3 6Gb/s connectors
23	SATA_DOM4	SATA port 4 DOM power connector
24	SATA4/SATA5	SATA 3 6Gb/s connectors (Supports SATA DOM) header
25	SATA_DOM5	SATA port 5 DOM power connector
26	USB_A1	Type A USB 2.0 connector
27	F_USB3	USB 3.0 header
28	F_USB2	USB 2.0 header
29	FP_1	Front panel header
30	IPMB	IPMB connector

Front Panel Header				HDD Back Plane Board Header			
No.	Pin Define	No.	Pin Define	No.	Pin Define	No.	Pin Define
1	Power LED+	2	5V Standby	1	BP_SGP_CLK	2	No Connect
2	No Pin	4	ID LED+	3	BP_SGP_GLD	4	FAN_SGP_Gate
3	Power LED-	6	ID LED-	5	BP_SGP_DOUT	6	GND
4	HDD LED+	8	System Front Board LED+	7	Key Pin	8	Reset
5	HDD LED-	10	System Status LED+	9	GND	10	BP_LED_A_N
6	Power Button	12	LAN1 Active LED+	11	BP_LED_G_N	12	GND
7	GND	14	LAN1 Link LED-	13	BP_SGP_DIN	14	No Connect
8	Reset Button+	16	SMBus Data	15	GND	16	SMB_BP_DATA
9	GND	18	SMBus Clock	17	GND	18	SMB_BP_CLK
10	Reset Button	20	Case Open	19	P_3V3_AUX	20	BMC_ACK
11	GND	22	LAN2 Active LED	21	P_3V3_AUX	22	BMC_REQ
12	ID Switch+	24	LAN2 Link LED-	23	GND	24	Key Pin
13	GND			25	BP_PRESENSE	26	GND
14	Reset Button						
15	GND						
16	SMBus Data						
17	SMBus Clock						
18	Case Open						
19	P_3V3_AUX						
20	Case Open						
21	P_3V3_AUX						
22	LAN2 Active LED						
23	LAN2 Link LED-						

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	System fan #14 (FAN14)
3	System fan #12 (FAN12)
4	System fan #8 (FAN8)
5	System fan #6 (FAN6)
6	System fan #4 (FAN4)
7	CPU heat sink
8	Memory slots
9	PCI riser bracket
10	Power supply cage

CAUTION!
To connect system fan connector, follow the instruction:
● Blue/Red cable connect to odd numbered connector.
● White/Amber cable connect to even numbered connector.

注意!
● 蓝/红电缆连接于单数风扇插座。
● 白/橘电缆连接于双数风扇插座。

Fan Duct

Heat Sink

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.
- 所有通道模式以最快的频率速度运行。
- 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

System Front View

No.	Description
1	USB 3.0 ports
2	ID button with LED
3	Power button with LED
4	HDD bays

System Rear View

No.	Description
1	Power supply module cord socket
2	Power supply fan
3	Serial port
4	VGA port
5	USB 2.0 ports
6	GbE LAN port
7	10/100/1000 Server management LAN port
8	USB 3.0 ports
9	Low-profile riser card bay

Power button/LED:

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

Speed 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
1/6	LAN3/LAN4 Active/Link LEDs, LAN1/2 Active/Link LEDs	Green	Solid On	Link between system and network or no access.
		Green	Blink	Data transmission or receiving is occurring.
		N/A	Off	No data transmission or receiving is occurring.
2	Power Button and LED	Green	Solid On	System is powered on.
		Green	Blink	System is in ACPI S1 state (sleep mode).
		N/A	Off	System is not powered on or in ACPI S5 state (power off). System is in ACPI S4 state (hibernate mode).
3	ID Button		Press the button to activate system identification.	
4	System Status LED	Green	Solid On	System is operating normally.
			Off	Degrade condition, may indicate: CPU failure, DIMM killed
		Amber	Solid On	Critical condition, may indicate: Power module failure, System fan failure, Power supply voltage issue, System temperature
			Blink	Non-critical condition, may indicate: Redundant power module failure, Temperature and voltage issue, Chassis intrusion
		N/A	N/A	System is not ready, may indicate: POST error, NMI error, Processor or terminator missing
5	HDD Status LED	Green	On	HDD locate
			Blink	HDD access
		Amber	On	HDD access
		Green/Amber	Blink	HDD fault
		N/A	Off	No HDD access or no HDD fault.
7	Reset Button		Press the button to reset the system.	

Rail Kit

- Release and detach the inner member from the slide. 将内轨取出
- Attach the unit to the inner member. 将内轨锁上机台
- Fix the outer member/bracket assembly to the frame. 将外轨+托架锁入机架
- Insert the unit to complete the installation. 装入机架

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) Lead (Pb)	汞 (Hg) Mercury (Hg)	镉 (Cd) Cadmium (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 Chips 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

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