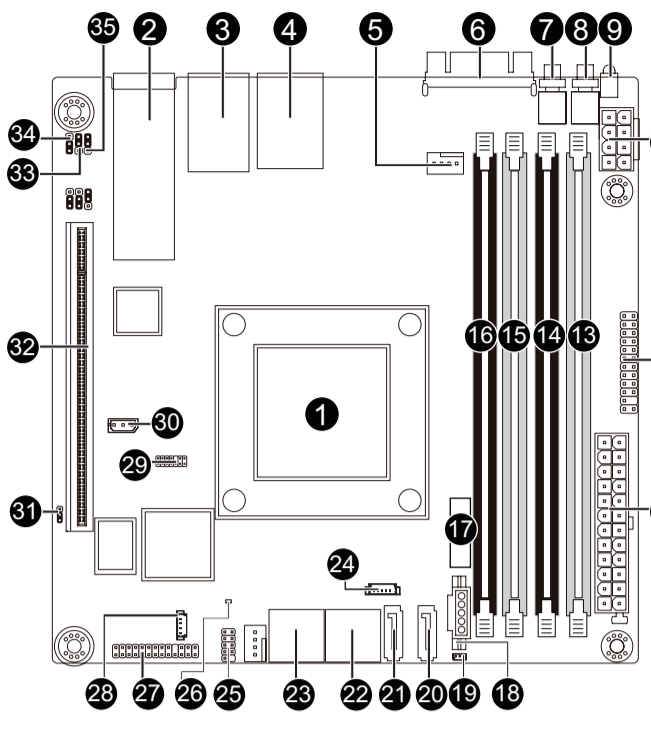


G150-B10 Quick Installation Guide/G150-B10 快速安装说明

Motherboard Components/ 主板组件



No.	Code	Description
1	CPU	Intel Xeon® processor D-1541, FCBGA1667 SoC (MB10-D53)
2	SFP+1_2	SFP+ connectors #1/#2
3	LAN1_2	LAN ports
4	USB3_MLAN	BMC Management LAN port (top) / USB 3.0 ports (bottom)
5	CPU_FAN	CPU fan connector
6	VGA	VGA port
7	SW_ID	ID switch button w/LED
8	SW_PWR	Power button w/LED
9	LED_STA	System Status LED
10	P12V_AUX1	8 pin power connector
11	FP_1	Front panel header
12	ATX1	24 pin main power connector
13	DIMM_P0_A0	Channel 1 slot 0
14	DIMM_P0_A1	Channel 2 slot 1
15	DIMM_P0_B0	Channel 3 slot 0
16	DIMM_P0_B1	Channel 4 slot 1
17	BAT1	Battery
18	PMBUS	PMBUS connector
19	SATA_DOM0	SATA DOM power cable connector
20	SATA0	SATA 3 6Gb/s connector
21	SATA1	SATA 3 6Gb/s connector
22	SATA_2_3	SATA 3 6Gb/s connectors
23	SATA_4_5	SATA 3 6Gb/s connectors
24	SATA_SGPIO	SATA SGPIO header
25	COM1	Serial port cable connector
26	LED_BMC1	BMC firmware readiness LED
27	BP_1	HDD back plane board header
28	NVME_PH	NVME connector
29	TPM	TPM module connector
30	IPMB	IPMB connector

No.	Code	Description
31	CLR_CMOS	Clear CMOS jumper 1-2 Close: Normal operation (Default setting) 2-3 Close: Clear CMOS data.
32	PCI_E1	PCI Express x16 slot
33	ME_UPDATE	ME update jumper 1-2 Close: Normal operation (Default setting) 2-3 Close: ME update mode.
34	ME_RCVR	ME recovery jumper 1-2 Close: Normal operation. (Default setting) 2-3 Close: ME recovery mode.
35	S3_MASK	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)

Front Panel Header/ 前面板接头

No.	Pin Define	No.	Pin Define
24	1 Power LED+	2	5V Standby
25	2 No Pin	3	ID LED+
26	3 Power LED-	4	ID LED-
27	4 HDD LED+	5	System Front Board LED+
28	5 HDD LED-	6	System Status LED-
29	6 Power Button	7	LAN1 Active_LED+
30	7 GND	8	LAN1 Link_LED-
31	8 Reset Button+	9	SMBus Data
32	9 GND	10	Case Open
33	10 ID Switch+	11	SMBus Clock
34	11 ID Switch-	12	Case Open
35	12 NMI Switch-	13	LAN2 Active_LED
		14	LAN2 Link_LED-

HDD Back Plane Board Header/ 硬盘驱动器底板接头

No.	Pin Define	No.	Pin Define
1	1 BP_SGP_CLK	2	No Connect
2	2 BP_SGP_GLD	3	FAN_SGP_Gate
3	3 BP_SGP_DOUT	4	GND
4	4 Key Pin	5	Reset
5	5 GND	6	BP_LED_A_N
6	6 BP_LED_G_N	7	GND
7	7 BP_SGP_DIN	8	No Connect
8	8 GND	9	SMB_BP_DATA
9	9 GND	10	SMB_BP_CLK
10	10 P_3V3_AUX	11	BMC_ACK
11	11 P_3V3_AUX	12	BMC_REQ
12	12 GND	13	Key Pin
13	13 GND	14	GND
14	14 BP_PRESENSE	15	GND

System Cover/ 机箱盖

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箱盖之前, 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/ 系统组件

No.	Description
1	HDD bays
2	System fan #9/#10 (FAN9/FAN10)
3	System fan #7/#8 (FAN7/FAN8)
4	System fan #5/#6 (FAN5/FAN6)
5	System fan #3/#4 (FAN3/FAN4)
6	System fan #1/#2 (FAN1/FAN2)
7	CPU and CPU heat sink
8	Memory slots
9	PCIe 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/ 风扇散热片

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/ 安装内存

Type	Ranks Per DIMM and Data Width	Speed (MT/s): Slot Per Channel (SPC) and DIMM Per Channel (DPC)		
		1 Slot Per Channel (1DPC)	2 Slot Per Channel (2DPC)	3 Slot Per Channel (3DPC)
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 DDR4-2400MHz 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, 系统将无法正常引导。

Hard Disk Drive and Back Plane Board/ 硬盘驱动器与硬盘驱动器底板

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

CAUTION!
Read the following guidelines before you begin to install the Hard disk drive:
● Take note of the drive tray orientation before sliding it out.
● The tray will not fit back into the bay if inserted incorrectly.
● Make sure that the HDD is connected to the HDD connector on the backplane.
注意!
在滑出驱动器托盘之前, 注意其方向。
● 托盘插入不当时, 无法进入托槽。
● 确保硬盘驱动器连接到底板上的硬盘驱动器底板。

Front & Rear/ 系统前部与后部概览

No.	Description	No.	Description
1	ID button w/LED	1	Power supply fan
2	Power button w/LED	2	Power supply module cord socket
3	HDD bays	3	System Status LED
		4	Power button w/LED
		5	ID switch button w/LED
		6	VGA port
		7	USB 3.0 ports
		8	10/100/1000 Server management LAN port
		9	GbE LAN ports
		10	SFP+ LAN ports

Speed LED Link/Activity LED

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

SFP+ LAN LED:

State	Description
Yellow On	1Gbps data rate
Green On	10 Gbps data rate

Power button/LED:

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

ID button/LED:

State	Description
Blue On	System identification is active.
Off	System identification is disabled.

PCI Express Card/PCI Express 扩展卡

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/ 前面板 LED 说明

No.	Name	Color	Status	Description
1	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).
2	ID Button			Press the button to activate system identification.
3	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
4	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.
5/6	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.
7	Reset Button			Press the button to reset the system.
8	NMI Button			Press the button to generate an NMI.

Rail Kit/ 导轨

1 Release and detach the inner member from the slide
将内轨取出

2 Attach the unit to the inner member
将内轨锁上机台

3 Fix the outer member/bracket assembly to the frame
将外轨+托架锁入机架

4 Insert the unit to complete the installation
装入机架

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、罐体或排气管。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

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 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

对销售之目的所发售产品,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.

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 (T_{ma}) 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)

声明 本系统功率大于 1300W



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.

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For more information, visit our website at:
<http://b2b.gigabyte.com>

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