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# 产 品 规 格 说 明 书

INYUDA for product specification

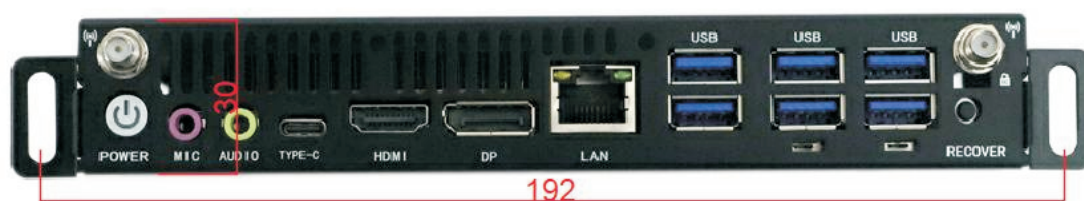
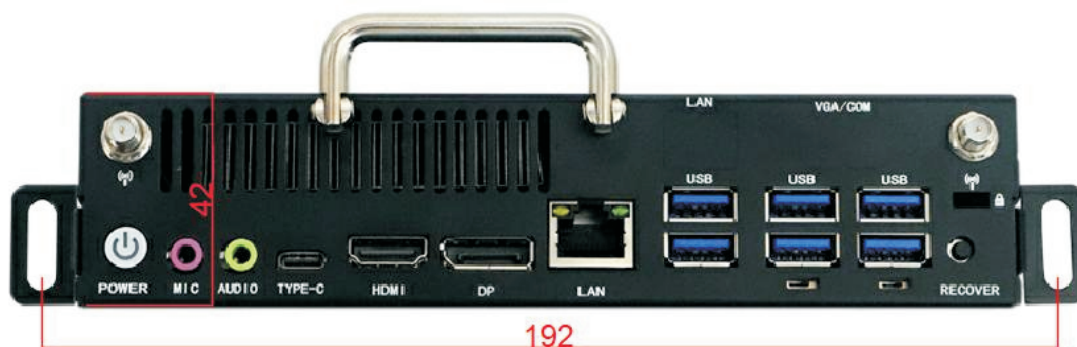


产品名称 DESCRIPTION: H610M-OPS

PCB 版本 PCB\_VERSION: V1.0

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产品图片&尺寸 Product Photos & Size:

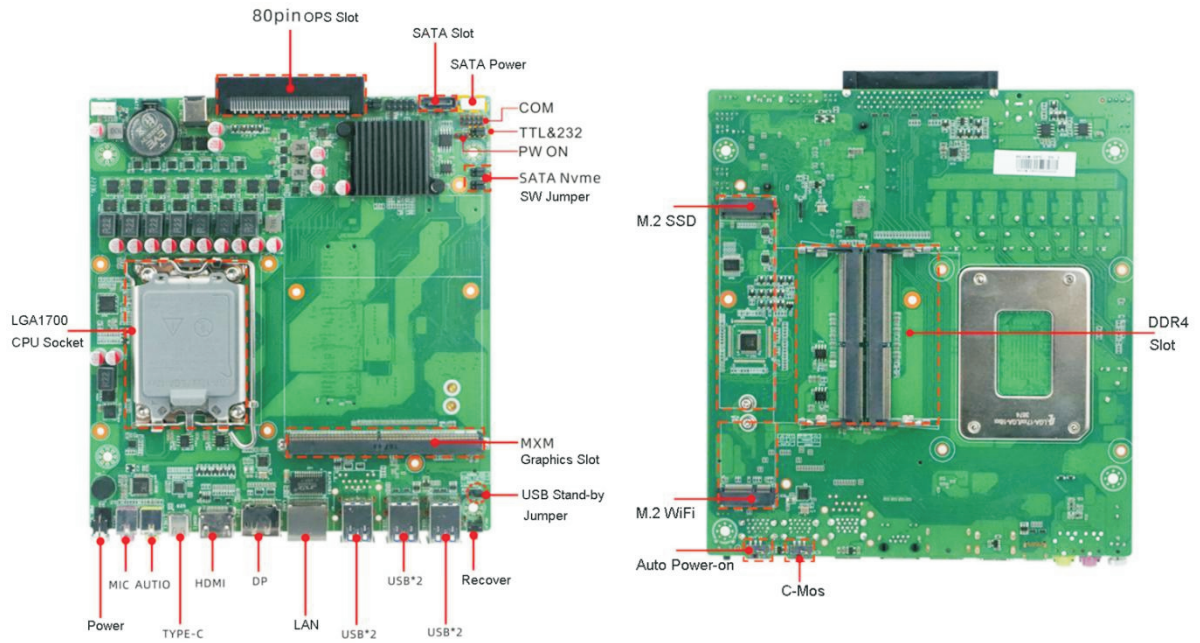


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主板参数 Motherboard Specifications		
类型 Type	内容 Content	参数 Specs
型号 Model		H610-OPS V1.0
结构 Structure	尺寸 Size	190MM*170MM 六层 PCB
CPU	CPU	LGA1700,支持赛扬/奔腾/I3/I5/I7 12/13 代处理器
	芯片组 Chipset	INTEL H610
内存 Memory	规格 Type	2 XDDR4 2133/2400/2666/3200MHz
	最大容量 Max Capacity	64GB
供电 Power	DC	12V~19V
显示输出接口 Display PORT	HDMI	1X 3840x2160@60hz
	DP	1X 3840x2160@60hz
	JAЕ	1X 3840x2160@60hz
音频 Audio	芯片 Chip-set	ACL 897 高清音频芯片 HD Audio chip-set
网络 Internet	芯片 Chip-set	With 10/100/1000Mbps LAN Realtek 千兆网卡 Gigabit Ethernet card
	M.2 WIFI	1×M.2 2230 slot (support WIFI/BT/CNVI)
存储 Storage	Sata3.0	1
	M.2 Sata	1x M.2 2280 slot (support SATA/NVME protocol)
IO 面板 I/O Ports	开关 Power	1
	麦克风 Mic	1
	音频输出 Audio	1
	TYPE-C	1
	HDMI	1
	DP	1
	LAN	1 可选 LAN*2(下单告知商务)增加 LAN2 只能上 42 高度机箱
	USB3.2	6
一键还原 Recover	1	
内部接口 Inner sockets	MXM	1 MXM 类型显卡接口 graphics slot
	JCOM	1 232 串口 series port
	SATA3.0	1
	HDD PWR	1 2.5 寸硬盘供电 2.5inch SATA power
	F-USB4	1 可拓展 2 个 USB2.0 Can extend to 2*USB2.0
	CPUFAN	1 CUP 风扇插针 Cooling Fan Pin
	F-PANEL	1 开关插针 Power Switch Pin
内部跳冒说明 Jumper Introduction	JUSB-POWER	1 USB 带 5V 电压 USB 5V Stand-by Jumper
	JC1/JC2	1 Sata/ Nvme 切换 Switch Jumper
	SW2	1 232/ TTL 切换 Switch Jumper

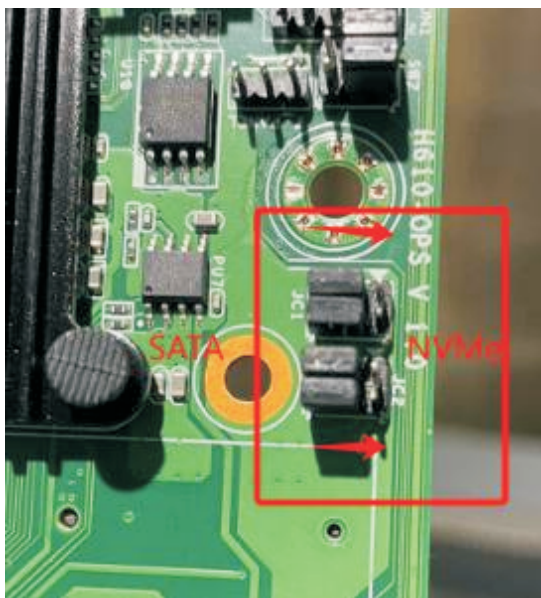
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主板接口示意图 Inner Motherboard Specs:



I/O ports: Power SW, Audio, Mic, TypeC, HDMI, DP, LAN, USB3.2\*6

\*\*\*The jumpers (on the left side) defaulted SATA protocol, move them into the right side, the m.2 socket support NVMe protocol.



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## BIOS 设定 BIOS Setting

请注意由于 BIOS 不断更新，可能我们说明的部分或许与现有板上 BIOS 有些不同，一切仅供 参考，以实际为主。BIOS 中一些未做过多说明的项目，属于非常用项目请保持缺省 值，建议不要 随意更改。欲进入 BIOS 设定程序画面，请依下列步骤：

Please note that due to the continuous updating of the BIOS, some parts of our description may be different from the existing BIOS, everything is for reference only, subject to the actual situation. some items in the BIOS that are not explained too much are non-useful items, please keep the default value, and it is recommended that you don't change them arbitrarily. To enter the BIOS setup screen, please follow the steps below:

**a. 打开电源或重新启动系统，在自检画面可看到 “PRESS DEL TO RUN SETUP”**

Turn on the power or reboot the system, you can see from the self-test screen says: "PRESS DEL TO RUN SETUP"

**b. 按下 DELETE 键后，即可进入 BIOS 设定程序。**

Hold on the DELETE key to enter the BIOS setup programme.

BIOS 功能键说明 BIOS function introduction	
按键 Keys	功能说明 Function Introduction
↑键 key	选择设置项目(上下移动) Choose to move up or down
← → 键 key	选择设置项目(左右移动) Choose to move left or right
+ - 键 key	改变设置状态或者变更键位之数值 Changing the setting status or the value of a key
< Tab > 键key	改变设置状态 Changing the setting status
< ESC > 键 key	退出设置程序并不存储设置 Exiting the setup programme does not store the settings
< F1 > 功能键functionkey	显示目前设定项目的相关辅助说明 Displays auxiliary instructions related to the currently set item
< F2 > 功能键functionkey	放弃程序的修改 Abandon the programme change
< F8 > 功能键functionkey	载入安全模式的默认值 Load safe mode defaults
< F9 > 功能键functionkey	载入出厂预设优化值 Load factory preset optimisation values

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< F10 > 功能键 Functionkey	退出设置程序并存储设置 Exiting the setup programme and storing the settings
< F11 > 功能键 Functionkey	快捷启动盘 Quick start disc

**警告:** 在居住环境中，运行此设备可能会造成无线电干扰。

天线端口的连接线缆小于等于 3m。

**WARNING:** Operating this device in a residential environment may cause radio interference.

The connecting cable for the antenna port is less than or equal to 3m.

## 特殊端口功能说明 Special Socket Introduction

### OPS 端口实物截图及定义 OPS Socket Photo and definition



80 PIN OPS 端子，内部包含 HDMI 信号，音频信号，串口信号，开关机信号，状态检测信号等。

具体定义如下：

80Pin OPS terminal, which contains HDMI signal, audio signal, serial port signal, switching signal, status detection signal and so on internally.

Specific definitions are as follows:

PIN	定义	PIN	定义	PIN	定义	PIN	定义
1	DP_3N	21	HDMI_TX0_DP	41		61	USB_DP1
2	DP_3P	22	GND	42		62	GND
3	GND	23	HDMI_TX1_DN	43		63	USB_DN2
4	DP_2N	24	HDMI_TX1_DP	44		64	USB_DP2
5	DP_2P	25	GND	45		65	GND
6	GND	26	HDMI_TX2_DN	46		66	USB_DN3
7	DP_1N	27	HDMI_TX2_DP	47		67	USB_DP3
8	DP_1P	28	GND	48		68	GND
9	GND	29	HDMI_SDA	49		69	AUDIO_L
10	DP_ON	30	HDMI_SCL	50	SYS_FAN	70	AUDIO_R
11	DP_OP	31	HDMI_HPD	51	UART_RX	71	CEC
12	GND	32	GND	52	UART_TX	72	PB_DET
13	DP_AUXN	33	VDD	53	GND	73	PS_ON
14	DP_AUXP	34	VDD	54	USB3_RXN	74	STATUS
15	DP_HPD	35	VDD	55	USB3_RXP	75	GND
16	GND	36	VDD	56	GND	76	GND
17	HDMI_CLK_DN	37	VDD	57	USB3_TXN	77	GND
18	HDMI_CLK_DP	38	VDD	58	USB3_TXP	78	GND
19	GND	39	VDD	59	GND	79	GND
20	HDMI_TX0_DN	40	VDD	60	USB_DN1	80	GND

定义：definition