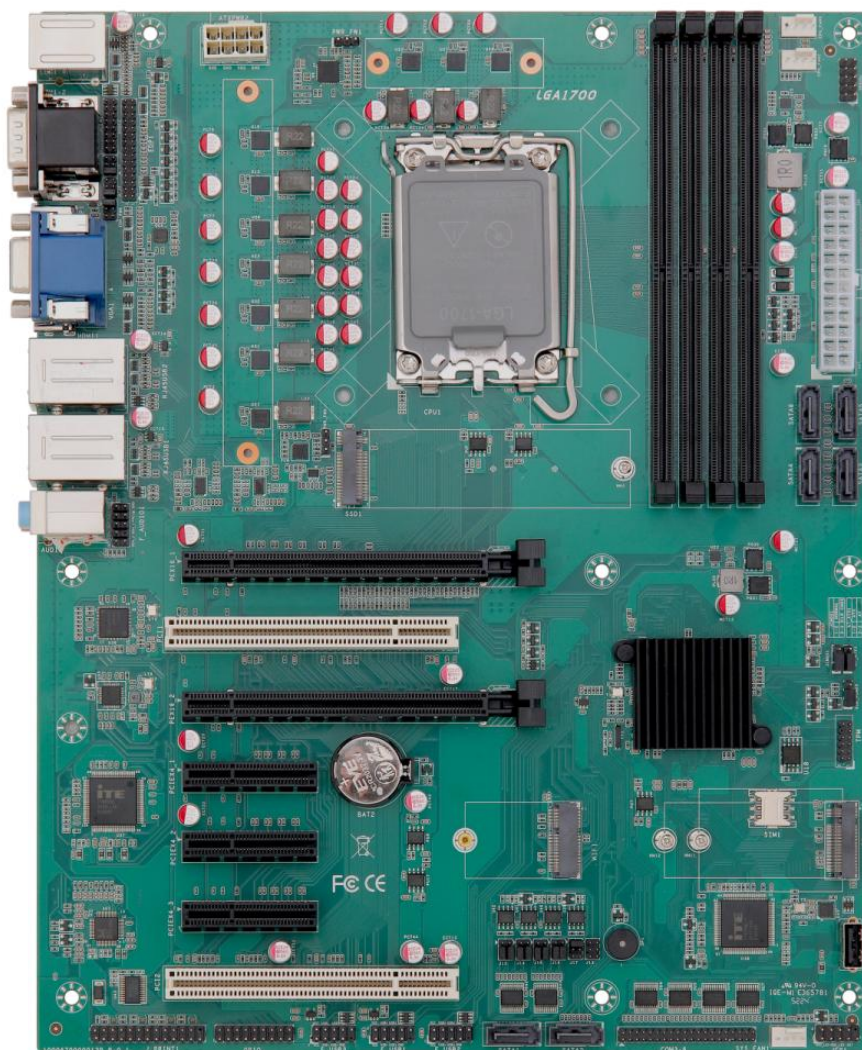


H670-ATX

用户使用手册 User Manual



产品型号 Product Model No.: H670-ATX

PCB 版本 PCB_VERSION: V1.0

声明： Statement:

本手册包含的内容并不代表本公司承诺，本公司保留对此手册更改的权力，且不另行通知，对于任何因安装、使用不当而导致的间接、直接、有意或无意的损坏及隐患概不负责。

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警告提示 Warning

为避免电击危险： To avoid the risk of electric shock:

- 请勿在雷暴天气期间连接或断开任何电缆的连接，安装，维护或重新配置本产品。 Do not connect or disconnect any cables, install, maintain or reconfigure this product during a thunderstorm.
- 将所有电源线连接正确且采用接地的电源插座。 Connect all power cords properly and use a grounded electrical outlet.
- 将所有要连接到本产品的设备连接到正确连线的插座。 Connect all devices to be connected to this product to properly wired outlets.
- 尽量仅用单手连接或断开信号电缆的连接。 Try to connect or disconnect signal cables with one hand only.

更换系统电池时，请使用同类电池进行更换。电池含锂，如果使用、操作或处理不当会发生爆炸。
When replacing the system battery, use a comparable battery for replacement. Batteries contain lithium and can explode if used, handled, or disposed of incorrectly.

I. 详细规格 Details Specifications:

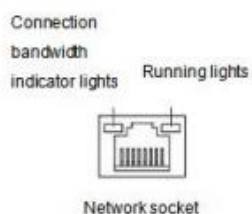
主板型号 MB Model.:	● 标准 ATX 工业 母 板 Standard ATX Industrial Motherboard 244x305mm H670-ATX
处理器 Processor	● 支持 Support Intel® LGA 1700 slots 12-14th generation processor
显示芯片 Graphics	● Intel®HD Graphics 核显 Integrated Graphics ● 支持 Support PCIe16 Slot, graphics card
显示输出 Display Output	● IO Port: HDMI+DP+VGA (接口 Ports), EDP+HDMI(插针 Pins) ● 最大分辨率 Max Resolution HDMI 支持 Support 3840x2160@60Hz ● 最大分辨率 Max Resolution DP 支持 Support 3840x2160@60Hz ● 最大分辨率 Max Resolution EDP 支持 Support 5120 x 3200 @ 120Hz ● 最大分辨率 Max Resolution VGA 支持 Support 1920x1080@60Hz
内存 RAM	● 4 * DDR5 UDIMM 支持 Support DDR5 4800/5600/6000/6400MHz MAX: 128G
存储 Storage	● 6*SATA ● 1*M.2 M Key 2280 Solt 支持 Support NVMe/SATA 协议 Protocol [自动切换 Auto-switch]
扩展槽 Extension	● 1*M.2 E Key 2230 solt ● 3*PCIEX4 solts ● 2*PCI solts
音频 Audio	● 1*Realtek ACL897 High Definition Audio Driver
网络 Internet	● 2*Intel I210,I219 1000M 千兆网卡[双网] Gigabit LAN card[dual LAN]
USB	● 6*USB3.2 Gen2 [最大支持 Max Support: 10Gbps] ● 6*USB2.0
I/O 芯片 Chip-set	● IT8786E-I HX
BIOS	● AMI BIOS
电源接口 Power Supply	● 标准 Standard ATX 24PIN+8PIN

散热系统 Cooling System	● 自带 CPU 散热器 With CPU Fan ● 内置 Built-in: 1*CPU_FAN 1x4Pin 可选 2 个(optinal 2 fan pins); 1*CPU_SYS 1x3Pin
环境 Environment	● 工作: 0~60℃ ● 存储: -20℃~75℃ 0%~95%相对湿度, 无冷凝

II. 后置 IO 面板: Panel I/O Ports:



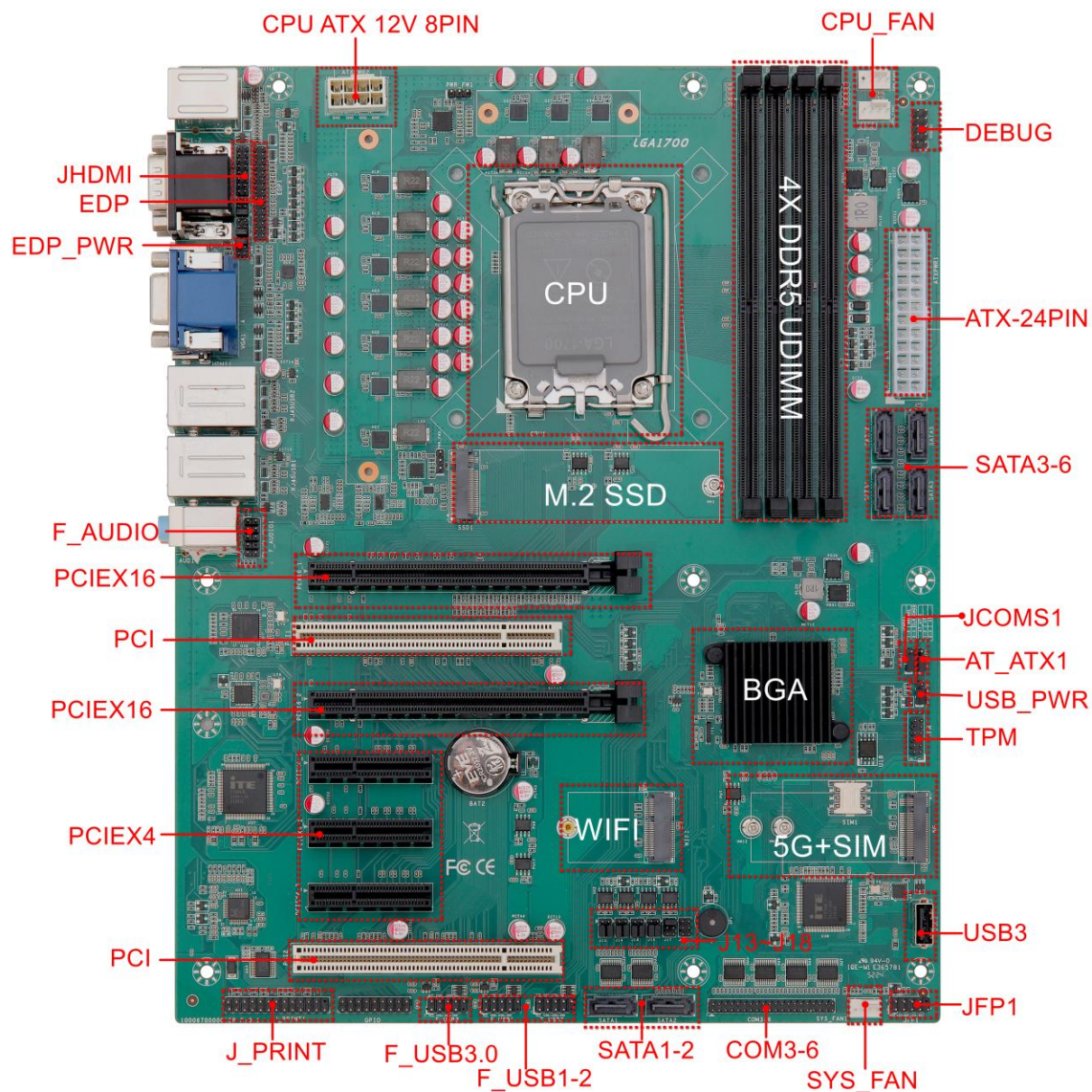
后置 I/O 面板 Panel I/O Ports:	● USB_KBMS1: 【PS2 鼠标+键盘 Mouse+keyboard, 2*USB3.2】
	● COM1-2: 【COM1,COM2 支持 Support RS232,RS422,RS485】
	● DP: 【3840x2160@60Hz】
	● HDMI: 【3840x2160@60HZ】
	● VGA: 【1920x1080@60Hz】
	● RJ45USB1-2: 【2*Lan Intel I210,I219 芯片 chip-set】
	● USB1-2: 【4*USB3.2 Gen2 MAX: 10Gbps】
	● AUDIO: 【1* LINE-IN,1*MIC-IN,1*LINE-OUT】



Connect the bandwidth indicator light	
tape width	The lamp state
connectionless	go out
10M bps	Green is always bright
100M bps	Green is always bright
1000M bps	Orange is always bright

Run the indicator light	
No data transmission	go out
In data transmission	twinkle

III. 内置接口: Inner Interfaces:



CPU	● 支持 Support LGA1700, Celeron/Pentium/Core I3/I5/I7/I9 12-14th generation processor
BGA	● H670/Q670/Z690/H770/Z760
DDR5	● 4 * DDR5 UDIMM 支持 Support DDR5 4800/5600/6000/6400MHz MAX: 128G
SATA1-2	● 6*SATA3.0
SATA3-6	
M.2 SSD	● M.2 M-Key 2280 Solts 【SATA/NVMe Auto Switch】

WIFI	● M.2 E-Key 2230 Slot 支持 Support WiFi6+蓝牙模块 Bluetooth
5G+SIM	● M.2 B-key 4G/5G 模块 Module, 可插 Can Insert SIM Card
JHDMI	● HDMI 插针 Pin 2x8 header
EDP	● EDP 插针 Pin 2*13 Header 2.0mm
EDP_PWR	● 2x3 Header 2.0mm 插针 Pin, 3.3V/5V/12V, 默认 Default 3.3V
F_AUDIO	● 2x5Pin Header N8 [前置 Front MIC/Audio 插针 Pin]
PCIEx16	● 2xPCIEx16 slots
PCIEx4	● 3 个 PCIE4 slots
PCI	● 2xPCI slots
J_PRINT	● Printer Interface 2x13 Header 2.0MM Pin N26, PIN2.54mm
F_USB3.0	● HEADER 2 * 10(-20), PIN2.0mm
F_USB1-2	● 2xHeader 2.54MM pin, PIN2.54mm
COM3-6	● 4 COM, 2*20 Header 2.0MM pin, PIN2.0mm
J13~J18	● COM1, COM2 for RS232/RS422/RS485 protocol switching, PIN2.0mm
SYS_FAN	● 1x3Pin Wafer SYS_FAN Connector
CPU-FAN	● 1x4Pin Wafer CPU_FAN Connector, [1 default, 2 optional].
JFP1	● 2x5 Header 2.54MM Pin N10, PIN2.54mm
USB3	● Built-in USB2.0
TPM	● External TPM device
USB_PWR	● 1x3Pin Header [JMP default 1-2=VCC5 switch 2-3=5VSB].
AT_ATX1	● 1x3Pin Header JMP Default 1-2=Off Power On Self-Start Toggle 2-3=On Power On Self-Start
JCOMS1	● 2-3 clear CMOS, default setting 1-2
ATX-24PIN	● Standard ATX-24PIN Power Supply
ATX 8PIN	● CPU power supply 2x4PIN
DEBUG	● 2x5Pin Header, motherboard status detection PIN2.54mm