

User Manual

# H12D-8D



**HUANANZHI**<sup>®</sup>

SZ HUANAN SANXIAN TECHNOLOGY CO.,LTD.  
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## 安全信息

此包装中包含的组件有可能静电放电 (ESD) 损坏。请遵守以下注意事项, 以确保成功组装计算机

确保所有组件连接牢固。若连接不紧可能会导致计算机无法识别组件或无法开启

拿取主板时为防止静电损坏其配置, 请在拿取主板前通过接触其它金属物体释放自身的静电

拿起主板时请手持主板边缘, 避免触及主板的敏感组件

在不安装主板时, 请将主板放在静电屏蔽容器或防静电垫上

在打开计算机前, 确保计算机机箱内的主板或任何位置上没有松动的螺丝或金属组件

在安装完成之前不要启动计算机。否则可能会导致组件永久性损坏以及伤害使用者

在任何安装步骤中, 如果您需要帮助, 请咨询专业的售后客服人员

安装或拆卸计算机任何组件之前, 请先关闭电源, 并将电源线由插座上拔除

本主板须远离湿气

保留本用户指南以供将来参考

## 简介

在电源供应器连接到电源插座之前,请确保您的插座提供了电源供应器上额定相同的指示电压

将电源线摆放在不会被人踩到的地方,不要在电源线上放置任何物品

发生下列任一状况时,请将本主板交由维修人员检查:

有液体渗透至计算机内

主板暴露于水气当中

主板不工作,或您依照使用指南后仍无法让本主板工作

主板曾掉落且损坏

主板有明显的破损痕迹

## 包装说明

请确认您所购买的主板包装是否完整,如果有包装损坏或是任何配件损坏、短缺的情况,请尽快联系我们

1. 华南金牌H12D-8D主板一片
2. SATA数据线 2根
3. I/O后挡板一块
4. 说明书一本

## 特点介绍

CPU: AMD® EPYC 7002/7003系列

RAM: 8\*DIMM 最大支持2TB DDR4  
3200/2933/2666/2400/2133MHZ

实际内存数据速率取决于CPU类型和DRAM模块

I/O接口: 2x USB2.0接口  
4x USB3.2 接口  
1x VGA显示接口  
2x RJ45 2.5G网卡接口  
1x IPMI管理接口  
1x 音频接口

内置插针: 1x 前置音频接口  
1x 19针USB3.0接口  
1x 9针USB2.0接口  
1x 9针COM接口  
1x 9针JFP1接口  
6x 4针风扇接口

扩展插槽: 4xPCIe3.0/4.0x16  
IPMI模块接口

存储: 4xSATA3.0  
3xMINISAS(SATA\*4&PCIE3.0/4.0X4)

## 主板图解

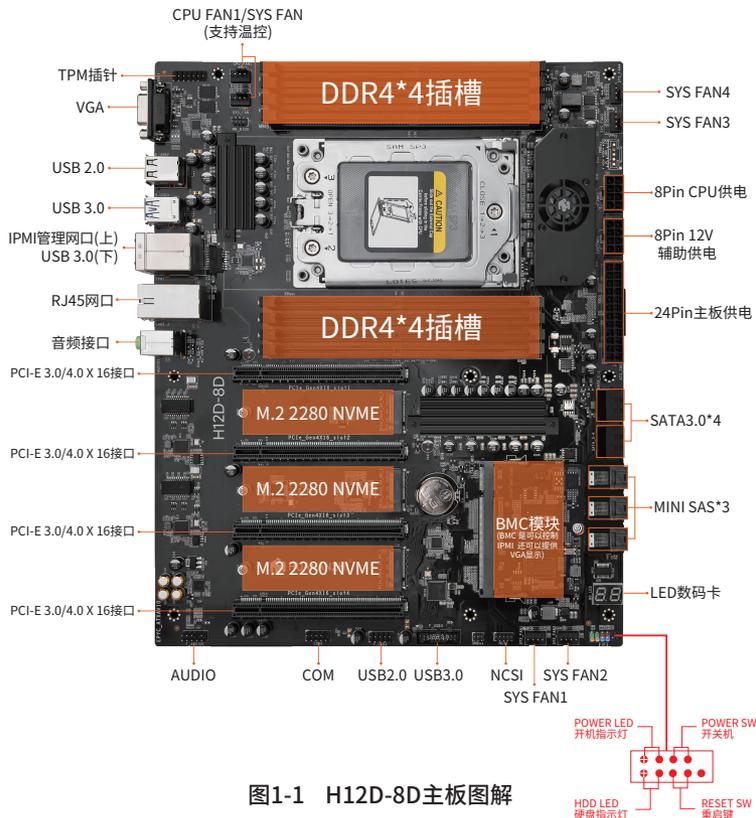


图1-1 H12D-8D主板图解

## 后置I/O面板

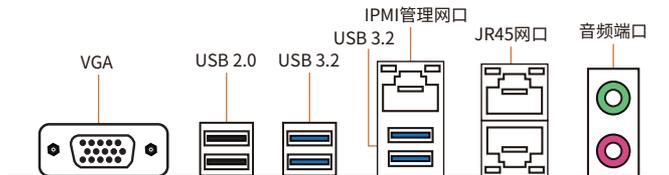


图1-2 整体后置I/O面板展示

连线/工作灯号	
状态	网灯状态
2.5G	左橙信号灯闪烁, 右绿状态灯常亮
1G	左橙信号灯闪烁, 右绿状态灯常亮
10/100M	左橙信号灯闪烁, 右状态灯不亮

图1-3 LAN端口状态表

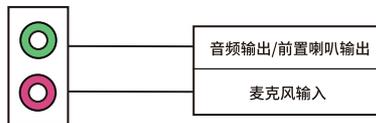


图1-4 音频端口配置

## 安装与设置

**注意** 请仔细查看主板，凡有表明“1”或是白色粗线标记的接脚均为1脚位置。

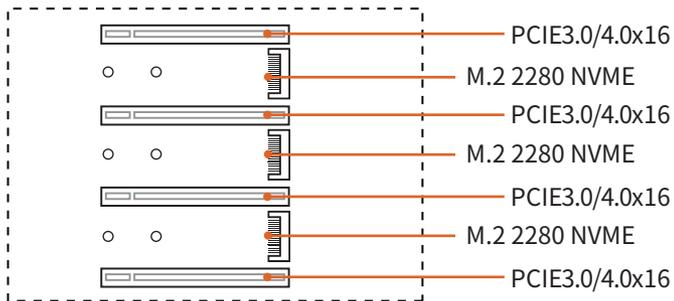
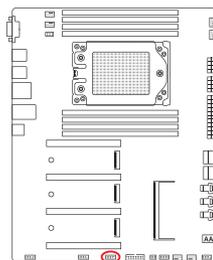
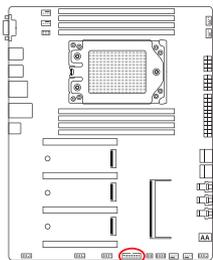


图2-1 PCIe扩展插槽



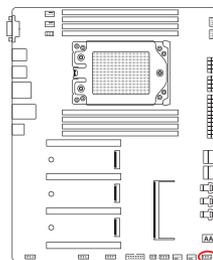
1	VCC 电源正极	2	VCC 电源负极
3	D- 数据负信号	4	D- 数据负信号
5	D+ 数据正信号	6	D+ 数据正信号
7	GND 接地	8	GND 接地
9	KEY 空脚	10	N.C 空

图2-3 USB扩充接口



1	Power	2	USB3_RX_DN
3	USB3_RX_DP	4	Ground
5	USB3_TX_C_DN	6	USB3_TX_C_DP
7	Ground	8	USB2.0-
9	USB2.0+	10	GND
11	USB2.0+	12	USB2.0-
13	Ground	14	USB3_TX_C_DP
15	USB3_TX_C_DN	16	Ground
17	USB3_RX_DP	18	USB3_RX_DN
19	Power	20	N.C 空

图2-2 USB3.0接口



1	硬盘指示灯-电源正极	2	电源指示灯-电源正极
3	硬盘指示灯-电源负极	4	电源指示灯-电源负极
5	重新启动接口-重启开关	6	ATX电源开关-电源开关
7	重新启动接口-重启开关	8	ATX电源开关-电源开关
9	N.C 空	10	N.C 空

图2-4 F\_PANEL1开机接口

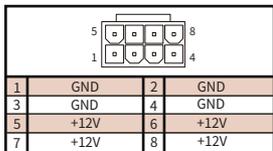
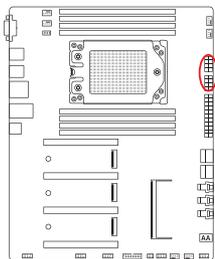


图2-5 ATX-12V接口

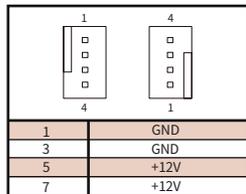
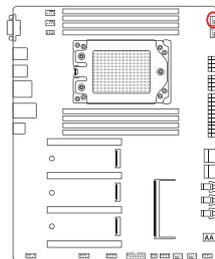


图2-7 风扇接脚定义

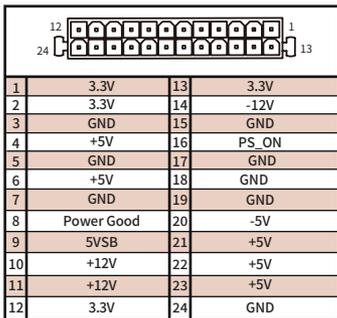
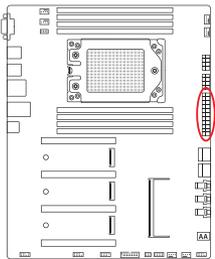


图2-6 ATX接口

## 安装CPU的操作指导如下：

1. 依次拧松固定CPU盖的3颗松不脱螺钉（1->2->3）。
2. 打开CPU盖。
3. 使用CPU盖上的拉手将带CPU的CPU盖从CPU框上取下。
4. 用CPU盖上的拉手将安装好CPU的新CPU盖插入到CPU框中。

Note: 确保CPU安装在CPU盖上的方向正确，CPU上的金三角对准CPU盖的左上角。

5. 将已安装CPU的CPU框插入CPU插座。
6. 将CPU盖子盖在CPU插座上。
7. 依次拧紧CPU盖螺钉（1g、2g、3），以固定CPU盖。

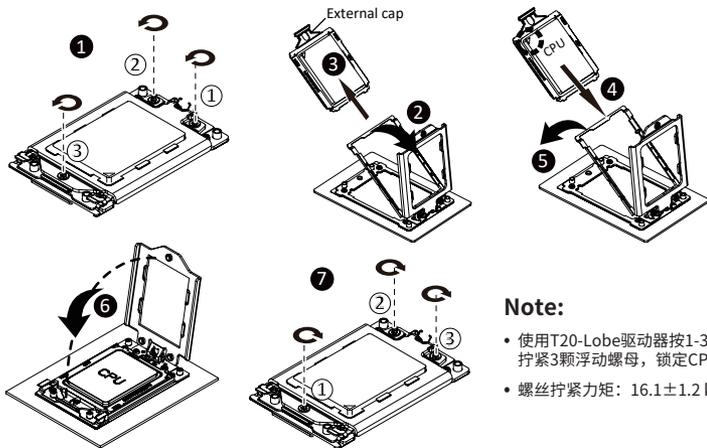
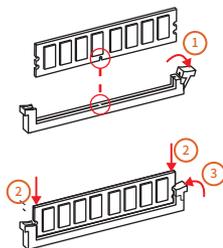


图2-8 CPU安装

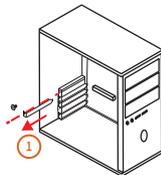
### Note:

- 使用T20-Lobe驱动器按1-3的顺序拧紧3颗浮动螺母，锁定CPU。
- 螺丝拧紧力矩：16.1±1.2 kgf-cm。

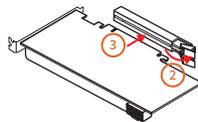


1. 将内存插槽两端的卡扣往外扳开，内存条与插槽的凸出位置做对应，确定安装的方向
2. 将内存条对准插槽，按下去
3. 让插槽两端的卡扣自动弹起来

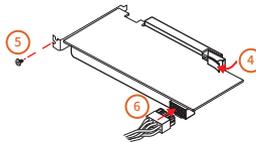
图2-9 内存安装



1. 用螺丝刀拆除主机箱上的挡板和螺丝



2. 安装显卡时需掰一下卡槽的卡头
3. 把显卡插到显卡的卡槽中



4. 安装到位以后，卡头会自动归位
5. 用螺丝把显卡固定在机箱上
6. 装好电源线即可

图2-10 显卡安装

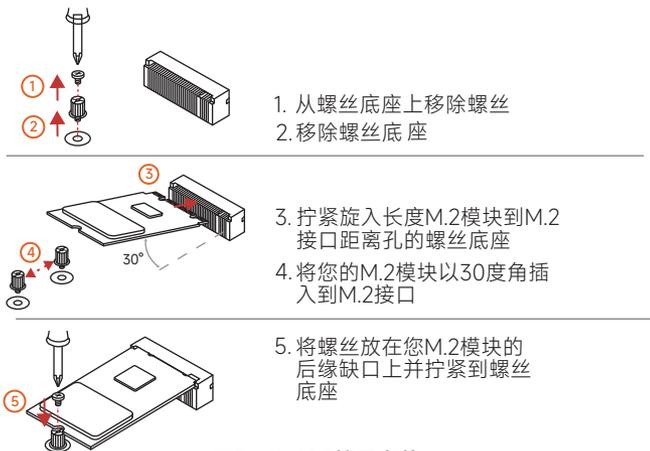


图2-11 M.2接口安装

## 驱动程序的安装

### 1.驱动程序目录一览：

驱动程序目录	驱动程序说明	适用操作系统
H12D-8D Chipset Driver	芯片信息安装	win10/win11
H12D-8D LAN Driver	网卡安装	win10/win11

### 2.芯片信息安装

运行:控制面板—系统—硬件—设备管理器

“右击”改动驱动程序的硬件设备，继续下面安装

选择:属性 - 更新驱动程序 - 不连接到Internet - 手动安装

—找到对应的目录

选择“下一步”

### 3.外置显卡驱动程序安装

运行外置显卡《驱动程序》：目录下的 Setup.exe

点击“下一步”，继续

点击“是”，继续

点击“下一步”，继续

点击“下一步”，继续

点击“完成”，系统将会自动查找设备完成安装

### 4.网卡驱动程序的安装

运行《驱动程序》：H12D-8D LAN/Win10\_11/setup.exe

点击“下一步”，继续

选择“安装”进行下面的安装

选择“完成”，重新启动计算机，系统将自动查找设备完成安装

### 5.驱动下载

可前往华南金牌官网下载驱动：<http://www.huananzhi.com/>

## BIOS设置

### ● Main

这个设置页面包括标准兼容BIOS的所有项

### ● Advanced

此设置页面包括aml BIOS特殊增强功能的所有项。(例如：自动检测风扇和温度状态，自动设置硬盘参数)

### ● Chipset

此设置页面包括用于配置北桥功能的所有子菜单选项

### ● Security

修改、设置或禁用管理员和用户密码。配置管理员密码允许您限制对系统的访问，而BIOS设置管理员密码允许您对BIOS设置进行更改。用户密码只允许查看BIOS设置，而不能进行更改。

### ● Boot

这个设置页面提供了启动顺序的配置项。

### ● Save & Exit

将在BIOS Setup程序中所做的所有更改保存到CMOS并退出BIOS

### ● AMD CBS

此设置页面包括AMD主板相关信息配置的常用项。

### ● AMD PBS Option

此设置页面包括AMD CPM RAS相关设置配置的常用项。

### ● Server Management

服务器附加功能启用/禁用设置菜单。  
放弃所有更改，以前的设置仍然有效。按<Y>到确认消息将退出BIOS设置。(按<Esc>也可执行此任务。)

## 保修条例

### 亲爱的华南金牌粉丝：

感谢您选择了华南金牌主板，为了给您提供更完善的服务，请在购买后仔细阅读以下说明，扫描右下方华南金牌官方微信，关注公众号即可获取电子保修卡资格、产品安装视频指引以及各项福利。

### 产品售后服务说明：

- 一、在正常使用的情况下，华南金牌主板提供自出售之日(按产品保修标日期为准)起三年免费的保修服务，人为损坏，不可抗力因素导致的损坏(如：浸水、火灾、雷击、氧化腐蚀及其它机械性破坏等导致的主板损坏不在此服务范围)
- 二、如产品自出售之日起超过三年的保修期限，本公司将视产品故障情况酌情收取维修过程中全新零件成本费用(人为损坏，不可抗力因素，不在此服务范围)
- 三、华南金牌为全体粉丝提供终身在线网络技术咨询服务，可在微信公众号咨询。

## 产品质量保证卡

\*填写此保修卡并按要求本产品经销商加盖公章以确定产品购买日期

用户姓名			联系电话				
联系地址							
经销商名称			购买日期				
产品型号			产品序列号				
经销商盖章	有毒有害物质或元素						
	部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
	PCB板	X					
	附件						
<small>* 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下 X：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 GB/T 26572 规定的限量要求，然该部件仍符合欧盟指令 2011/65/EU 的规范。备注：本产品所标示之环保使用期限，系指在一般正常使用状况下。</small>							



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华南金牌官网：<http://www.huananzhi.com/>

全国售后服务专线 400-168-2992

## DIRECTORY

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## SAFETY PRECAUTIONS

Products could probably be damaged due to electrostatic discharge(ESD).Please follow these steps below for a successful computer assembly.

Make sure all parts are firmly connected; otherwise, it might lead to the failure of recognizing components or starting the computer.

In order to prevent products from being damaged by ESD, please make sure to discharge your body static by touching other metal objects before taking the motherboard out of box.

Hold the border of motherboard when taking it out. Do not touch the sensitive parts of motherboard.

Please put the motherboard in an anti-static container or on anti-static pad if not needed.

Before turning on the computer, make sure all parts inside the case are firmly connected without any loose screws or metal components.

Do not start the computer before installation finished,otherwise it might result in permanent damage to thecomputer parts or even injury to the user.

If you need any assistance in the process ofinstallation, please contact our after-sales customer service or reach us on HUANANZHI official E-mail:business@huananzhi.com for professional technical support.

Prior to installation or disassembly, please switch off the power and pull the power cable from the socket.

- Place the main engine in a dry place
- Keep the motherboard away from moisture.
- Keep the user manual for future reference.
- Before plugging the power supply, please make sure the socket provides the corresponding voltage.
- In any of the following situations, please keep the motherboard and power cable in a safe place. Do not put anything onto the power cable.
- In the event of any of the following conditions, have the board checked by a service technician:
  - Liquid penetrated into the computer.
  - Motherboard is exposed to moisture.
  - Motherboard does not work even if you follow the instructions on user manual.
  - Motherboard fell onto the ground and got damaged.
  - Motherboard has clear signs of damage.

## PACKING

- Please confirm that the motherboard is properly packaged upon purchase of the product. If there is any damage to packaging or lack of accessories, contact us as soon as possible
  - 1.HUANANZHI H12D-8D Motherboard
  - 2.SATA data cable
  - 3.I/O shield back plate
  - 4.A manual

## BRIEF INTRODUCTION

### Features

CPU: AMD EPYC 7002/7003 Series

RAM: 8\*DIMM supports up to 2TB DDR4

3200/2933/2666/2400/2133MHZ

Actual memory data rate depends on CPU type and DRAM module

I/O effects: 2 x USB2.0 interface

4 x USB3.2 interface

1 x VGA interface

1 x RJ45 2.5G network adapter port

1 x IPMI management port

1 x Audio interface

Built-in Pin: 2 x Front audio Pin

4 x 19-Pin USB3.0

1 x 9 Pin USB2.0

1 x 9 Pin COM

1 x 9 Pin JFP1

1 x 4 Pin Fan

Expansion slot: 4xPCIe3.0/4.0x16

IPMI module port

Expansion slot: 4xSATA3.0

3xMINISAS(SATA\*4&PCIE3.0/4.0x4)

## Motherboard diagram

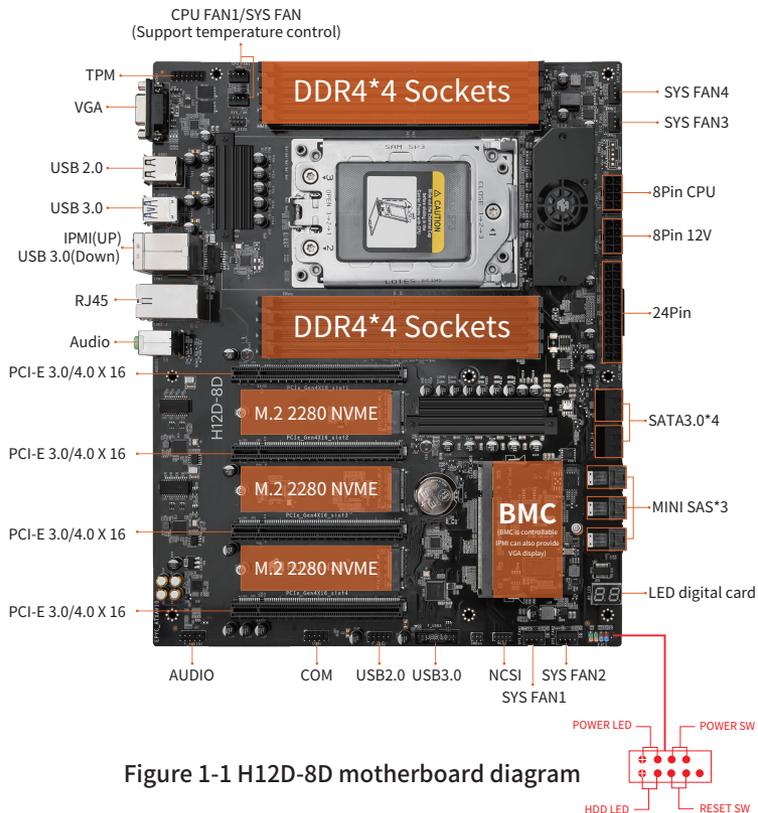


Figure 1-1 H12D-8D motherboard diagram

## The rear I/O panel

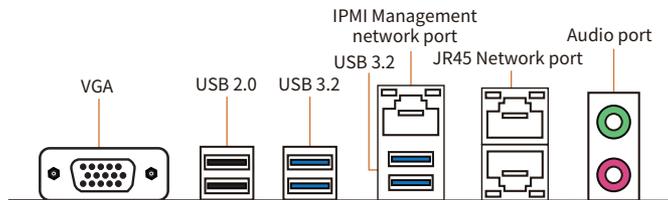


Figure 1-2 Rear I/O panel

Connection/working light	
status	Net light condition
2.5G	The left orange indicator is blinking and the right green status indicator is steady on
1G	The left orange indicator is blinking, and the right orange status indicator is steady on
10/100M	The left orange indicator is blinking, and the right indicator is off

Figure 1-3 LAN port status table

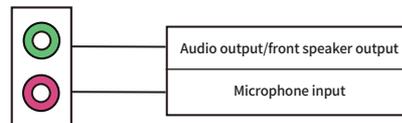


Figure 1-4 Configuring the audio port

## Installation and setup

**⚠ Look out** Please look carefully at the motherboard, where there is a "1" or white thick line mark pin is 1 position.

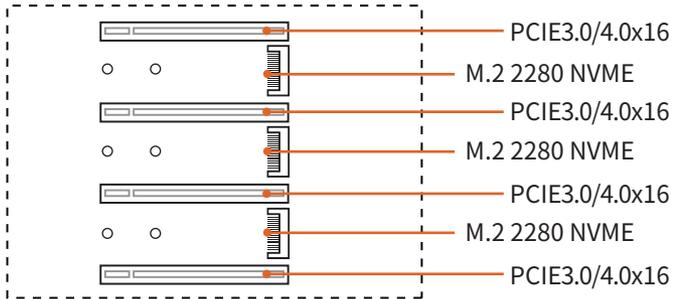


Figure 2-1 PCIe expansion slot

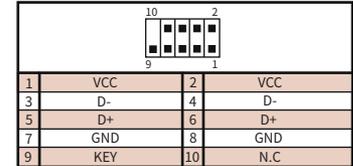
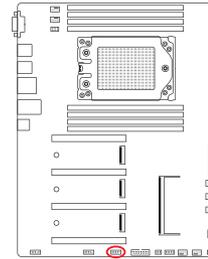


Figure 2-3 USB expansion port

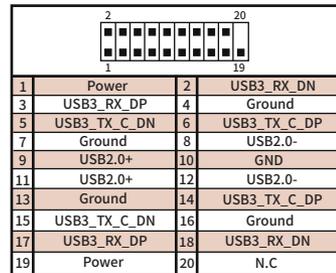
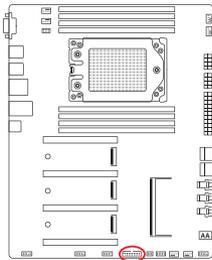


Figure 2-2 USB3.0 ports

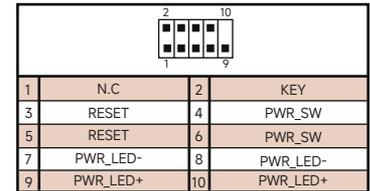
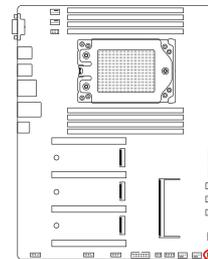


Figure 2-4 F\_PANEL1 Boot port

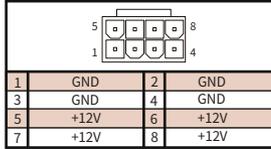
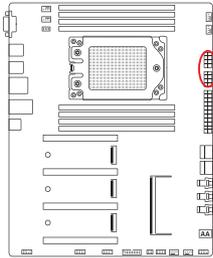


Figure 2-5 ATX-12V ports

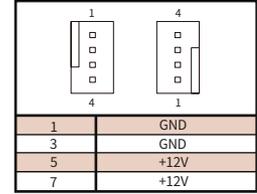
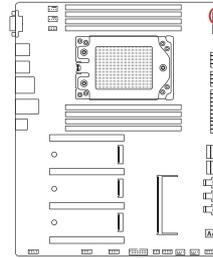


Figure 2-7 Defining fan pins

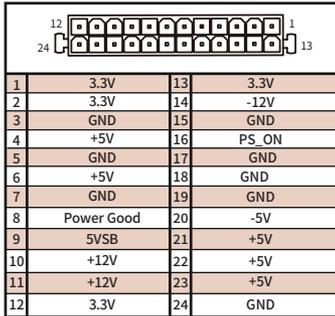
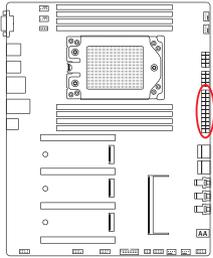


Figure 2-6 ATX ports

## The following describes how to install a CPU:

1. Loosen the three captive screws (1->2->3) that secure the CPU cover.
2. Open the CPU cover.
3. Use the handle on the CPU cover to remove the CPU cover from the CPU enclosure.
4. Use the handle on the CPU cover to insert the new CPU cover into the CPU enclosure.

Note: Make sure the CPU is mounted on the CPU cover in the correct orientation and that the golden triangle on the CPU is aligned with the upper left corner of the CPU cover.

5. Insert the CPU enclosure where the CPU is installed into the CPU socket.
6. Place the CPU cover on the CPU socket.
7. Tighten the screws (1g, 2g, and 3) to secure the CPU cover.

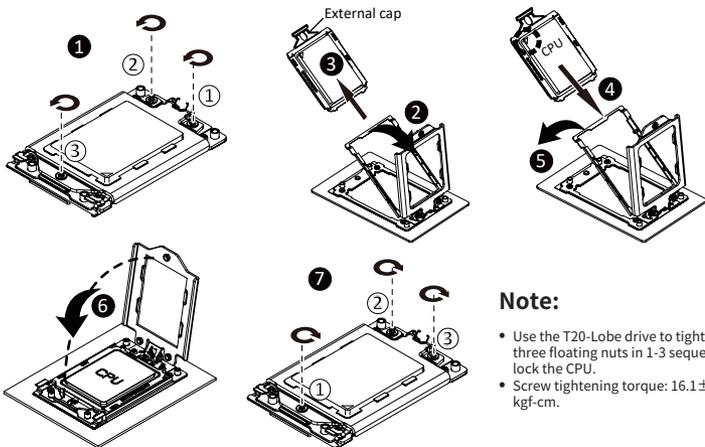


Figure 2-8 Installing a CPU

### Note:

- Use the T20-Lobe drive to tighten the three floating nuts in 1-3 sequence to lock the CPU.
- Screw tightening torque:  $16.1 \pm 1.2$  kgf-cm.

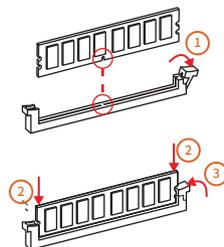
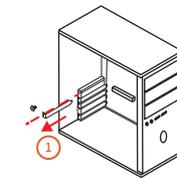
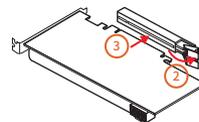


Figure 2-9 Memory installation

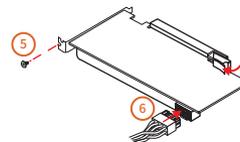
1. Open the latches at both ends of the memory slot, and determine the direction to install the memory module
2. Align the memory bar with the slot and press it down
3. Let the latches at both ends of the slot automatically spring up



1. Remove the baffle plate and screws from the main box using a screwdriver



2. When installing the video card, you need to break the card tip in the card slot
3. Insert the video card into the video card slot



4. Once installed in place, the card head will automatically return to the position
5. Use screws to secure the graphics card to the chassis
6. Install the power cable

Figure 2-10 Installing a graphics card

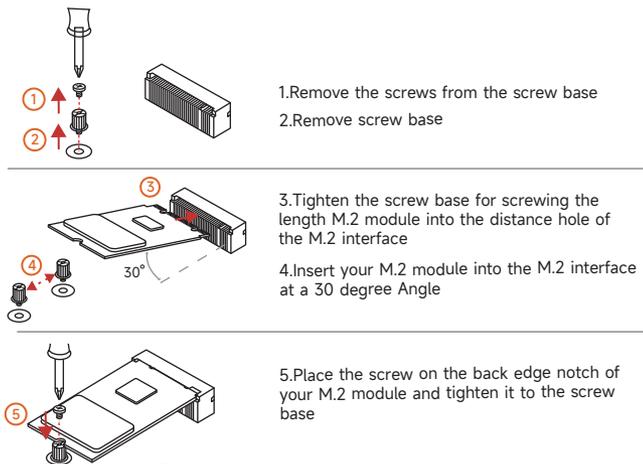


Figure 2-11 M.2 Installing ports

## Driver installation

### 1.Driver directory at a glance:

Driver directory	Driver specification	Applicable operating system
H12D-8D Chipset Driver	Chip information installation	win10/win11
H12D-8D LAN Driver	Network adapter installation	win10/win11

### 2.Chip information installation

Run: Control Panel - System - Hardware - Device Manager

Run "Right click" to change the driver hardware device, continue the installation below

Select: Properties - Update drivers - Do not connect to Internet- Install manually

- Find the corresponding directory

Select "Next"

### 3. Install the external graphics card driver

Run the external graphics card Driver: Setup.exe in the directory

Click "Next" to continue

Click "Yes" to continue

Click "Next" to continue

Click "Next" to continue

Click "Finish", the system will automatically find the device to complete the installation

### 4. Install the NIC driver

Run Driver: H12D-8D LAN/Win10\_11/setup.exe

Click "Next" to continue

Select Install to perform the following installation

Select Finish, restart the computer, and the system will automatically find the device to complete the installation

### 5. Driver download

Can download the drive to HUANANZHI website:

<http://www.huananzhi.com/>

# BIOS Settings

## ● Main

This setup page includes all the items of the standard compatible BIOS

## ● Advanced

This setup page includes all the items of AMI BIOS special enhanced features.(ex: Auto detect fan and temperature status, automatically configure hard disk parameters.)

## ● Chipset

This setup page includes all the submenu options for configuring the functions of the North Bridge

## ● Security

Change, set, or disable supervisor and user password. Configuration supervisor password allows you to restrict access to the system and BIOS Setup.A supervisor password allows you to make changes in BIOS Setup.A user password only allows you to view the BIOS settings but not to make changes.

## ● Boot

This setup page provides items for configuration of the boot sequence.

## ● Save & Exit

Save all the changes made in the BIOS Setup program to the CMOS and exit BIOS Setup. (Pressing<F10> can also carry out this task.)

## ● AMD CBS

This setup page includes the common items for configuration of AMD motherboard-related information.

## ● AMD PBS Option

This setup page includes the common items for configuration of AMD CPM RAS related settings.

## ● Server Management

Save all the changes made in the BIOS Setup program to the CMOS and exit BIOS Setup. (Pressing <F10> can also carry out this task.)Abandon all changes and the previous settings remain in effect. Pressing<Y> to the confirmation message will exit BIOS Setup.(Pressing <Esc> can also carry out this task.)

# Warranty regulations

## Dear HUANANZHI fans:

Thank you for choosing HUANANZHI motherboard, in order to provide you with more perfect service, please read the following instructions carefully after purchase, scan

## Product after-sales service description:

- 1.Under normal use, HUANANZHI motherboard provides three years free warranty service from the date of sale (according to the product warranty standard date), man-made damage, damage caused by force majeure factors (such as: flooding, fire, lightning strike, oxidation corrosion and other mechanical damage caused by the motherboard damage is not in the scope of service)
- 2.If the product exceeds the warranty period of three years from the date of sale, the company will charge the cost of new parts in the maintenance process according to the fault situation of the product (man-made damage, force majeure factors, not within the scope of this service)
- 3.HUANANZHI provides lifelong online network technical consulting services for all fans, which can be consulted in the wechat public number.

## Product quality assurance card

\*Fill in this warranty card and stamp the official seal of the product dealer as required to confirm the date of purchase of the product

User name		Date of purchase					
Contact address							
Dealer name		Contact number					
Product model		Product serial number					
Dealer seal	Poisonous or harmful substance or element						
	Part name	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
	PCB	X					
	attachments						
<small>                 ? Indicates that the content of the hazardous substance in all homogeneous materials of the part is below the limit requirements specified in GB/T 26572                  X: Indicates that the content of the hazardous substance in at least one homogeneous material of the part exceeds the limit requirements specified in GB/T 26572, but the part still complies with the specification of EU Directive 2011/65/EU. Note: The environmental protection period indicated on this product refers to the normal use conditions.             </small>							



HUANANZHI official website: <http://www.huananzhi.com/>  
National after-sales service line: 400-168-2992

Wechat scan code to follow the public number