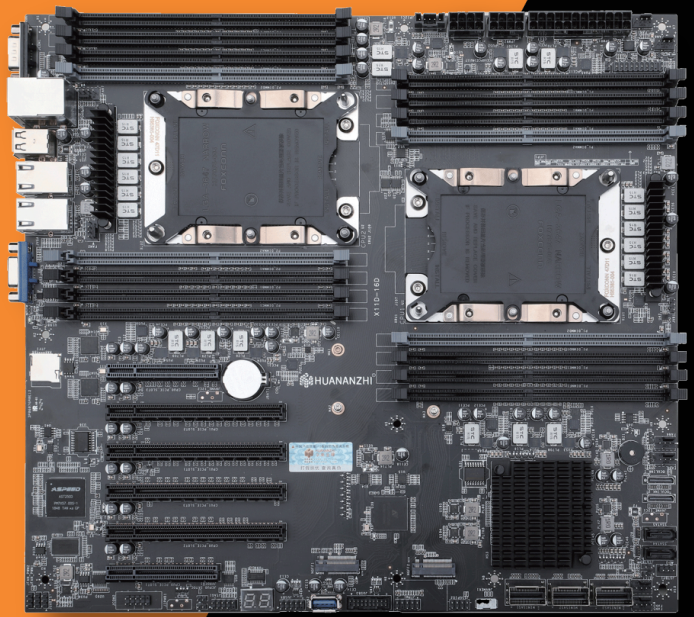
HUANANZHI®

SZ HUANAN SANXIAN TECHNOLOGY CO.,LTD.

WWW.HUANANZHI.COM

User Manual

# X11D-16D




HUANANZHI®

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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

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X11D-16D双路主板一片

2.SATA数据线 2根

3.I/O后挡板一块

4.保修卡一张



## 简介

### 特点介绍

CPU: 英特尔® LGA3647处理器 英特尔®至强™

RAM: 16*DIMM 最大支持2TB DDR4
2933/2666/2400/2133MHZ 非ECC.ECC内存
单U6通道
实际内存数据速率取决于CPU类型和DRAM模块

I/O接口: 14x SATA3.0(其中12个SATA需通过SAS SFF8087转SATA转接线转出 支持RAID 0/1/5/10)
2x USB2.0接口
2x USB3.0接口
1x VGA显示接口
1x COM接口
2x RJ45 网卡接口
1x IPMI管理接口

以 太 网: 2 x 英特尔I210千兆网口

扩展插槽: 4 x PCIe 3.0 x16
2 x PCIe 3.0 x8
1 x M.2 NVME PCIe 3.0X4 (key M)2280
1 x M.2 NVME PCIe 3.0X4 (key M)22110
2 x OCULink PCIE3.0X4

# 主板图解

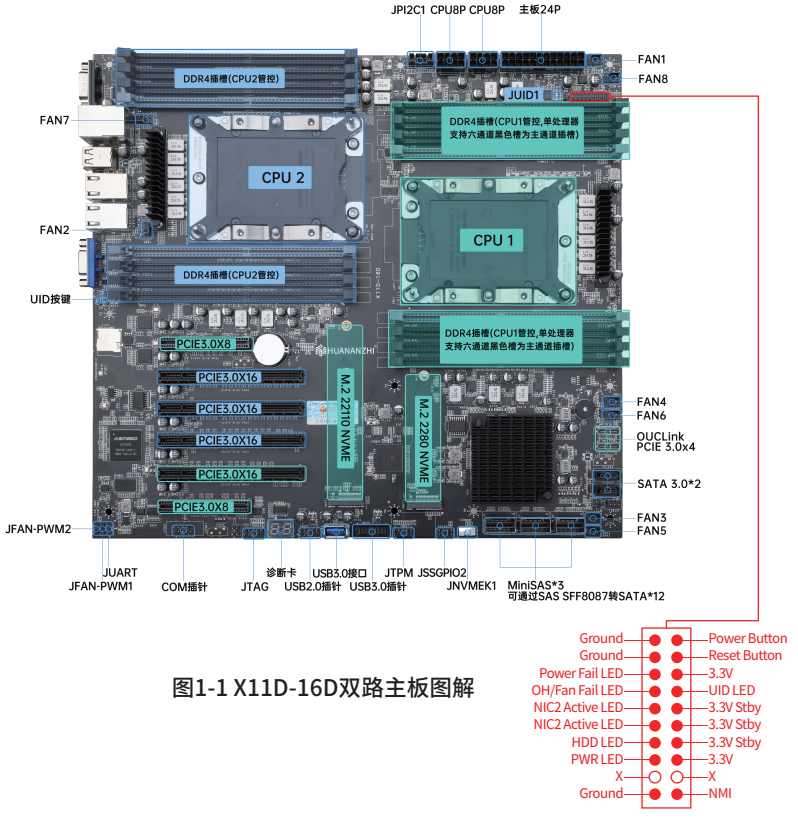



图1-1 X11D-16D双路主板图解

# 后置I/O面板

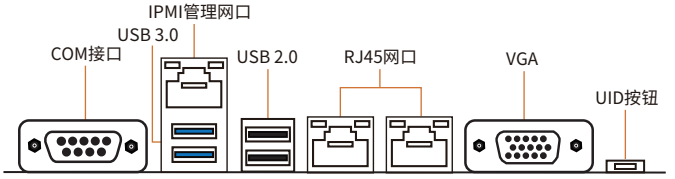



图1-2 整体后置I/O面板展示

| 连线/工作灯号 | |
|---|---|
| 状态 | 描述 |
| 关 | 网络未连接 |
| 黄色 | 网络已连接 |
| 闪烁 | 网络数据在使用中 |

| 速度灯号 | |
|---|---|
| 状态 | 描述 |
| 关 | 传输速率 10Mbps |
| 绿色 | 传输速率 100 Mbps |
| 橙色 | 传输速率 1 Gbps |

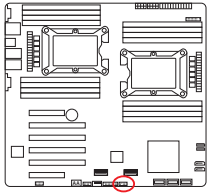
图1-3 LAN端口状态表

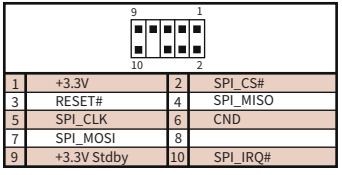
注:①X11D-16D主板规格为325*300MM E-ATX规格

②8个FAN插针，其中FAN2、FAN6为CPU风扇插针默认为温控模式UID不可控制调节，其余FAN插针为系统风扇插针，默认为温控模式可通过UID控制调节模式:10%、50%、100%.

# 安装与设置

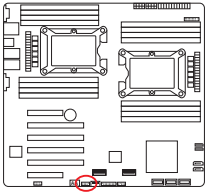
注意 请仔细查看主板，凡有表明“1”或是白色粗线标记的接脚均为1脚位置。

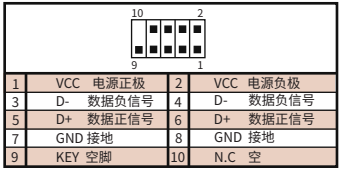




| | | | |
|---|---|---|---|
| 1 | +3.3V | 2 | SPI_CS# |
| 3 | RESET# | 4 | SPI_MISO |
| 5 | SPI_CLK | 6 | CND |
| 7 | SPI_MOSI | 8 | |
| 9 | +3.3V Stdby | 10 | SPI_IRQ# |

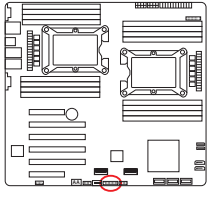
图2-1 TMP扩充接口

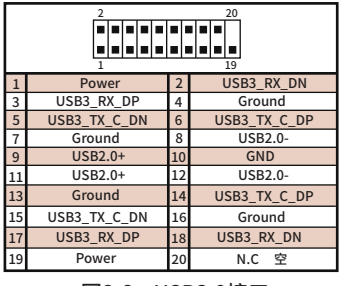




| | | | |
|---|---|---|---|
| 1 | VCC 电源正极 | 2 | VCC 电源负极 |
| 3 | D- 数据负信号 | 4 | D- 数据负信号 |
| 5 | D+ 数据正信号 | 6 | D+ 数据正信号 |
| 7 | GND 接地 | 8 | GND 接地 |
| 9 | KEY 空脚 | 10 | N.C 空 |

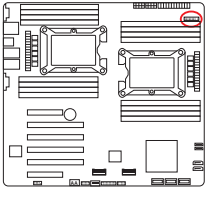
图2-3 USB扩充接口

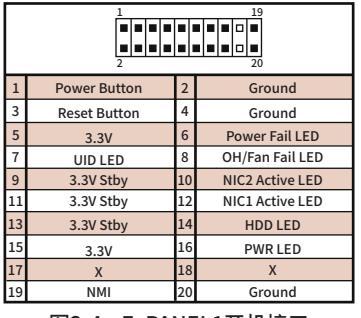




| | | | |
|---|---|---|---|
| 1 | Power | 2 | USB3_RX_DN |
| 3 | USB3_RX_DP | 4 | Ground |
| 5 | USB3_TX_C_DN | 6 | USB3_TX_C_DP |
| 7 | Ground | 8 | USB2.0- |
| 9 | USB2.0+ | 10 | GND |
| 11 | USB2.0+ | 12 | USB2.0- |
| 13 | Ground | 14 | USB3_TX_C_DP |
| 15 | USB3_TX_C_DN | 16 | Ground |
| 17 | USB3_RX_DP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

图2-2 USB3.0接口





| | | | |
|---|---|---|---|
| 1 | Power Button | 2 | Ground |
| 3 | Reset Button | 4 | Ground |
| 5 | 3.3V | 6 | Power Fail LED |
| 7 | UID LED | 8 | OH/Fan Fail LED |
| 9 | 3.3V Stby | 10 | NIC2 Active LED |
| 11 | 3.3V Stby | 12 | NIC1 Active LED |
| 13 | 3.3V Stby | 14 | HDD LED |
| 15 | 3.3V | 16 | PWR LED |
| 17 | X | 18 | X |
| 19 | NMI | 20 | Ground |

图2-4 F_PANEL1开机接口

- 如果你的IPMI在未接入网线的情况下，在此界面需等待2分钟左右
  您可以按Shift + Esc跳过此界面

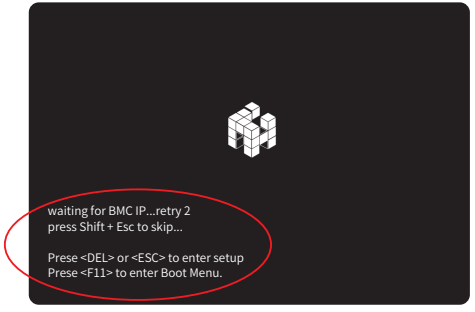
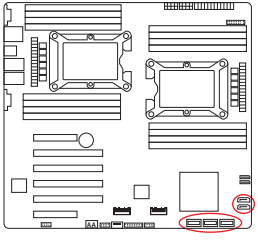
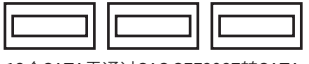



图2-5 IPMI检测IP界面





12个SATA需通过SAS SFF8087转SATA
转接线转出 支持RAID 0/1/5/10

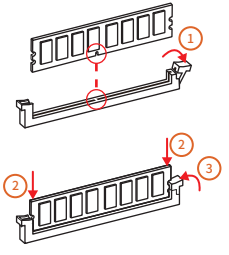
图2-6 SATA接口

- 打开浏览器输入https://xxx.xxx.xxx.xx(输入IPMI设定好的IP地址)

  默认账户：admin　　默认密码：admin

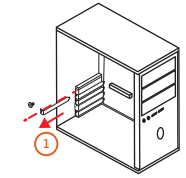



图2-7 IPMI登录

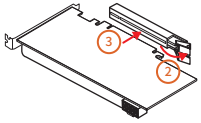



1. 将内存插槽两端的卡扣往外扳开，内存条与插槽的凸出位置做对应，确定安装的方向
2. 将内存条对准插槽，按下去
3. 让插槽两端的卡扣自动弹起来
4. 注：主板中的黑色内存插槽为主槽．灰色为副槽．内存安装顺序先插入主槽再插入相邻的副槽．单插副槽是无法过内存自检的。

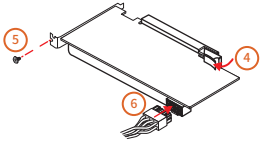
图2-8 内存安装



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2-9　显卡安装

Non-Fabric CPU和处理器（倒过来）

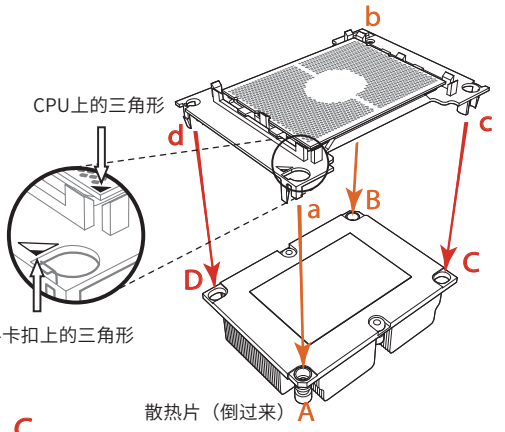
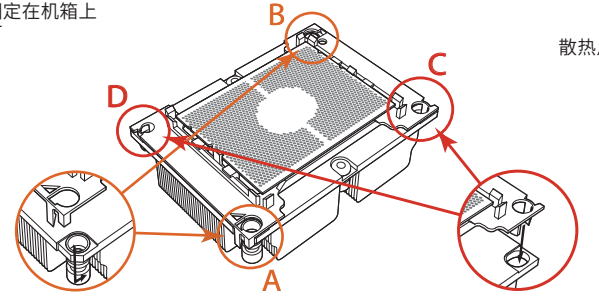



图2-10　CPU安装




注意:确保安装槽口插入到位

在（C，D）的位置上，将切口贴到散热器的安装孔上
在位置（A， B）上，凹槽卡在散热器的侧面

图2-11　CPU安装

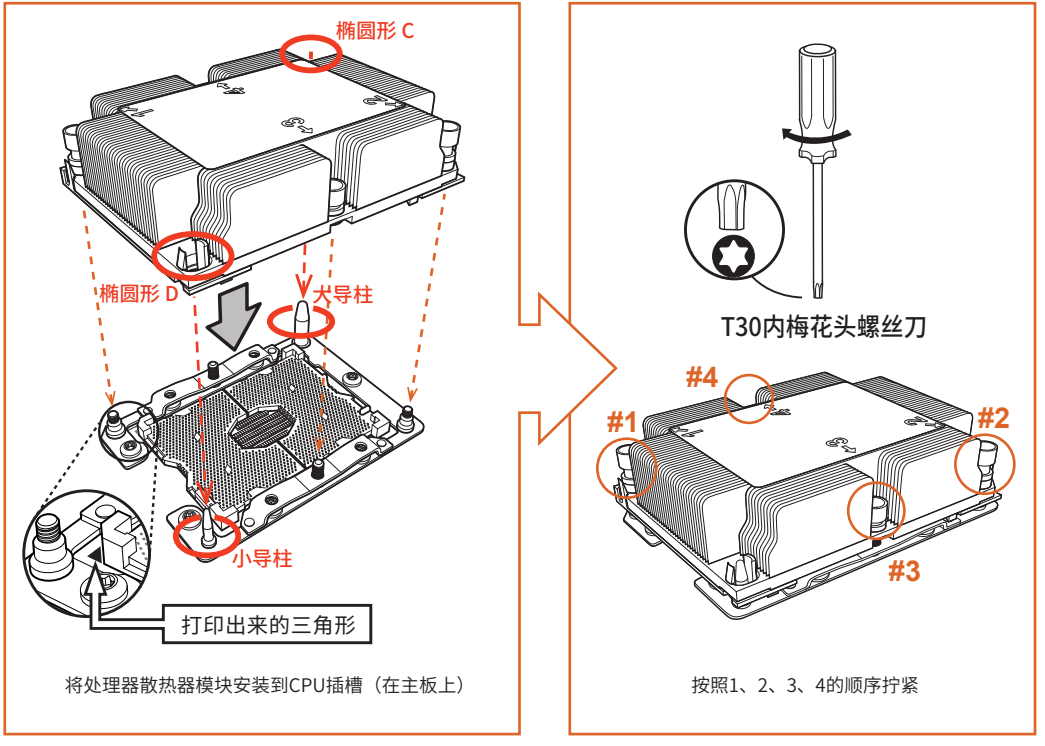

椭圆形 C
椭圆形 D
大导柱
小导柱
打印出来的三角形
将处理器散热器模块安装到CPU插槽（在主板上）
T30内梅花头螺丝刀
#4
#1
#2
#3
按照1、2、3、4的顺序拧紧

图2-12　CPU安装

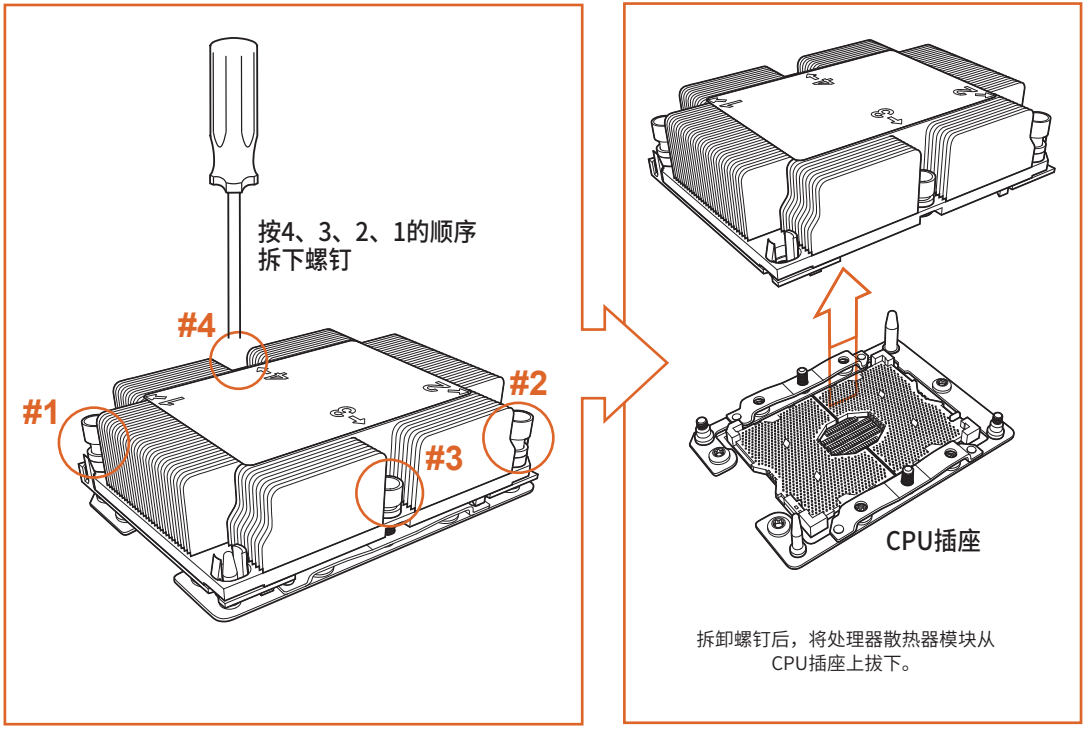



图2-13 CPU拆卸

# 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 |
| --- | --- | --- |
| X11D-16D Chipset Driver | Intel 芯片信息安装 | win7/win10 |
| X11D-16D LAN Driver | Intel 千兆网卡安装 | win7/win10 |

## 2.Intel 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

### 5.网卡驱动程序的安装

运行《驱动程序》:X11D-16D LAN DRIVER /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

## BIOS设置

以便电脑正常工作或执行特定的功能。CMOS SETUP会将各项数据储存在主板上内见的CMOS SRAM中。当电源关闭时,由主板上的电池继续为CMOS SRAM供电。电源开启后,当BIOS开始进行POST(Power On Self Test开机自检)时,按下“Delete”键便可--AMI BIOS的CMOS SETUP主画面中。主板热启动键“F11”。

菜单说明:请注意设置菜单中各项内容,如果菜单项左边有一个三角形的指示符号,表示选择了该项子菜单,将会有一个子菜单弹出来。

### 1.主菜单功能

| Main | Advanced | Platform Configurat | Socket Configuration | Server Mgmt | Security | boot | save&exit |
|---|---|---|---|---|---|---|---|

☆ Main

☆ System Overview(系统信息)

☆ Advanced
Advanced Settings(高级BIOS功能设置)
设置BIOS提供的特殊功能,例如病毒警告、开机引导磁盘优先等

☆ Platform Configurat(平台设置)
Advanced Chipest Settings(高级芯片组功能设置)

☆ Socket Configuration(CPU设置)
Set advanced CPU functions(CPU高级功能设置)

☆ Server Mgmt(IPMI管理)

☆ Boot
Boot Settings(启动设定)

☆ Security
Security Settings(BIOS密码设置)

☆ Save&Exit
Save Setting(保存设置)
Exit Options(退出设置)
退出设置包括载入优化缺省值/载入故障安全缺省值/放弃更改/不保存
退出

# DIRECTORY


Safety Precautions ..... 2

Packing ..... 3

Brief Introduction ..... 4

Motherboard Diagram ..... 5

Rear I/O panel ..... 6

Installation and Settings ..... 7

Drivers Installation ..... 17

BIOS Settings ..... 19




# SAFETY PRECAUTIONS

- Products could probably be damaged due to electrostatic discharge(ESD). Please follow these steps below for a success ful 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 the computer parts or even injury to the user.
- If you need any assistance in the process of installation, 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.

- 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 off to the ground and got damaged.
  Motherboard has clear signs of damage.

## Packing instructions

- 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 X11D-16D motherboard

2.SATA data cable

3.I/O shield back plat

4.Warranty Card



# BRIEF INTRODUCTION

### Features

CPU：Intel ® LGA3647 Processor Intel ® Xeon™

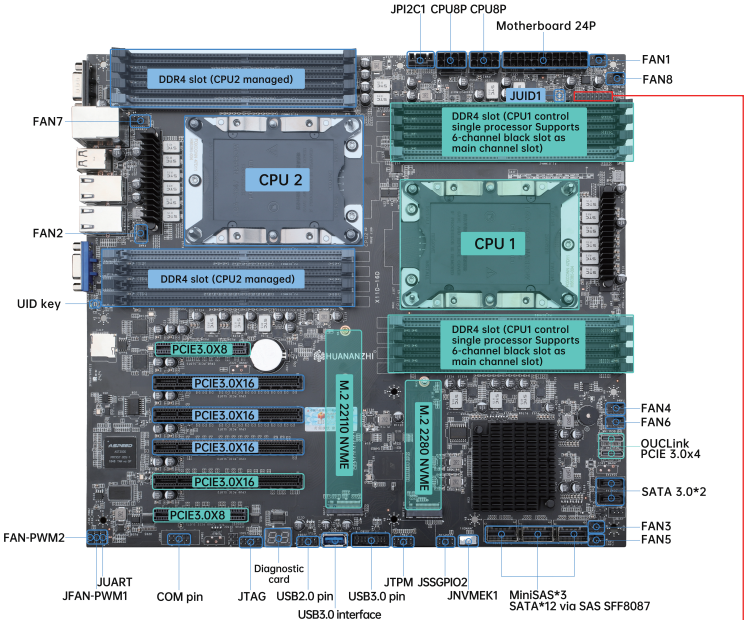
RAM： 16*DIMM supports up to 2TB DDR4
2933/2666/24000/2133MHZ Non-ECC.ECC memory
Single U 6 channels
Actual memory data rate depends on CPU type and DRAM module

I/O effects： 14 x SATA3.0(12 SATA nodes must pass SAS SFF8087RAID 0, 1, 5, and 10 are supported by SATA conversion cables)
2 x USB2.0 interface
2 x USB3.0 ports
1 x VGA Display Interface
1 x COM Display Interface
2 x RJ45 Nic interface
1 x IPMI management port

Ethernet: 2 x Intel I210-V Gigabit Port

Expansion slot： 4 x PCIe 3.0 x16
2 x PCIe 3.0x8
1 x M.2 NVME PCIe 3.0X4 (key M)2280
1 x M.2 NVME PCIe 3.0X4 (key M)22110
2 x OCULink PCIE3.0X4

# MOTHERBOARD DIAGRAM



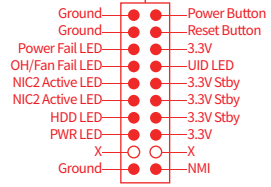




Figure 1-1 X11D-16D dual mainboard diagram

# THE REAR I/O PANEL

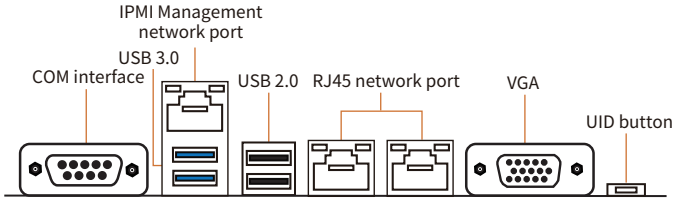



Figure 1-2 Rear I/O panel

| Connection/working light | |
|---|---|
| status | Description |
| close | Network not connected |
| yellow | Network connected |
| flicker | Network data is in use |



| Speed signal | |
|---|---|
| status | Description |
| close | The transmission rate is 10Mbps |
| green | The transmission rate is 100Mbps |
| orange | The transmission rate is 1 Gbps |

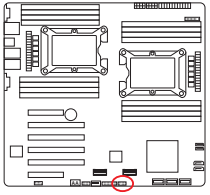
Figure 1-3 LAN port status table

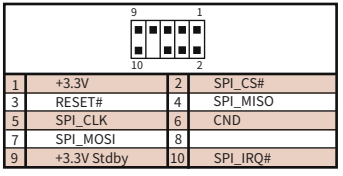
Note: (1) The X11D-16D mainboard specifications are 325*300MM E-ATX specifications

(2) Eight FAN pins. FAN2 and FAN6 are fan pins for the CPU Default temperature control mode UID cannot be controlled or adjusted, other FAN pins Is a fan pin of the system. The default temperature control mode can be controlled by UID Adjustment mode :10%, 50%, 100%..

# INSTALLATION AND SETUP

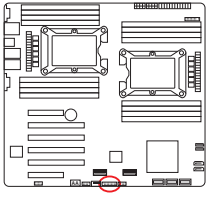
⚠ Pay attention Please look carefully at the motherboard, where there is a "1" or white thick line markpin is 1 position.

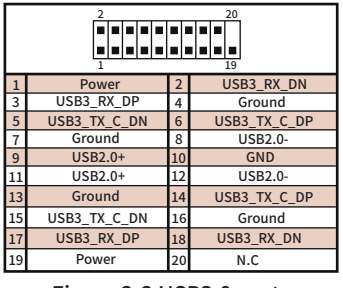




| | | | |
|---|---|---|---|
| 1 | +3.3V | 2 | SPI_CS# |
| 3 | RESET# | 4 | SPI_MISO |
| 5 | SPI_CLK | 6 | CND |
| 7 | SPI_MOSI | 8 | |
| 9 | +3.3V Stdby | 10 | SPI_IRQ# |

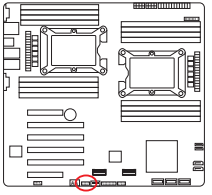
Figure 2-1 Extended TMP interface

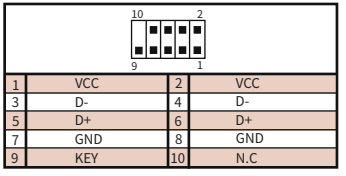




| | | | |
|---|---|---|---|
| 1 | Power | 2 | USB3_RX_DN |
| 3 | USB3_RX_DP | 4 | Ground |
| 5 | USB3_TX_C_DN | 6 | USB3_TX_C_DP |
| 7 | Ground | 8 | USB2.0- |
| 9 | USB2.0+ | 10 | GND |
| 11 | USB2.0+ | 12 | USB2.0- |
| 13 | Ground | 14 | USB3_TX_C_DP |
| 15 | USB3_TX_C_DN | 16 | Ground |
| 17 | USB3_RX_DP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

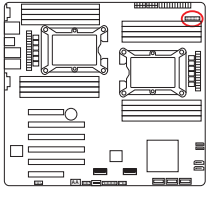
Figure 2-2 USB3.0 ports

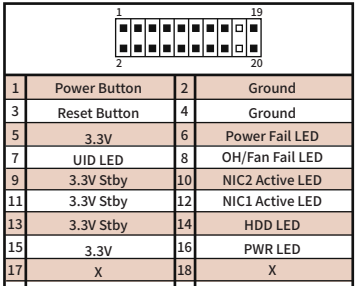




| | | | |
|---|---|---|---|
| 1 | VCC | 2 | VCC |
| 3 | D- | 4 | D- |
| 5 | D+ | 6 | D+ |
| 7 | GND | 8 | GND |
| 9 | KEY | 10 | N.C |

Figure 2-3 USB expansion port





| | | | |
|---|---|---|---|
| 1 | Power Button | 2 | Ground |
| 3 | Reset Button | 4 | Ground |
| 5 | 3.3V | 6 | Power Fail LED |
| 7 | UID LED | 8 | OH/Fan Fail LED |
| 9 | 3.3V Stby | 10 | NIC2 Active LED |
| 11 | 3.3V Stby | 12 | NIC1 Active LED |
| 13 | 3.3V Stby | 14 | HDD LED |
| 15 | 3.3V | 16 | PWR LED |
| 17 | X | 18 | X |
| 19 | NMI | 20 | Ground |

Figure 2-4 F_PANEL1 Boot port

- If your IPMI is not connected to a network cable, wait about 2 minutes on this screen, You can press Shift + Esc to skip this screen

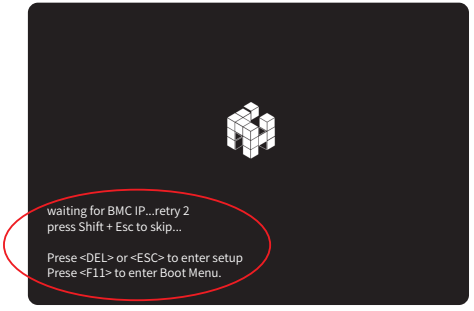
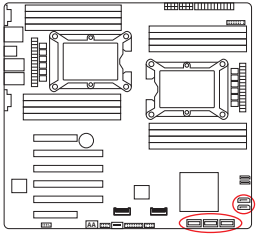
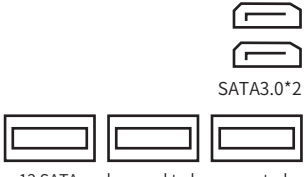



Figure 2-5 IPMI IP check page






12 SATA nodes need to be converted from SAS SFF8087 to SATA RAID 0, 1, 5, and 10 are supported

Figure 2-6 SATA ports

- Open your browser, type in https://xxx.xxx.xxx.xx(and enter the IPMI IP address.) **Default user: admin Default password: admin**

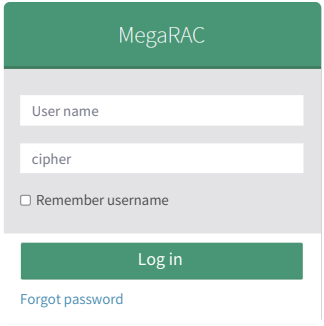
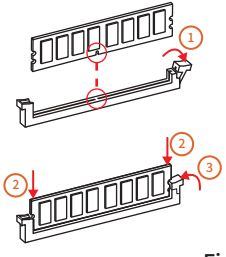
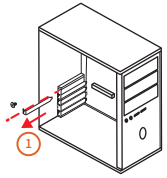



Figure 2-7 IPMI login

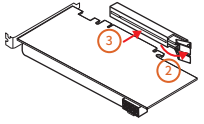



1. Open the latches at both ends of the memory slot. Determine the installation direction based on the projection position of the memory module
2. Align the memory module with the slot and press down
3. Let the latches at both ends of the slot automatically spring up
4. Note: The Black memory slot on the motherboard is the main slot. gray indicates secondary slots. Memory is inserted into the primary slot first and then into adjacent secondary slots. A single slot cannot pass the memory self-test.

Figure 2-8 Memory installation

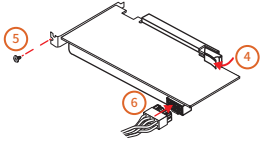


1. Remove the baffle plate and screws from the main box using a screwdriver



2. When installing the video card break the card tip of the card slot

3. Insert the video card into the video card slot



4. The card head will return utomatically after installation

5. Use screws to secure the graphics card to the chassis

6. Install the power cable

Figure 2-9 Video card installation

Non-Fabric cpus and processors (inverted)

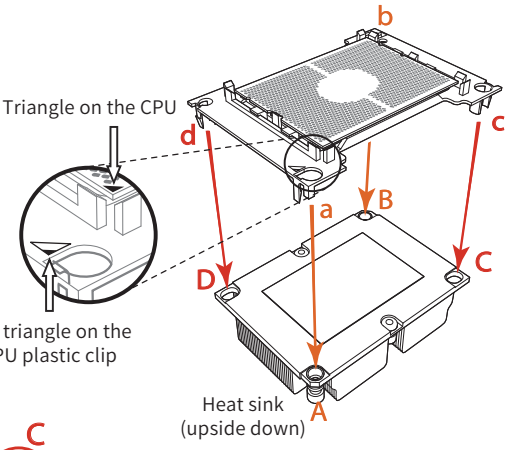
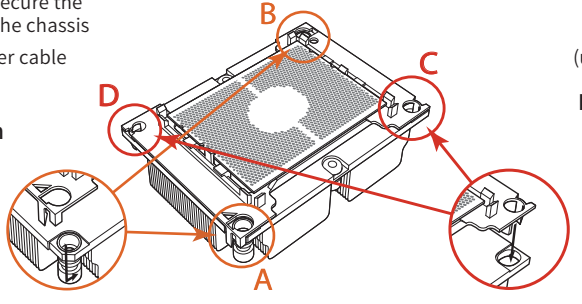



Figure 2-10 Installing a CPU




Note: Make sure the mounting notch is inserted in place

Attach the notch to the mounting hole of the radiator at position (C, D)
At position (A, B), the groove is stuck to the side of the radiator

Figure 2-11 Installing a CPU

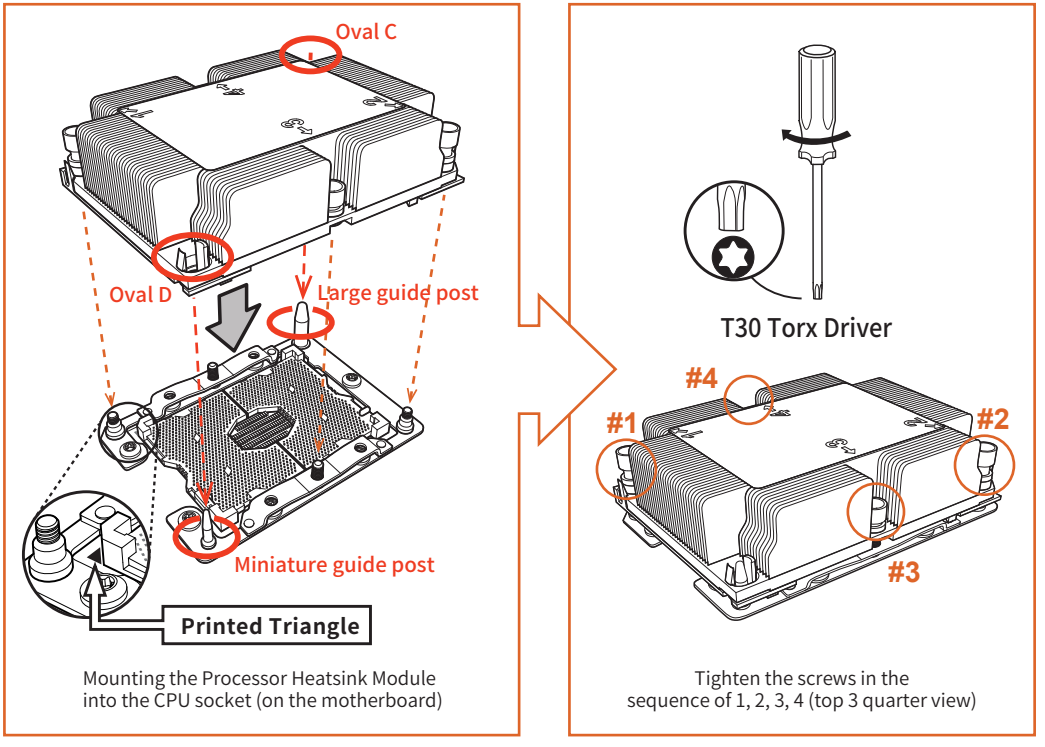



Figure 2-12 Installing a CPU

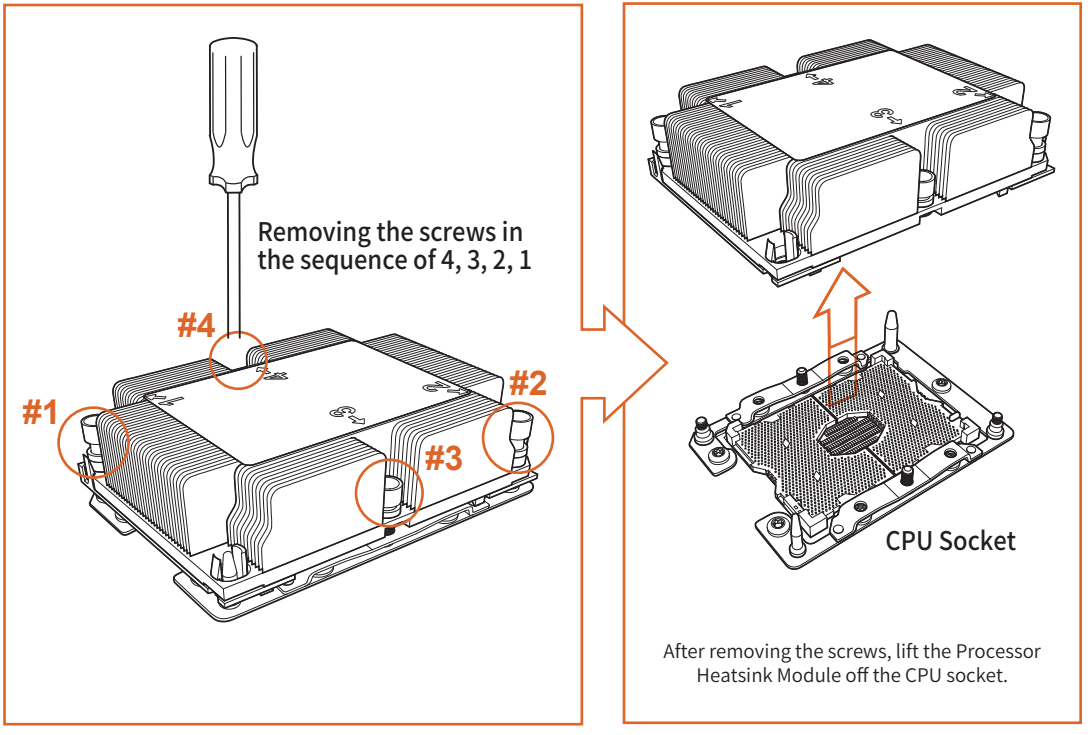



Figure 2-13 Removing a CPU

# Driver installation

## 1. Driver directory list:

| Driver directory | Driver specification | Applicable operating system |
|---|---|---|
| X11D-16D Chipset Driver | Intel chip information installation | win7/win10 |
| X11D-16D LAN Driver | Intel Gigabit nics | win7/win10 |

## 2. Install Intel chip information

Run: Control Panel - System - Hardware - Device Manager

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

Select: Properties - Update Drivers - Do not connect to the 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

### 5. Install the NIC driver

Run DRIVER: X11D-16D LAN driver /setup.exe

Click "Next" to continue

Select Install to perform the following installation

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

## BIOS Settings

In order for the computer to function properly or perform a specific function. CMOS SETUP stores the data in the CMOS SRAM embedded on the motherboard. When the power is off the battery on the motherboard continues to power the CMOS SRAM. After the Power is turned On, when the BIOS starts to perform the POST(Power On Self Test), press the "Delete" key - the CMOS SETUP main screen of the AMI BIOS. Hot boot button F11 on the mainboard.

Menu description: Please pay attention to the contents of the set menu, if there is a triangle indicator on the left of the menu item, indicating that the submenu is selected there will be a submenu pop up.

### 1. Main course menu function

| Main | Advanced | Platform Configurat | Socket Configuration | Server Mgmt | Security | boot | save&exit |
|---|---|---|---|---|---|---|---|

☆ Main

☆ System Overview

☆ Advanced
Advanced Settings
Set the special functions provided by the BIOS, such as virus warning and boot disk priority

☆ Platform Configurat
Advanced Chipest Settings

☆ Socket Configuration
Set advanced CPU functions

☆ Server Mgmt

☆ Boot
Boot Settings

☆ Security
Security Settings

☆ Save&Exit
Save Setting
Exit Options

Exit Settings include load optimization defaults/load fail-safe defaults/abandon
Change/do not save
Exit