



Chapter 3 Computer Related Products

Instruction

Unit 9 Motherboard Manual Reading Analysis



Learning Objectives

After you have read this unit, you should be familiar with:

1. The components of motherboard
2. The use of motherboard

Text

XP-K8U-X AMD Socket 754 Processor Motherboard

Product Introduction

The appearance of XP-K8U-X motherboard is shown in Figure 9-1.

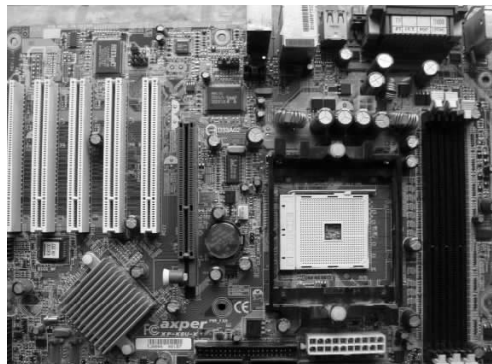


Figure 9-1 XP-K8U-X motherboard

The user manual provides steps related to quick installation. If you wish to view

complete product information, please select the appropriate icon. Open User Manual button located on the driver CD or link to our website at <http://www.axper.com> to received the most up-to-date information.

Safety Instructions

- (1) Always read the safety instructions carefully.
- (2) Keep this User Manual for future reference.
- (3) Keep this equipment away from humidity.
- (4) Lay this equipment on a reliable flat surface before setting it up.
- (5) The openings on the enclosure are for air convection hence protects the equipment from overheating. Do not cover the openings.
- (6) Make sure the voltage of the power source and adjust properly 110/220V before connecting the equipment to the power inlet.
- (7) Place the power cord such a way that people cannot step on it. Do not place anything over the power cord.
- (8) Always Unplug the Power Cord before inserting any add-on card or module.
- (9) All cautions and warnings on the equipment should be noted.

Feature Summary

FDD (Floppy Disk Drive Connector)

The FDD connector is able to connect a single floppy disk drive via an FDD cable. Usually, one edge of the FDD cable is marked in red, please attach this marked edge to position 1 on the connector.

IDE1 / IDE2 (IDE Connector)

The IDE connector is able to connect two IDE devices via an IDE cable and requires checking of the IDE jumper setting.

CPU_FAN (CPU Fan Power Connector) ; SYS_FAN (System Fan Power Connector)

The cooler fan power connector supplies a +12V power voltage via a 3-pin power connector and possesses a fool-proof connection design.

Most coolers are designed with color-coded power connector wires. A red power connector wire indicates a positive connection and requires a +12V power voltage. The black connector wire is the ground wire (GND).

Please remember to connect the power to the cooler to prevent system overheating and failure.

NOTE: *Please remember to connect the power to the CPU fan to prevent CPU overheating and failure.*

BAT(Battery)

The improper removal of the battery can result in harm. When replacing a battery, please make sure you use one that is of similar brand and model number.

For information related to battery specifications and precautions, please refer to the manufacturer instructions.

If you wish to delete the data stored in the CMOS, please follow the steps below:

- (1) Please turn off your computer and unplug the power.
- (2) Remove the battery from the motherboard.
- (3) Wait 10 minutes and then replace the battery onto the motherboard.
- (4) Plug in the power supply and turn on your system.

Hardware Installation

(1) Please make sure that the CPU used is supported by your motherboard.

(2) Please be aware of the placement position of the CPU. If the CPU does not insert properly, do not apply force but check the placement position.

(3) Please make sure that an even layer of heat sink paste is added between the CPU and the fan sink.

(4) Please do not turn on the power prior to installing the fan sink. Doing so can result in overheating and lead to permanent damage to the CPU.

(5) Please follow the CPU specifications when setting the frequency. It is not recommended that system speed settings exceed that of hardware specifications. If you wish to set your system speed to exceed the recommended specifications, please check your hardware specifications, e. g. CPU, graphics card, memory, hard drive.

Driver Installation

Driver installation for the Windows 2000/XP operating systems is simple. Once you insert the provided driver disks into your optical drive, the AUTORUN screen will appear. If this screen does not appear, you can use “D:\setup.exe” (with “D” being the specified drive) to bring up a wizard screen. Just follow the screen instructions to easily complete driver installation.

Words & Expressions

motherboard	[ˈmʌðəbɔ:d]	<i>n.</i>	底板; 母板; 主板
appropriate	[əˈprəʊpriet]	<i>adj.</i>	适当的
reference	[ˈrefərəns]	<i>n.</i>	参考; 参照; 涉及; 提及; 参考书目; 介绍信; 证书
		<i>v.</i>	引用

humidity	[hju:'miditi]	<i>n.</i>	湿度;湿气
enclosure	[in'kləʊʒə]	<i>n.</i>	附件;围墙;围场
overheating	[ˌəʊvər'hitiŋ]	<i>n.</i>	[热] 过热
voltage	[ˈvəʊltidʒ]	<i>n.</i>	[电] 电压
unplug	[ˌʌn'plʌg]	<i>vt.</i>	去掉……的障碍物;拔去……的塞子或插头
power cord			[电] 电源线
brand	[brænd]	<i>vt.</i>	铭刻于,铭记;打烙印于;印……商标于
		<i>n.</i>	商标,牌子;烙印
sink	[siŋk]	<i>vi.</i>	下沉;消沉;渗透
		<i>n.</i>	水槽;洗涤槽;污水坑
frequency	[ˈfrikwənsi]	<i>n.</i>	频率;频繁
optical	[ˈɒptikəl]	<i>adj.</i>	光学的;眼睛的,视觉的

Exercises

1. Answer the following questions according to the text.

- (1) What is FDD?
- (2) Why should we connect the power to the CPU fan?
- (3) How long do we need to replace the battery after we remove the battery from the motherboard?
- (4) Must CPU be supported by motherboard?
- (5) Will the “auto-run” screen appear when driver disk is inserted into the CD-ROM drive?

2. Translate the following terms or phrases from English into Chinese and vice versa.

- | | |
|---------------------------------|----------|
| (1) System Fan Power Connector | (6) 最新的 |
| (2) specifications | (7) 附加的 |
| (3) precautions | (8) 极端安全 |
| (4) CPU Fan Power Connector | (9) 用户手册 |
| (5) Floppy Disk Drive Connector | (10) 电源线 |

3. Fill in the blanks with the information given in the text.

- (1) The user manual provides steps _____ to quick installation.
- (2) Make sure the _____ of the power source and adjust properly 110/220V before connecting the equipment to the power inlet.
- (3) Most coolers are _____ with color-coded power connector wires.
- (4) For information related to battery specifications and precautions, please refer to the manufacturer _____.
- (5) Please make sure that an even _____ of heat sink paste is added between the

CPU and the fan sink.

4. Choose the best one from the items given below to complete the following passage.

Prior (1) the advent of the microprocessor, a computer was usually built (2) a card-cage case or mainframe with components connected by a backplane consisting of a set of slots themselves connected with wires; in very (3) designs the wires were discrete connections between card connector pins, but printed circuit boards soon (4) the standard practice. The Central (5) Unit, memory and peripherals were housed on individual printed circuit boards which plugged into the back plate.

- | | | | |
|------------------|---------------|------------|----------------|
| (1) A. to | B. with | C. at | D. for |
| (2) A. about | B. of | C. in | D. with |
| (3) A. new | B. old | C. early | D. young |
| (4) A. turns | B. turn | C. become | D. became |
| (5) A. Processor | B. Processing | C. Program | D. Programming |

5. Mark the following statements with T(true) or F(false) according to the text.

(1) The motherboard allows the humid environment.

(2) The openings on the enclosure are for air convection hence protects the equipment from overheating, but you may cover the openings.

(3) Make sure the voltage of the power source and adjust properly 220/440V before connecting the equipment to the power inlet.

(4) Always Unplug the Power Cord before inserting any add-on card or module.

(5) The FDD connector is able to connect a single floppy disk drive via a FDD cable.

6. Select the one answer to each question.

(1) Which of the following is not necessary before you begin to use the motherboard?

- _____
- A. Always read the safety instructions carefully
 - B. Keep this equipment away from humidity
 - C. Always unplug the Power Cord before inserting any add-on card or module
 - D. Understand the relevant information of the manufacture

(2) How many volts does the cooler fan power connector supply? _____

- A. +12V
- B. +24V
- C. +8V
- D. +36V

(3) What color is the ground wire? _____

- A. red
- B. black
- C. green
- D. white

(4) How long will you need to wait for when you replace the batteries? _____

- A. 5 minutes
- B. 10 minutes
- C. 15 minutes
- D. 20 minutes

(5) What steps should you follow if you wish to delete the data stored in the CMOS? _____

- A. Turn off your computer and unplug the power and remove the battery from the motherboard
 - B. Wait 10 minutes and then replace the battery onto the motherboard
 - C. Plug in the power supply and turn on your system
 - D. All the above
- (6) Which of the following doesn't belong to computer hardware? _____
- A. processor
 - B. video card
 - C. operating systems
 - D. RAM
7. Translate the following sentences into Chinese.
- (1) Place the power cord such a way that people cannot step on it. Do not place anything over the power cord.
- (2) The FDD connector is able to connect a single floppy disk drive via a FDD cable.
- (3) It is not recommended that system speed settings exceed that of hardware specifications.
- (4) Once you insert the provided driver disks into your optical drive, the AUTORUN screen will appear.

Reading Materials

Company Profile

Driving Human Progress with Intelligent Products

Nowadays, technology is increasingly changing people's lives and improving their living standards. EVOC, as a high-tech company, is providing high-quality central control device and technical support for various fields, such as transportation, industrial automation, energy, environmental protection, sports, medical care, electric power, banking, electronics, networking, telecom.

Company Roots

Founded in 1993, EVOC has already had 18 years of experience in the R&D, production and sales of embedded and industrial computing products. In 2003, EVOC Intelligent, one of EVOC's subsidiaries was successfully listed on the Hong Kong Stock Exchange (stock code: 02308). Now the company has established close and long-standing relationships with a large number of global clients.

Company Strengths

EVOC products, as an embodiment of innovation in the industry, have provided

over 10,000 users worldwide with high-quality custom products. EVOC boasts a largest R&D center for embedded technology, a largest R&D team and the biggest manufacturing base in the world. Cooperating with Intel, we have developed hundreds of embedded intelligent control products. Now EVOC is widely reputed for the high performance-cost ratio of its products, excellent after-sales services and technical support. EVOC products have become the first choice for a large number of users worldwide. According to CCID, EVOC Group is now ranked among top five in the world and emerging as one of the most competitive players in the embedded industry.

Global Scope

In 2008, EVOC established its international business department and started to explore overseas market. Today, EVOC is ready to share its embedded and industrial computing solutions as well as its sophisticated and reliable products with more partners in the international arena, and grow with them on the basis of mutual-benefits and win-win.

Unit 10 Hard Disk Manual Reading Analysis



Learning Objectives

After you have read this unit, you should be familiar with:

1. The components of hard disk
2. The use of hard disk

Text

Founder Mobile Hard Disk Instructions E-Series

NOTE:

(1) *While every effort in the process of the preparation of this manual is correct and complete, but it does not guarantee that any errors or omissions in this manual.*

(2) *Founder Technology Group Corporation only on the machine itself problems have the warranty and maintenance responsibility, for software misuse, maintenance or other unforeseen circumstances arising from the personal data deletion or loss, no responsibility, nor is responsible for therefore causing other indirect loss.*

(3) *The product software and hardware or instructions may change without notice, Founder Technology Group Corporation has the final say.*

Introduction

Thank you for your use of Founder removable storage devices. Founder mobile hard drive (Figure 10-1) is a portable external storage systems, this device is simple to use, hot-swappable, and supports both PC and MAC systems. Do not need to install drivers for the operating systems Windows 98 and above, the device uses Windows provides a standard Mass Storage protocol, plug and play, versatility, without host impact, thereby achieving the purpose of the data of mobile storage.



Figure 10-1 Founder mobile hard drive

Features

- (1) Reduction design to ensure the physical security of the storage device.
- (2) High-speed USB 2.0 interface, transfer rate up to 480Mb/s.
- (3) Windows 98 and above without driver, plug and play.
- (4) The low-power design, no external power to drive high-speed storage device.
- (5) Large-capacity cache, 8MB cache, 5,400RPM high-speed hard disk to ensure that high-speed data transmission.
- (6) Maximum read speed of 35MB/s, the maximum write speed of 30MB/s.

System Requirements

Hardware system

Founder PC or compatible desktop computer with a USB 2.0 interface, laptops and Apple computers with a USB 2.0 interface. The recommended configuration is as follows: the CPU Pentium III or above, the memory above 256MB hard disk capacity of not less than the 40GB.

Software system

- (1) the Windows 98 and above
- (2) Mac OS 9. x

Software Installation

Driver installation

If your system is Windows 98 and above, or MAC 9.0 and above, connect the removable hard disk, the computer will be prompted to find a new hardware and automatically install the driver. For other operating systems, computer users can go to Founder website (<http://www.foundertech.com>), and download the appropriate driver.

Panel Indicator

The side panel features diagram is shown in Figure 10-2 (for reference only).

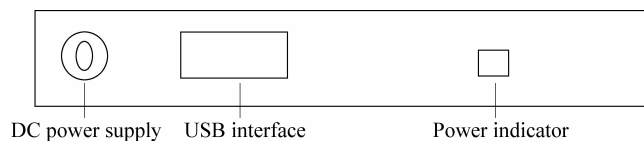


Figure 10-2 The side panel features diagram

CAUTION:

(1) *Before device is not formatted completely, don't unplug the hard drive to avoid damage to the hard disk to affect the service life of equipment.*

(2) *Please use the hard original data line, to avoid damage to the hard disk data line bad.*

(3) *Do not use the hard disk when the power supply voltage is unstable.*

(4) *Remove the hard drive before you unplug the hard drive.*

(5) *Mobile hard disk partition, preferably not more than two, otherwise it will increase the time of system to retrieve and use when the removable hard disk is started off.*

Manufacturer: Founder Technology Group Corporation

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Office address: Haidian District, Beijing, 298, Chengfu Zhongguancun Founder Building

Postal code: 100871

Founder full service hotline :4006-600-601

Company website: www.foundertech.com

Implementation of standards: Q/SKET04-2007

Words & Expressions

unforeseen	[ˌʌnfəˈsiːn]	adj.	未预见到的,无法预料的
portable	[ˈpɔːtəbl, ˈpəu-]	adj.	手提的,便携式的;轻便的
		n.	手提式打字机
hot-swappable			热插拔;热抽换;热抽拔
mass	[mæs]	adj.	群众的,民众的;大规模的,集中的
versatility	[vəːsətˈiliti]	n.	多功能性;多才多艺;用途广泛
cache	[kæʃ]	n.	高速缓冲存储器;储存物;隐藏处

laptop	[ˈlæptɒp]	<i>adj., n.</i>	[口语]笔记本电脑(的), (可放在膝上使用的)便携式的(电脑); 膝式的(电脑)
prompt	[prɒmpt]	<i>vt.</i>	提示; 促进; 激起
panel	[ˈpænl]	<i>n.</i>	仪表板
indicator	[ˈɪndɪkeɪtə]	<i>n.</i>	指示器; [化]指示剂; [计]指示符; 压力计
unplug	[ˌʌnˈplʌɡ]	<i>vt.</i>	去掉……的障碍物; 拔去……的塞子或插头
partition	[pɑːˈtɪʃən]	<i>n.</i>	划分, 分开; 分割; 隔墙; 隔离物
preferably	[ˈprefərəbli]	<i>adv.</i>	较好; 宁可, 宁愿; 更适宜

Exercises

1. Answer the following questions according to the text.

- (1) What kind of equipment is the removable hard disk?
- (2) What are the features of Founder mobile hard disk?
- (3) Which function does the mobile hard disk have on the side panel?
- (4) What should be noted when you use the mobile hard disk?
- (5) What needs does Founder mobile hard disk have on the hardware?

2. Translate the following terms or phrases from English into Chinese and vice versa.

- | | |
|-------------------------------|--------------|
| (1) mobile hard disk | (6) 低功耗 |
| (2) removable storage devices | (7) 大容量 |
| (3) DC power supply | (8) 便携式的(电脑) |
| (4) hot-swappable | (9) 便携式的 |
| (5) Mass Storage | (10) 电源指示灯 |

3. Fill in the blanks with the information given in the text.

(1) Founder mobile hard drive is a _____ external storage systems, this device is simple to use, hot-swappable, and supports both PC and MAC systems.

(2) Founder PC or compatible desktop computer with a USB 2.0 _____, laptops and Apple computers with a USB 2.0 _____.

(3) For other operating systems, computer users can go to Founder website (<http://www.foundertech.com>), and download the _____ driver.

(4) Device before _____ not complete, don't unplug the hard drive to avoid damage to the hard disk to affect the service life of equipment.

(5) Remove the hard drive before you _____ the hard drive.

4. Choose the best one from the items given below to complete the following passage.