
Chapter 1

Overview

The AX6F is a high-performance Pentium II (Klamath) based system board that utilizes the PCI/ISA architecture and **ATX** form factor. It integrates the Intel **82440FX** PCIsset, a **Ultra I/O controller**, and a PCI mode 4 enhanced IDE controller with bus master to enhance system performance. It has **four single in-line memory module (SIMM)** that allows memory up to a maximum of **512MB**. There is no second level cache onboard, since the cache is on the **Pentium II CPU card (connector SLOT1)**.

Another feature that AX6F has implemented is **CPU Thermal Protection**. A special circuit is under the CPU heatsink, when temperature is higher than 55 degree C, the CPU speed will automatically slow down and there will be warning from BIOS and also ADM (AOpen Desktop Manager, similar as Intel LDCM), if ADM is installed.

Overview

1.1 Specifications

Form Factor	ATX
Board Size	305 mm x 244 mm
CPU	Intel Pentium II (Klamath) Processor
System Memory	FPM (Fast Page Mode) or EDO (Extended Data Output) 72-pin SIMM x4 maximum 512MB.
Second-level Cache	On the CPU card (Slot1 connector)
Chipset	Intel 82440FX PCIset
Expansion Slots	ISA x4 and PCI x5
Serial Port	Two serial ports UART 16C550 compatible
Parallel Port	One parallel port supports standard parallel port (SPP), enhanced parallel port (EPP) or extended capabilities port (ECP).
Floppy Interface	Floppy interface supports 3.5 inches drives with 720KB, 1.44MB or 2.88MB format or 5.25 inches drives with 360KB, 1.2MB format
IDE Interface	Dual-channel IDE interface support maximum 4 IDE hard disks or CDROM, mode 4 , bus master hard disk drives.
USB Interface	Two USB ports supported by USB bracket, the BIOS also supports USB driver to simulate legacy keyboard.
PS/2 Mouse	Mini-Din PS/2 mouse connector onboard.
Keyboard	Mini-Din PS/2 keyboard connector onboard.
RTC and Battery	RTC within Super I/O controller. Battery is Lithium (CR-2032).
BIOS	AWARD Plug-and-Play Flash ROM BIOS
CPU Thermal Protection	Alarm and slow down CPU speed when temperature is high than 55 degree C.