

Chapter 1

Introduction

1-1 Product Specifications

❑ Processor

- Supports AMD Socket A Duron/Athlon processors
- Supports 200MHz (266MHz Internal System Bus)

❑ Chipset

- SIS 735 AGP chip

❑ DRAM Memory

- Two 184-pin DDR DIMM sockets support up to 1GB
- Supports PC-1600/PC2100 DDR SDRAM Modules

❑ Expansion Slots

- One Universal-AGP slot for both 2X/4XAGP (v2.0 compliant)
- Three 32-bit PCI slots (Rev 2.2 compliant)
- One P-CNR slot support modem and audio riser only

❑ Boot-Block Flash ROM

- Award System BIOS, supports PnP, APM, DMI, ACPI & Multi-device booting features i.e. floppy, LS120, CD-ROM, HDD (IDE, SCSI), ZIP-ATAPI etc.
- BIOS Wonder technology including ChipAway Virus, Flash BIOS Write Protect, Embedded Flash Utility.

❑ Embedded Ultra DMA-100 PCI IDE controller

- Supports two IDE ports up to 4 ATAPI devices
- Supports up to PIO Mode 4 up to 16.6MBps, Multi-Word Mode 4 up to 66MBps and Multi Word Mode 5 up to 100MBps with bus mastering
- Bus Master software drivers for all common multi-task operating systems

❑ Embedded Super I/O Functions

- Three UARTs support two serial ports and IR function for HPSIR and ASKIR
- One parallel supports SPP/ECP/EPP
- One floppy disk drive connector supports up to 2.88MB

❑ **Double Stack Back-Panel I/O Connectors with PC99 Colored Codes**

- PS/2 Mini-DIN keyboard and mouse ports
- Two Channel USB ports
- Two D-SUB 9-pin male serial port
- One D-Sub 15-pin female VGA port
- One D-SUB 25-pin female Printer port
- One D-SUB 15-pin female Game/MIDI port
- Audio Line-out, Line-in, Mic-in jacks

❑ **Embedded Audio Subsystem AC-link**

- Full-duplex operation for simultaneous recording and playback
- Built-in FM-emulation music synthesizer
- External high quality AC' 97 CODEC provides 90dB+SNR CD quality audio

❑ **Embedded USB Controller**

- USB host controller (UHCI v1.0 compliant) with Root Hub
- Support up to six USB ports
- Optional USB riser with 2 additional USB ports

❑ **Embedded System Monitoring Hardware Subsystem**

- 8 external voltage inputs for CPU Vcore, 2.5v, +12v, +5v and 3.3v (internal detecting) ,5v-stby,3.3v-stby,-12v
- 2 temperature sensor with thermistor for CPU and System
- 2 Fan speed (CPU and System) monitoring

❑ **Board Dimensions**

- Micro ATX form factor, 244mm x 220mm, 4 Layers

1-2 Product Feature

- Poly-fuse over-current protection with error warning for keyboard circuitry
- Complete Data Security:
 - * **Flash BIOS write protection** against unauthorized access
 - * **Trend ChipAway Virus** for a 100% virus free system boot-up
 - * **Embedded Flash Utility** ease the upgrade way and solve the incompatibility between flash type and flash utility
- Advanced Management Features:
 - * Power-on events:
 - WOL(Wake-on-LAN) network card, Modem ring, RTC Alarm
 - * Software power-off control for Win9x
 - * Over-ride power button
 - * Three states advanced Power-failure recovery: Always On, Always Off, Last state
 - * Blinking Power-LED in suspend

1-3 Package Contents

This product comes with the following components:

- ❑ One mainboard
- ❑ One 40-pin(80-wire) UDMA-100 IDE connector ribbon cable (Figure 1-1)
 - * **Color coded connection for UDMA-100 cable**
 - Blue to mainboard, Gray to Master and Black to slave
- ❑ One 34-pin floppy disk drive ribbon cable (Figure 1-2)
- ❑ One (optional) USB port with ribbon cable and bracket (Figure 1-3)
- ❑ One User's Manual
- ❑ One CD-ROM that includes
 - Acrobat Reader
 - Award Flash EPROM Utility
 - Award DMI Utility for DOS
 - SiS Bus Master IDE drivers for Win9X, WinNT4.0
 - SiS AGP VXD Driver
 - SiS USB Supplement
 - Audio Driver for DOS/Win95/98/ME/00/NT
 - Audio Utility for Win95/98/ME/00/NT
 - Optional Value Pack 2001 software group including Norton AntiVirus, AutoSave, ADOBE ActiveShare, Acrobat Reader, Iimage, X-stop, Appio and Ewalla.

📖 See the Readme.txt file in the CD-ROM's root directory for installation instructions of all driver and software utilities.



Figure 1-1 UDMA-100 IDE cable

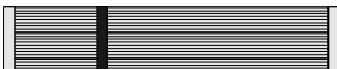


Figure 1-2 Standard Floppy cable

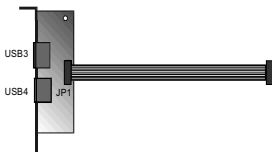
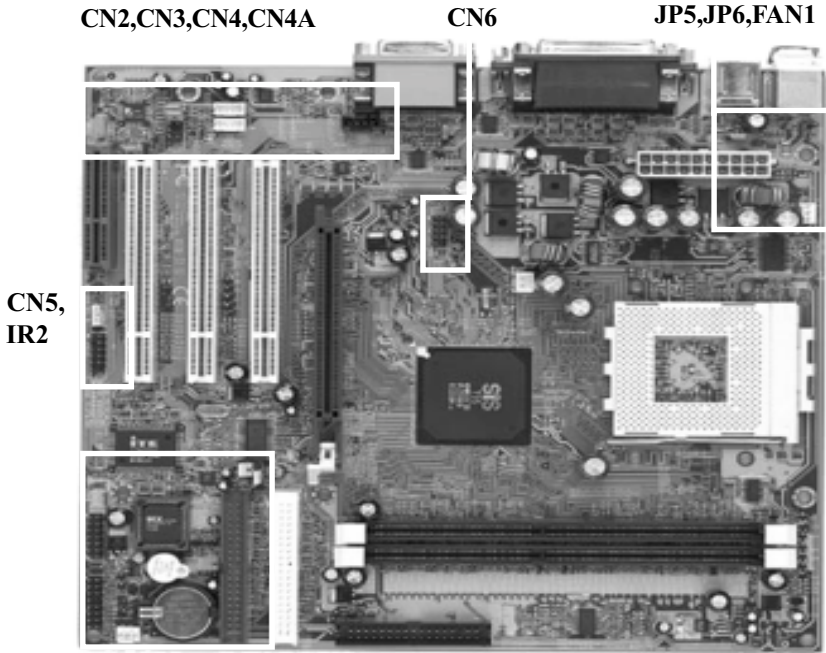
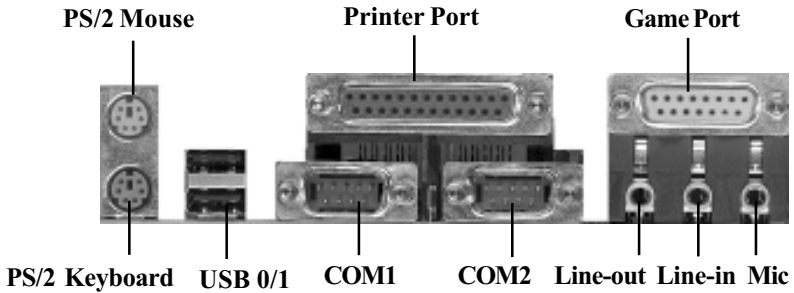


Figure 1-3 Optional USB Port cable adapter

1-3 Mainboard Layout



CN1,CN7,CN17
JP1,JP2A,JP2B,FAN2



1-4 Connector and Jumper Reference Chart

Jumper & Connector No.	Function	Page
JP1	Clear CMOS Data Jumper	9
JP2A/JP2B	External Clock Frequency	9
JP5	Power-on Keyboard	9
JP6	Power On By USB	9
CN1	Over-ride power button Connector	8
	Power indicator LED Connector	8
	System reset switch Connector	8
	Speaker Connector	8
	Green switch Connector	8
	IDE activity LED Connector	8
CN2	CD-ROM Audio in Connector	9
CN3	Auxiliary Audio-in Connector	10
CN4	Audio Mono -in/out Connector	10
CN4A	Front Panel Audio Connector	10
CN5	WOL (Wake-on-LAN) Connector	10
USB1/CN6	USB 0/1 Ports and USB 2/3 Connector	10
CN7	Smart Card Reader Connector	10
CN17	Blue LED Connector	11
IR2	IR/CIR Connector	11
FAN1/FAN2	CPU/System Cooling Fan Connectors	11
PT1	PS/2 Mouse and Keyboard Ports	11
PW1	ATX Power Supply Connector	7