

# Chapter 1

## Introduction

### 1-1 Product Specifications

#### ❑ Processor

- Supports AMD Socket A Duron/Athlon processors
- 200MHz transfer on K7 CPU address and data buses

#### ❑ Chipset

- SIS 730SE AGP chip with integrated **2D/3D** graphics controller

#### ❑ DRAM Memory

- Two 3.3V 168-pin DIMM sockets support up to 1GB
- Supports PC-100 SDRAM

#### ❑ Expansion Slots

- Two 32-bit PCI slots (Rev 2.2 compliant)
- One **ACR** slot

#### ❑ Optional PCI Riser Connector

- One PCI riser connector for low profile PC designs

#### ❑ 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.
- Includes Trend **ChipAway Virus** protection for virus-free boot and virus free operating system
- **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**

- Two 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, Japanese 3- Mode and 1Mbps transfer rate
- Supports Game/MIDI port for soft-audio

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

- PS/2 Mini-DIN keyboard and mouse ports
- Two Channel USB ports
- One 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 AC97 CODEC provides 90dB+SNR CD quality audio
- Use wavetable data on the system memory
- Hardware SoundBlaster Pro for Windows DOS box and real-mode DOS legacy compatibility
- Complete software driver support for Win95/98/2000

**❑ Embedded USB Controller**

- USB host controller (UHCI v1.0 compliant) with Root Hub
- Four USB ports with over-current protection
- 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

**❑ Embedded Graphic Accelerator**

- Integrated 128 bit 2D/3D Graphics Accelerator
- Support DVD playback
- Fully DirectX 7 compliant graphics
- Shared system memory area up to 64MB
- Support VESA DDC1,DDC2B&DDC3.0

## □ Board Dimensions

- Micro ATX form factor, 244mm x 194mm, 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
  - \* **Embbded 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) 9-pin Serial port ribbon cable with 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
    - SiS AGP Driver for Win9x/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 Serial Port cable (COM2)