

# Chapter 1

## Introduction

### 1-1 Product Specifications

#### □ Processor

- Supports AMD Socket A Athlon/Duron processors
- System clock supports 200/266MHz DDR (Double Data Rate)

#### □ Chipset

- VIA KLE133 + VT8231 two chip AGPset

#### □ DRAM Memory

- Two 3.3V 168-pin DIMM sockets support up to 1GB
- Supports PC-100, PC-133 SDRAM

#### □ Expansion Slots

- Three 32-bit PCI slots (Rev 2.2 compliant)
- One CNR slot support for modem, audio riser only
- One ACR slot support for modem, audio riser and LAN riser

#### □ 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

#### □ 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 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 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
- 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

❑ **Integrated Trident Blade3D AGP Graphics Engine**

- 64-bit Single Cycle 2D/3D Graphics Engine
- Supports 2 to 8 Mbytes of Frame Buffer
- Real Time DVD MPEG-2 and AC-3 Playback
- Integrated 24-bit 230MHz True Color DAC

❑ **Embedded System Monitoring Hardware Subsystem**

- 5 external voltage inputs
- 1 temperature sensor with thermistor for CPU
- 2 Fan speed (CPU and System) monitoring

❑ **Board Dimensions**

- Micro ATX form factor, 245mm x 210mm, 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 Win95
  - \* Over-ride power button
  - \* Three states advanced Power-failure recovery
  - \* **Blinking Power-LED** in suspend

## 1-3 Package Contents

This product comes with the following components:

- One mainboard
- One 40-pin Ultra DMA-66/100 IDE connector ribbon cable (Figure 1-1)
  - \* **Color coded connection for UDMA-66/100 cable**
    - Blue to mainboard, Gray to Master and Black to slave
- One 34-pin floppy disk drive ribbon cable (Figure 1-2)
- One User's Manual
- One CD-ROM that includes
  - Acrobat Reader
  - Award Flash EPROM Utility
  - Award DMI Utility for DOS
  - VIA Service Pack for Win9x/WinNT including Bus Master IDE drivers, AGP VxD and etc.
  - AGP Driver for Win9x/NT
  - Audio driver and utility for Win95/9x/2000, NT4.0 and Linux
  - Optional **Value Pack 2001** software group including Norton AntiVirus, AutoSave, ADOBE ActiveShare, Acrobat Reader, Imagemore, X-stop, Appio and Ewalla.

### Optional Items

- LTI-2 LCD/TV-out interface card
- Front Panel Audio jack
- USB Port Adaptor

☞ 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-66/100 IDE cable



**Figure 1-2** Standard Floppy cable

# ***Memo***