

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 + VT82C686B 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 AMR slot
- One ISA slot

□ 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

- Three UARTs support serial port and IR function
- 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 RJ-45 Ethernet connector
- 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

Integrated Trident Blade3D AGP Controller

- 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

Ⓡ **Optional Fast Ethernet 10/100 Controller**

- Realtek RTC8139C
- 10Mb/s and 100 Mb/s operation

❑ **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 215mm, 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.
 - VGA 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.
- @ See the Readme.txt file in the CD-ROM's root directory for installation instructions of all driver and software utilities.

Optional Items

- r LTI-2 LCD/TV-out interface card
- r COM 2 Port cable with bracket (Figure 1-3)
- r USB Port Adaptor



Figure 1-1 UDMA-66/100 IDE cable

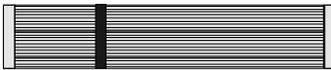


Figure 1-2 Standard Floppy cable

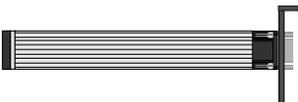


Figure 1-3 COM 2 Port cable (Optional)

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