

Chapter 1

Introduction

1-1 Product Specifications

❑ Processor

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

❑ Chipset

- AMD 761 + VIA VT8231 dual chip AGPset

❑ DRAM Memory

- Two 184-pin DDR DIMM sockets support up to 2GB
- Supports PC1600/PC2100 DDR SDRAM

❑ Expansion Slots

- One **CNR** slot (v1.0 compliant) for low cost modem solution.
- One Universal-AGP slot for both 2X/4XAGP at 3.3v or 1.5v (v2.0 compliant)
- Five 32-bit PCI slots (Rev 2.2 compliant)
- One **ACR** slot

❑ 2Mb 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
 - ⊗ Trend ChipAway Virus is a rule-based anti-virus technology and does not require periodical updates of virus code

❑ 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 Mode 4 up to 66MBps and Multi Word Mode 5 up to 100MBps with bus mastering
- Bus Mastering software drivers for common multi-task operating systems

❑ Onboard Ultra I/O

- Two UARTs support one serial port and IR function for HPSIR, FIR and ASKIR
- One parallel supports SPP/ECP/EPP
- One floppy disk drive connector supports up to 2.88MB, Japanese 3-Mode, and 1Mbps transfer rates

❑ Double Stack Back-Panel I/O Connectors

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

❑ Optional PCI Audio Subsystem

- CMedia 8738 audio chip w/ legacy audio SB16/Pro compatible
- Advanced 64-voice wavetable synthesizer
- Full-duplex operation for simultaneous recording and playback
- 4 or 6 (optional) channel speaker audio support is easy to build up a Home Theater environment
- (Optional) SFDIF supports for Fiber Optic module for Internet music, PC, and MD connections

❑ Optional PCI Audio Subsystem

- Full-duplex operation for simultaneous recording and playback
- AC'97 CODEC provides 90dB+ SNR CD quality audio using wavetable data on the system memory
- Built-in FM-emulation music synthesizer
- Complete software driver support for Win95/98/2000

❑ Embedded System Monitor Hardware

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

❑ Embedded USB Controller

- UHCI compliant USB host controller with Root Hub
- Four USB ports (UHCI v1.0 compliant)
- Optional USB riser with additional 2 USB ports

❑ Board Dimensions

- ATX form factor, 305mm x 230mm, 4 Layers

❑ Advanced Management Features

- Poly-fuse protection for USB and 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** to ease BIOS upgrade and eliminate in compatibility with the flash utility version.
- 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

❑ Switching Power Supply Requirement

Output Voltage	Max. Regulation Requirement	Min. Current Requirement (Amps)
+12V	+/- 5%	5.5
+5V	+/- 5%	20
+3.3V	+/- 5%	15
-5V	+/- 10%	0.5
-12V	+/- 10%	0.5
+5VSB	+/- 5%	0.75

Table 1-1



3.3V at 15Amps is necessary too guarantee full loading operation because some AGP cards and memory modules have high current consumption.

1-2 Package Contents

This product comes with the following components:

- ❑ One mainboard
- ❑ One 40-pin (80-wire) UDMA-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)
- ❑ Optional 6 Channel Audio Adapter card with cable (Figure 1-3)
- ❑ One User's Manual
- ❑ One CD-ROM that includes
 - Acrobat Reader
 - Award Flash Utility
 - Award DMI Utility for DOS
 - VIA audio driver and utility for DOS/Win9x/NT
 - VIA LAN driver for DOS/Win9x/Win2000/NT
 - VIA Service Pack for Win9x/WinNT including Bus Master IDE drivers, AGP VxD and etc.
 - Optional **Value Pack 2001** software group including Norton AntiVirus, AutoSave, ADOBE ActiveShare, Acrobat Reader, Imagemore, X-stop, Appio and Ewalla.



Figure 1-1 UDMA-66/100 IDE cable

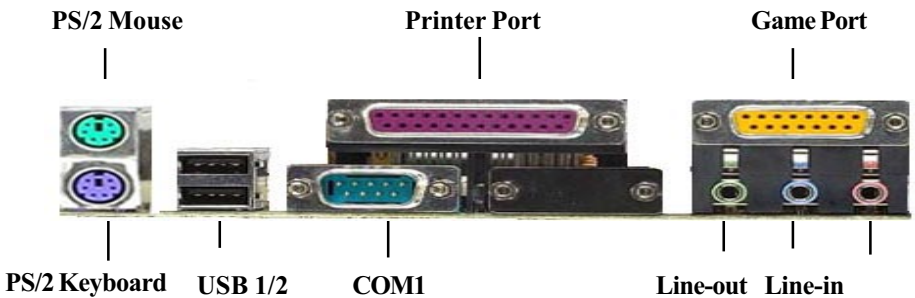
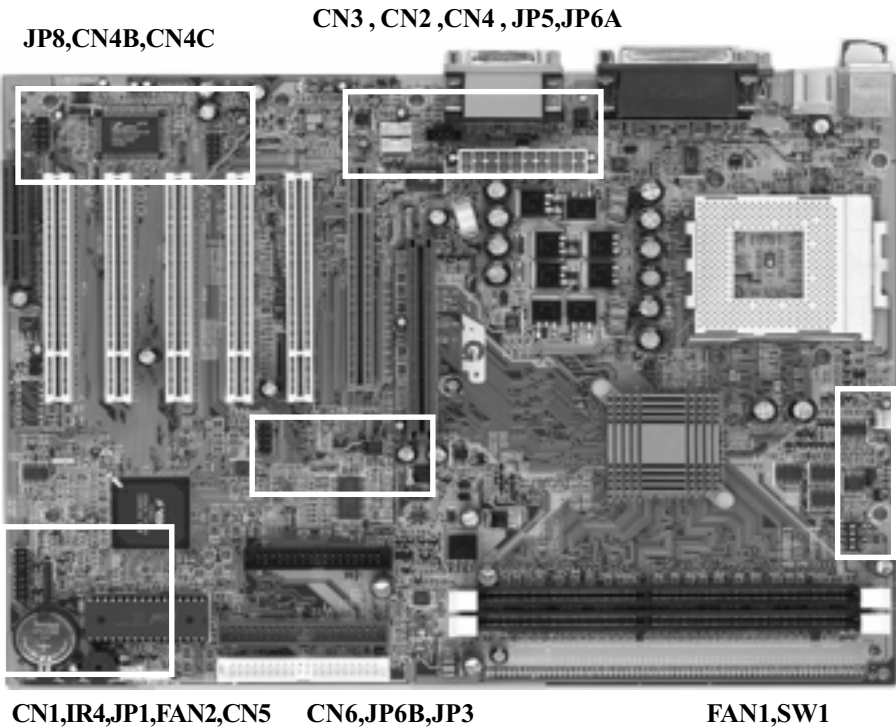


Figure 1-2 Standard Floppy cable



Figure 1-3 (Optional) 6 Channel Audio Adapter card

1-3 Mainboard Layout



1-4 Connector and Jumper Reference Chart

Jumper & Connector No.	Function	Page
JP1	Clear CMOS Data	13
JP3	CPU Bus Frequency	13
JP5	Power-On By Keyboard	13
JP6A	Power-On By USB 0/1	14
JP6B	Power-On By USB 2/3	14
JP8	Onboard Audio	14
CN2	CD-ROM Audio-in	15
CN3	Auxiliary CD-ROM Audio-in	15
CN4	Audio Mono -in/out (Optional)	15
CN4B	Bass/Center and Rear L/R Connector	16
CN4C	Optional SPDIF-in/out Connector	16
CN5	WOL (Wake-on-LAN) Connector	11/16
SW1	External Clock frequency Jumper	14
USB1/CN6	USB Ports and USB 3/4 Connector	17
IR4	FIR connector	17
FAN1/FAN2	CPU/System Cooling Fan Connectors	17
PT1	PS/2 Mouse and Keyboard Ports	15
PW1	ATX Power supply Connector	10