

Introduction

1-1 Product Specifications

❑ Processor

- Supports up to 550 MHz Intel Dual **Pentium® II/III** processors
- Dual Slot 1 CPU socket with retention mechanism
- High efficiency **Switching Power Module** (1.8v ~ 3.5v, 0.1v increments)
- Supports 66/100 MHz system clock speeds
- Innovative **SeePU** technology (software CPU installation with no jumper settings)



Supports 75/83/103/112/133 MHz system clock for over-clocking possibility. Refer to Section 2-3 for overclocking details.

❑ Chipset

- Intel **82440BX** two chip PCIs

❑ DRAM Memory

- Four 3.3V 168-pin DIMM sockets support up to 512 MB
- Supports 16/32/64/128MB, 64/72-bit unbuffered Synchronous DIMM modules
- Provides single-bit ECC capability



PC 100 certified SDRAM DIMM modules with SPD are required for 100MHz frequency clock speed



Because 128MB unbuffered DIMM and Registered DIMM modules are not yet mainstream, their compatibility can not be 100% guaranteed. (See Section 2-5 for details.)

❑ Expansion Slots

- One 32-bit AGP slot (Rev 1.0 compliant)
- Four 32-bit PCI slots (Rev 2.1 compliant)
- Two 16-bit ISA slots (one PCI/ISA shared slot)

❑ BIOS

- Award System BIOS, supports PnP, APM, DMI & 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



The Trend ChipAway Virus is a rule-based anti-virus technology and does not require periodical updates of virus code

❑ **Two Ultra DMA-33 PCI IDE Ports**

- Supports up to PIO Mode 4, Multi-word Mode 2 and Ultra DMA-33 timings
- Bus Mastering software drivers for all well known multi-task operating systems

❑ **On-board Ultra I/O**

- WB W83977TF/EF I/O chip (built-in AMI KBC software and RTC)
- One Parallel (SPP/ECP/EPP) and two Serial (16550A compliant) ports
- One floppy disk drive connector supports up to 2.88MB, Japanese 3-Mode, and 1Mbps transfer rates
- IrDA IR function supports up to 115.2Kbps

❑ **On-board PCI Audio Subsystem**

- **Yamaha** audio chip (YMF740)
- Built-in original OPL3 FM synthesizer
- **Advanced Wavetable Synthesizer** using wavedata on system memory. (32-voice channels, **Sonduis-XG** software support, **DLS** (Downloadable Sound) Level 1, Microsoft **Direct Sound/Direct Music** hardware acceleration)
- Supports full duplex operation and 3D effects

❑ **Two Channel USB Ports**



Now under compatibility testing with different peripherals

❑ **Board Dimensions**

- ATX form factor, 305mm x 250mm, 6 Layers
- Nine mounting holes

❑ **Advanced Management Features**

- Software power off control, Power-on by modem, Power on by alarm, Power-on by keyboard, Over-ride power button, Power failure recovery, Chassis intrusion detection, Blinking LED in Suspend(optional), **Wake Up On LAN**, etc.
- **Poly-fuse** for over-current protection
- Flash BIOS protect via BIOS
- Double-height I/O connector for rapid system installation
- Supports **SB-link** header for Creative PCI audio cards
- Supports On-board Management Extension Hardware and includes system monitoring software to streamline PC management
- Meets EPA Green PC standard: power consumption under 30W in Doze, Standby, and Suspend modes
- **ACPI** features ready

❑ Switching Power Supply Requirement (at least 200 Watts)

Output Voltage	Max. Regulation Requirement	Min. Current Requirement (Amps)
+12V	+/- 5%	0
+5V	+/- 5%	1
+3.3V	+/- 5%	10*
-5V	+/- 10%	0
-12V	+/- 10%	0
+5VSB	+/- 5%	0.75

Table 1-1

- * 3.3V at 10Amps is necessary to guarantee full loading operation because some AGP cards and memory modules have high current consumption.
- ✎ The on-board regulator provides voltage of 3.3v to the chipset to improve the compatibility of IDE devices.

1-2 Package Contents

This product comes with the following components:

- ☐ One mainboard and one User's Manual
- ☐ On-board Dual Slot 1 retention mechanism
- ☐ One 40-pin IDE connector ribbon cable (Figure 1-1)
- ☐ One 34-pin floppy disk drive ribbon cable (Figure 1-2a) or (Figure 1-2b)
- ☐ One CD-ROM that includes
 - Award Flash EPROM Utility, Award DMI Utility
 - Audio Driver and Utility
 - Intel Bus Master IDE drivers for Win95, WinNT, and OS/2
 - Exclamation Mark Remover Utility
 - System Health Monitoring Software
 - Trend **PC-cillin** Anti-virus v3.0(OEM version) utility in eight different languages



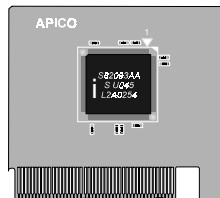
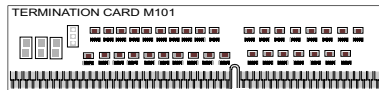
Figure1-1



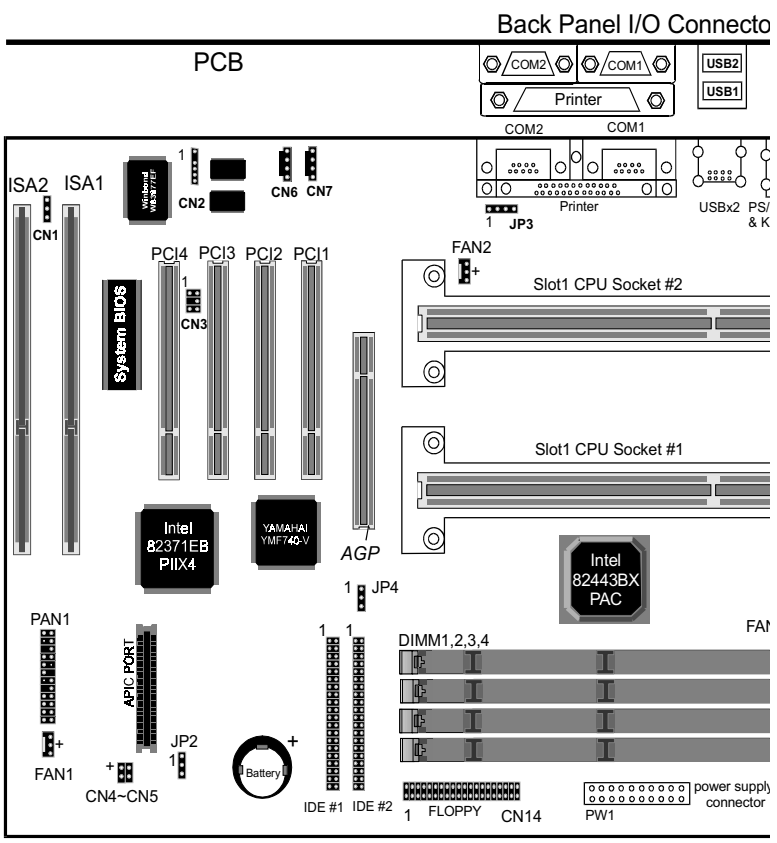
Figure1-2a



Figure1-2b



1-3 Mainboard Layout



1-4 Connector and Jumper Reference Chart

Jumper & Connector No.	Function	Ref. page
CN1	WOL (Wake-on-LAN) Connector	14
CN2	Infrared connector	14
CN3	Creative's SB-LINK connector	17
CN4/CN5	External volume control connector	17
CN6	CD-ROM audio in connector	17
CN7	Auxiliary audio in connector	17
PAN1	Green switch connector	13
	Green LED connector	13
	System reset switch connector	13
	Turbo LED connector	13
	Keyboard lock & power indicator LED connector	12
	Speaker connector	13
	IDEactivity LED connector	13
	Over-ride power button connector	12
PW1	ATX power supply connector	11
JP1	Chassis intrusion monitoring connector	18
JP2	Clear CMOS data jumper	15
JP3	Modem in connector	16
JP4	External clock frequency jumper	15
JP5	Power on by keyboard jumper	15
FAN1	System cooling fan connector	14
FAN2/FAN3	CPU cooling fan connector	14
Port	APIC Port	16
Ports	PS/2 mouse and keyboard ports	16
Ports	USB (Universal Serial Bus) ports	18