


Contents:






Chapter 1

1. Specification.....	2
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Chapter 2 Hardware Configuration

 1. Layout Placement	3
2. Jumper Setting	4
3. CPU Quick Index	6
4. ALS120 Introduction.....	7

Chapter 3 BIOS Setup

Section 1. Main menu	9
 Section 2. Standard CMOS Setup	11
 Section 3. BIOS Features Setup	13
 Section 4. Chipset Setup/Integrated Peripherals Features Setup.....	16
 Section 5. Power Management Setup.....	22
 Section 6. PnP/ PCI Configuration Setup.....	26

Chapter 1

1. Specification

@Chipset : INTEL 82443 BX AGP set.

@CPU : INTEL PENTIUMII CPU at 233MHz~450MHz (SLOT1).

*Host bus frequency: 66MHz / 100MHz.

@Four 168 pin DIMM sockets to support (8 , 16 , 32 , 64 , 128 or 256MB) 3.3V EDO DRAM or SDRAM.

@Switching Voltage Regulator.

@Optional GL518SM : with Digital Temperature Sensor , Thermal Watchdog ,
Voltage Monitors, Fan Speed Monitors & ON / OFF Control.

@Supports one AGP slot, three ISA slots and three PCI slots.

*Accelerated Graphics Port Supports AGP 66MHz / 133MHz (2X) .

@Dual Master IDE connectors support up to four IDE devices.

@Dual channel Ultra DMA / 33 Bus Master IDE ports (Support up to 4 IDE devices and LS-120MB Floppy
Drive) Support:

*PIO Mode 3&4.

*DMA Mode 2.

*Ultra DMA / 33.

@Supports USB Connector.

@Supports PS/2 keyboard and mouse connector.

@One FDC port supports two devices up to 2.88MB.

@Supports IrDA TX / RX header.

@Supports ACPI.

@When you set up your clock at 100MHz, Please use RAM Module : SDRAM under –8 or include –8 (80NS).

@Highly-integrated plug and play audio subsystem for IDE CD-ROM.

@Subsystem control logic.

@Built-in 3D Sound Effect Processor.

@Digital to analog and analog to digital conversions.

@Mixer functions.

@Built-in ALSFM Synthesizer.

@Enhanced Game/MIDI port support.

@ALS120 fully supports the ISA Plug and Play standard. For non-ISA Plug and Play compatible systems, a software utility “ISA Configuration Utility” (ICU) is available that sets the IRQ and DMA addresses.

2. Jumper Setting

J12: CPU Voltage Frequency Ratio Jumper Setting

Ratio Jumper	X3.0	X3.5	X4.0	X4.5	X5.0	X5.5	X6.0
J12	1 2	1 2	1 2	1 2	1 2	1 2	1 2

J24: ROM size

J25: Flash ROM Type Voltage

J22: CMOS Clear Function Select

Jumper	2M	1M
J24	1	1

Jumper	+12V	+5V
J25	1	1

Jumper	Normal	Clear CMOS
J22	1	1

JP1: CPU Clock Generator Jumper Setting

Jumper	66MHz	100MHz or Auto
JP1		





JP404、JP405 : Sound Line Out / Speaker Setting

	LINE OUT	SPK OUT
JP404	1 3 5	1 3 5
JP405	OFF	1

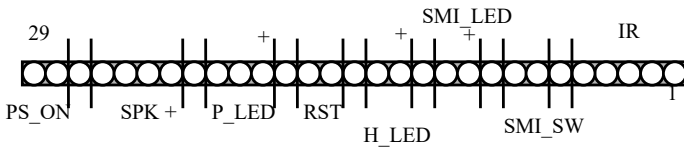
J403: MIC Mono/Stereo

	J403
Mono	
Stereo	

J404、J405: Sound Disable/ Enable

	SOUND CHIPS DISABLE	SOUND CHIPS ENABLE
J404		
J405		

J25: Other Jumper Setting



Other Jumper Setting

JP6	CHA FAN
JP7: SB-LINK PCI Sound Card connector	SB-LINK connector can support Creative-compatible PCI sound card. If you have a Creative-compatible PCI sound card installed, it is necessary to link the card to SB-LINK connector for compatibility issue under DOS environment.
J11	Up: PS/2 Mouse port Down: Keyboard port
J13	ATX Power Connector
J14	CPU FAN
J16: EISCA Cooler	External Thermal Sensor & Temperature Controller. Note: EISCA (Enhanced Intelligent System Cooler Architecture)
J17	COM1
J18	COM2
J19	LPT Connector
J20	FDD Connector
J21: LAN_WAKEUP	By using a network card that supports this feature and a network management software (such as ADM), you can wake up a system through a local area network.
U26	AGP Slot
U27	USB Connector

JP401	CD AUDIO IN (MITSUMI)
JP402	CD AUDIO IN (IDE1)

3. CPU Quick Index

CPU TYPE	PRINTING	MHz	MUL / BUS	J12	JP1
Pentium® II 233 MHz	233MHz	233	X3.5 / 66	1-2&7-8	CLOSE
Pentium® II 266 MHz	266MHz	266	X4.0 / 66	3-4&5-6&7-8	CLOSE
Pentium® II 300 MHz	300MHz	300	X4.5 / 66	3-4&7-8	CLOSE
Pentium® II 333 MHz	333MHz	333	X5.0 / 66	5-6&7-8	CLOSE
Pentium® II 350 MHz	350MHz	350	X3.5 / 100	1-2&7-8	OPEN
Pentium® II 400 MHz	400MHz	400	X4.0 / 100	3-4&5-6&7-8	OPEN
Pentium® II 450 MHz	450MHz	450	X4.5 / 100	3-4 & 7-8	OPEN
Pentium® !!! 450 MHz	450MHz	450	X4.5 / 100	3-4 & 7-8	OPEN
Pentium® !!! 500 MHz	500 MHz	500	X5.0 / 100	5-6 & 7-8	OPEN

CPU TYPE	PRINTING	MHz	MUL / BUS	J12	JP1
Pentium® Celeron 266 MHz	266MHz	266	X4 / 66	3-4&5-6&7-8	CLOSE
Pentium® Celeron 300 MHz	300MHz	300	X4.5 / 66	3-4&7-8	CLOSE
Pentium® Celeron 300A MHz	300MHz	300	X4.5 / 66	3-4&7-8	CLOSE
Pentium® Celeron 333 MHz	333MHz	333	X5 / 66	5-6&7-8	CLOSE
Pentium® Celeron 366 MHz	366MHz	366	X5.5 / 66	7-8	CLOSE
Pentium® Celeron 400 MHz	400MHz	400	X6 / 66	1-2&3-4&5-6	CLOSE

4. ALS120 Introduction

The ALS120 Integrated Audio Subsystem is a single chip designed for plug and play specification which minimizes support and installation issues. This highly-integrated plug and play audio subsystem for IDE CD-ROM interface incorporates the following functions:

- Subsystem control logic.
- Built-in 3D Sound Effect Processor.
- Digital to analog and analog to digital conversions.
- Mixer functions.
- Built-in ALSFM Synthesizer .
- Enhanced Game/MIDI port support.
- The ALS120 fully supports the ISA Plug and Play standard. For non-ISA Plug and Play compatible systems, a software utility “ISA Configuration Utility” (ICU) is available that sets the IRQ and DMA addresses. Sound card implementations designed around the ALS120 are completely jumper and switch free.

Input/Output Connections

Phonejacks, connectors, and headers are used to connect other devices to the sound cards. A phonejack is a single hole receptacle for a phoneplug and headers and connectors are multi-hole receptacles for multi-pin plugs. The Mainpeaker Out, Line Out, Line In, and Microphone In connections are phonejacks, the Game/MIDI Port is a D-shell 15-pin connector, and the Wavetable, CD-ROM audio, CD-ROM data/external controller connections are headers of various sizes.

Speaker Out - The Speaker Out phonejack provides the built-in power amplifier outputs for the left and right stereo channels. The power amplifier has a maximum output power of two watts per channel with four ohm speakers.

Line In - The Line In phonejack is used to attach monaural or stereo devices such as a cassette, Digital Audio Tape, or Minidisc players for playback, mixing, or recording.

Mic In - The Microphone In phonejack is used to attach a monaural microphone for live audio input for playback, mixing, or recording.

Game/MIDI Port - The Game/MIDI Port connector is used to attach a joystick for game interaction or to attach an external MIDI device for playback, mixing, or recording.

ATAPI IDE/Sony CD-ROM Audio - The ATAPI IDE/Sony CD-ROM Audio connector is used to connect the audio cable from either an ATAPI IDE or Sony CD-ROM drive for playback, mixing, and recording.

Mitsumi CD-ROM Audio - The Mitsumi CD-ROM Audio connector is used to connect the audio cable from a Mitsumi CD-ROM drive for playback, mixing, or recording. Only one of the two CD-ROM audio connectors may be used at a time.