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REMARK

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Chapter 1

Motherboard Feature Introduction

SPECIFICATIONS

System Chipset	Intel® 440BX chip set , ALi 513X
CPU Bus Speed	Pentium® /III 66/100 MHz CPU
CPU Clock	200MHz ~ 550MHz
Memory Subsystem	Expandable to 768MB(3 banks) with 168-Pin SDRAM(DIMM) Socket X3
AGP Slot	AGP Interface Specification Rev 1.0 Compliant
	Two high speed 16550 compatible serial ports, one Multi-Mode Parallel Port fixed SPP/EPP/ECP standard
	Two PCI Bus master Ultra DMA/33 IDE port (up to 4 IDE Devices)
Integrated I / O	Support two 360KB / 720KB / 1.2MB / 1.44MB / 2.88MB / floppy disk driver
	Support LS120 drives & ZIP 100 Drives
	One PS/2 Mouse port
	Support two USB ports
	Support IrDA TX / RX header

	2MB Award PnP BIOS with enhanced ACPI feature for PC98 compliance.	
BIOS	Supports Trend ™ChipAway AntiVirus.	
2.00	DMI feature support	
	Support secondary device boot	
Evnancion clot	Three 32-bit PCI Slots & One 16-bit ISA Slots	
Expansion slot	Support 3.3/5V PCI 2.1 bus Interface	
	Suspend LED on/off	
	Win95 soft power off	
EXTRA Function	External SMI	
	Wake up by ring	
	Wake on Lan	
On Board	One Line Out, One Line In	
ESS1898 Sound Chip	One MIC, One Game port	
Others	Windows 95 Compatible	
Dimension	Micro ATX size (244 x 180mm), 4-layer PCB	

POWER OFF CONTROL SOFTWARE

The motherboard design supports software power off Control feature through the SMM code in the BIOS under Win95 operating system environment. It is Micro ATX form factor and you should use ATX power supply.

First, you should connect the power switch cable (provided by the ATX/AT case Supplier) to the connector [PB_BT] on the motherboard. In the BIOS screen of "POWER MANAGEMENT SETUP", choose "User Defined"(or min power saving or Max power saving) in "POWER MANAGEMENT" and choose "Yes" in "PM Control by APM".

In Windows 95 the "SHUT DOWN" option, the computer's Power will switch off automatically and put the PC in a suspend mode. This will be indicated by a bunking power light. To restart the system, simply press the Power Button.

PACKAGING CHECK LIST

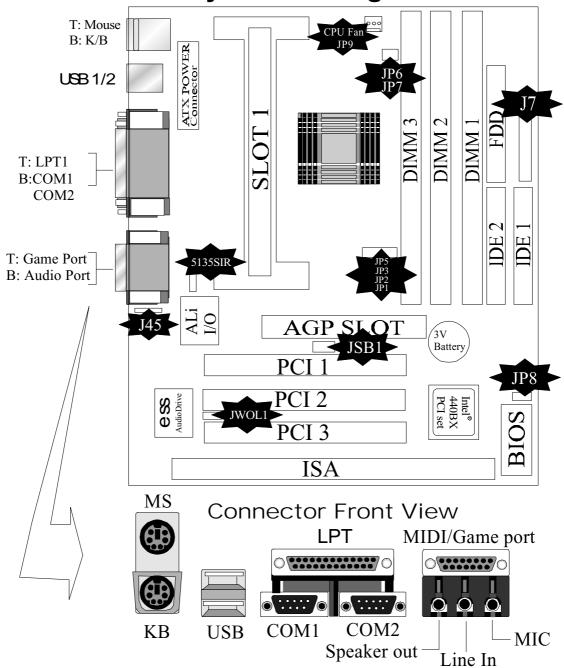
The motherboard comes securely packed in a gift box and shipping carton. If any of the above items are missing or damaged, please contact your supplier.

The motherboard contains:

Q'TY			Description
1	Motherboard	:	B785
1	Driver	:	CD-Title
1	Cable	:	FDD. IDE. Connector
1	Manual	:	User's manual

Chapter 2 Setup Guide

Motherboard Layout Drawing



Jumper & Connector Setting

CONNECTOR SETTING

PS1- Keyboard Connector

Pin	Description
1	Keyboard Data
2	NC
3	GND
4	VCC
5	Keyboard CLK
6	Mouse Data
7	N.C.
8	Ground
9	+5V
10	Mouse Clock

J88 - ATX Power Supply Connector

JUU - AIX I OWEI C	apply collificator
Pin	Description
1,2,11	+ 3.3 V
3,5,7,13,15,16,17	Ground
4,6,19,20	+ 5 V
8	POWER GOOD
9	5VSB
10	+12 V
12	-12 V
14	PS-ON
18	- 5 V

LPT1 - Printer Connector

Pin	Signal Name	Pin	Signal Name
1	Strobe-	14	AFD
2	Data Bit 0	15	Error
3	Data Bit 1	16	INIT
4	Data Bit 2	17	SLCTIN
5	Data Bit 3	18	GND
6	Data Bit 4	19	GND
7	Data Bit 5	20	GND
8	Data Bit 6	21	GND
9	Data Bit 7	22	GND
10	ACK	23	GND
11	Busy	24	GND
12	PE	25	GND
13	SLCT	26	GND

COM1,COM2 –Serial Connectors

Pin	Signal Name	Pin	Signal Name	
1	DCD	6	DSR	
2	SIN	7	RTS	
3	SOUT	8	CTS	
4	DTR	9	RI	
5	GND	10	NC	

J3 - Universal Serial Bus (USB) Connectors

USB1 Pin	Signal Name	USB2 Pin	Signal Name
1	USB VCC 0	1	USB VCC 1
2	USB Data -	2	USB Data -
3	USB Data +	3	USB Data +
4	USB GND 0	4	USB GND 1
5	GND	5	GND

5135SIR - Infrared Connector: IR

Pin	Signal Name
1	VCC
2	NC
3	IRRX
4	GND
5	IRTX

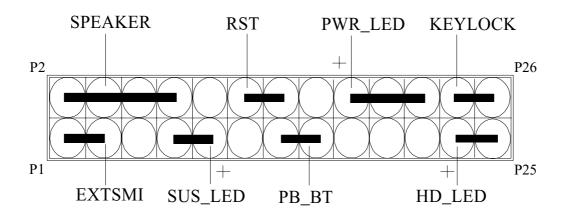
JS1-ESS1898 Sound Chip

JS1	Description
2-3	Disabled
1-2	Enabled

J45-CD_IN

PIN	Name
1	L
2	GND
3	GND
4	R

J7 - OTHER JUMPER SETTING



Pin	Name	Description
1-3	EXTSMI	Suspend mode
7-9	SUS _ LED	Suspend mode LED
13-15	PB _ BT	Power buttem
23-25	HD – LED	Hard Disk LED
2-8	SPEAKER	Speaker
12-14	RST	Reset buttom
18-22	PWR - LED	Power LED
24-26	KEYLOCK	Key Lock

JP8 - CMOS Clear

JP8	Description	
1-2	Normal (default)	
2-3	Clear CMOS	

CPU TYPE Select

CPU Bus Speed - 66MHz part :

1. 233MHz

JP1	JP2	JP3	JP5	JP6	JP7
Short	Open	Open	Short	Short	Short





2.266MHz

JP1	JP2	JP3	JP5	JP6	JP7
Short	Short	Short	Open	Short	Short





3.300MHz

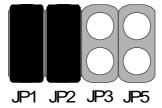
JP1	JP2	JP3	JP5	JP6	JP7
Short	Open	Short	Open	Short	Short





4.333MHz

JP1	JP2	JP3	JP5	JP6	JP7
Short	Short	Open	Open	Short	Short





5. 366MHz

JP1	JP2	JP3	JP5	JP6	JP7
Short	Open	Open	Open	Short	Short





6. 400MHz

JP1	JP2	JP3	JP5	JP6	JP7
Open	Short	Short	Short	Short	Short





7. 433MHz

JP1	JP2	JP3	JP5	JP6	JP7
Open	Open	Short	Short	Short	Short





8. 466MHz

JP1	JP2	JP3	JP5	JP6	JP7
Open	Short	Open	Short	Short	Short





9. 500MHz

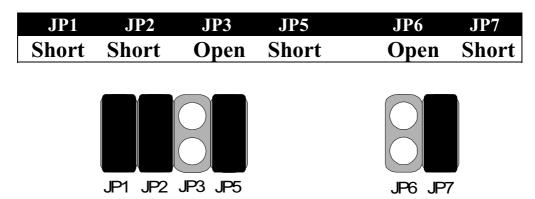
JP1	JP2	JP3	JP5	JP6	JP7
Open	Open	Open	Short	Short	Short



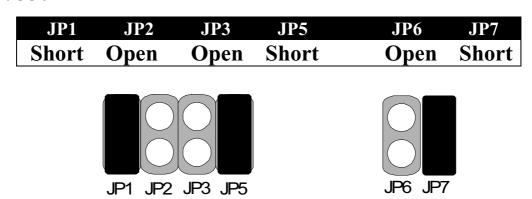


CPU Bus Speed - 100MHz part :

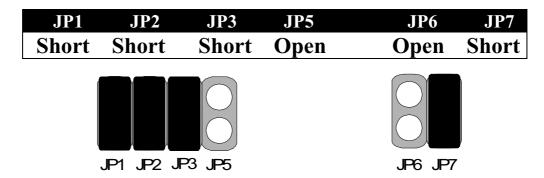
1.300MHz



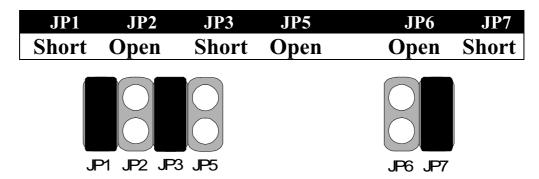
2.350MHz



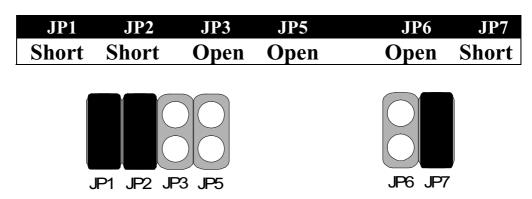
3.400MHz



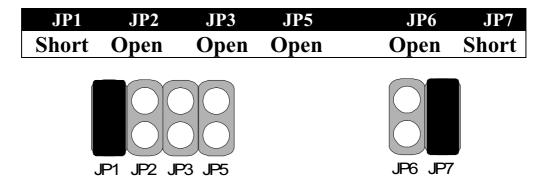
4.450MHz



5.500MHz



6.550MHz



CPU TYPE SELECTION LIST

JP1~JP5 (For RATIO select)

RATIO	JP1	JP2	JP3	JP5
3.0	Short	Short	Open	Short
3.5	Short	Open	Open	Short
4.0	Short	Short	Short	Open
4.5	Short	Open	Short	Open
5.0	Short	Short	Open	Open
5.5	Short	Open	Open	Open

JP6 (For BUS clock)

CLOCK	JP6
66 MHz	Short
100 MHz	Open

JP7 (CPU BUS Clock manual / Auto detect)

CLOCK	JP7
Default (Auto Detect)	Short
Force BUS CLOCK up to 100 MHz	Open

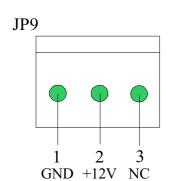


Short



Open

FAN CONNECTOR



JP9: This fan is used in CPU COOL FAN.

MEMORY INSTALLATION

No jumper setting is necessary for DRAM setting, BIOS will check DRAM type and size automatically. This motherboard contains 2 by 168-pin DIMM socket (DIMM1, DIMM2, DIMM3). This motherboard has table-free (or auto-bank) feature and user can install DIMM into any bank. The three DIMMs Sockets for system memory expansion from 8MB to 768MB. Each bank provides 64-bit wide data path. You can install 100MHz SPD RAM or 66MHz SD RAM into this motherboard, select by your CPU clock.

NOTE: Samples of System Memory Combinations Options

DIMM1	DIMM2	DIMM3	TOTAL
8MB			8MBytes
	8MB		8MBytes
		8MB	8MBytes
8MB	8MB		16MBytes
	8MB	8MB	16MBytes
8MB		8MB	16MBytes
16MB			16MBytes
	16MB		16MBytes
		16MB	16MBytes
8MB	8MB	8MB	24MBytes
16MB	8MB		24MBytes
16MB		16MB	32MBytes
16MB	16MB		32MBytes
		32MB	32MBytes
	32MB		32MBytes
32MB			32MBytes
8MB	16MB	16MB	40MBytes
32MB	32MB		64MBytes
	32MB	32MB	64MBytes
64MB			64MBytes
64MB	64MB		128MBytes
	64MB	64MB	128MBytes
128MB	128MB	128MB	384MBytes
:	:	:	:
256MB	256MB	256MB	768MBytes

Chapter 3 Award BIOS Setup

Award BIOS ROM has a built-in Setup program that allows users to modify the basic system configuration. This type information is stored in battery-backed RAM so that it retains the Setup information when the power is turned off.

Entering Setup

Power on the computer and press immediately will allow you to enter Setup. The other way to enter Setup is to power on the computer, when the below message appears briefly at the bottom of the screen during the POST (Power On Self Test), press key or simultaneously press <Ctrl>, <Alt>, and <Esc> keys.

TO ENTER SETUP BEFORE BOOT PRESS CTRL-ALT-ESC OR DEL KEY

If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously press <Ctrl>, <Alt> and keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to,

PRESS F1 TO CONTINUE, CTRL-ALT-ESC OR DEL TO ENTER SETUP

Control Keys

Up Arrow Move to previous item
Down Arrow Move to next item

Left Arrow Move to the item in the left hand

Right Arrow	Move to the item in the right hand
Esc Key	Main Menu Quit and not to save changes to CMOS
	Status Page setup menu and Option Page
	Setup Menu Exit current page and return to Main Menu
PgUp Key	Increase the numeric value or make changes
PgDn Key	Decrease the numeric value or make changes
F1 Key	General help, only for Status Page Setup Menu and Option
	Setup Menu
F2 Key	Change color from total 16 colors
F3 Key	Calendar, only for Status Page Setup Menu
F4 Key	Reserved
F5 Key	Restore the previous CMOS value from BIOS, only
	for Option Page Setup Menu
F6 Key	Load the default CMOS value from BIOS default table, only
	for Option Page Setup Menu
F7 Key	Load the default
F8 Key	Reserved
F9 Key	Reserved
F10 Key	Save all the CMOS changes, only for Main Menu

Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu/Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.

The Main Menu

Once you enter Award BIOS CMOS Setup Utility, the Main Menu will appear on the Screen. Use arrow keys to select among the items and press to accept or enter the **sub-menu**.

ROM PC/ISA BIOS (2A69KPNH) CMOS SETUP UTILITY AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURE SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	HDD LOW LEVEL FORMAT
LOAD BIOS DEFAULTS	SAVE & EXIT SETUP
LOAD SETUP DEFAULTS	EXIT WITHOUT SAVING
Esc : Quit	$\leftarrow \uparrow \downarrow \rightarrow$: Select Item
F10 : Save & Exit Setup	(Shift) F2: Change Color

Standard CMOS Setup

This setup page includes all the items in a standard compatible BIOS.

BIOS Features Setup

This setup page includes all the items of Award special enhanced features.

Chipset Features Setup

This setup page includes all the items of chipset special features.

Power Management Setup

This menu provides functions for Green products by allowing users to set the timeout value for monitor and HDD.

PNP / PCI CONFIGURATION SETUP

This menu allows the user to modify PNP / PCI configuration function.

Load BIOS Defaults

BIOS defaults indicates the most appropriate value of the system parameter which the system would be in minimum performance.

Load Setup Defaults

Chipset defaults indicates the values required by the system for the maximum performance.

INTEGRATED PERIPHERALS

This section page includes all the items of IDE hard drive and Programmed Input / Output features.

Supervisor / User Password Setting

Change, set, or disable password. It allows you to limit access to the system and Setup, or just to setup.

IDE HDD Auto Detection

Automatically configure hard disk parameters.

HDD Low Level Format

If supported by your system, this provides a hard disk low level format utility.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

Standard CMOS Setup

The item in Standard CMOS Setup Menu are divided into several categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

	da_2bU[A[eS2T[ae2:DSHK]b`Z; ef S`VSdV2U_ae2eVVgb Si SdV2eaXf i SdV42[`U@							
Vs^w2: €€LvvL''; 2L2 f{€w2: zzL€€L‡‡; 2L2	f % 2Vwu20 CJ2L2FF2L2	C2CKKJ ZED						
ZSdV2V[e]e	fkbW	e[lW	Uk^e	ZVVV	bdWa_b	^S` V	e W fad	_aWV
bt{\(\xi\) \(2\) \	2222 3 222 B B >2E@C2{, @ ,,f†^L2V{‡s	B B B B	B B B B	В В В В	В В В В	B B B B	B B B B	`ad_S^ `ad_S^ `ad_S^ `ad_S^
WeU222L22c%^ XC22222L22Zw-,	\#\U222L22c\%\^\ \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\							

BIOS Features Setup

ROM PCI/ISA BIOS (2A69KPNH) BIOS FEATURE SETUP AWARD SOFTWARE, INC

		i e e e e e e e e e e e e e e e e e e e		
:	Enabled	Video BIOS Shadow	:	Enabled
:	Enabled	C8000-CBFFF Shadow	:	Disabled
:	Enabled	CC000-CFFFF Shadow	:	Disabled
:	Enabled	D0000-D3FFF Shadow	:	Disabled
:	Enabled	D4000-D7FFF Shadow	:	Disabled
:	A, C ,SCSI	D8000-DBFFF Shadow	:	Disabled
:	Disabled	DC000-DFFFF Shadow	:	Disabled
:	Disabled			
:	R/W			
:	On			
:	Fast			
:	Disabled			
:	6			
:	250			
:	Setup			
:	Disabled			
:	Non-OS2	Esc : Quit $\uparrow \downarrow \rightarrow \leftarrow$: Se	lection Item
:	Enabled	F1: Help PU/PD/+/-	: M	odify
:	No	F5 : Old Values (Shift)	F2:	Color
		F6: Load BIOS Default		
		F7: Load Setup Default		
		 Enabled Enabled Enabled Enabled A, C, SCSI Disabled Disabled R/W On Fast Disabled 6 250 Setup Disabled Non-OS2 Enabled 	 Enabled Enabled Enabled Enabled Enabled Enabled D0000-D3FFF Shadow D4000-D7FFF Shadow D8000-DBFFF Shadow Disabled R/W On Fast Disabled 6 250 Setup Disabled Non-OS2 Enabled F1: Help FU/PD/+/- F5: Old Values (Shift) Information F6: Load BIOS Default 	 Enabled Enabled Enabled Enabled Enabled D0000-D3FFF Shadow Enabled D4000-D7FFF Shadow A, C, SCSI D8000-DBFFF Shadow Disabled R/W On Fast Disabled 6 250 Setup Disabled Non-OS2 Enabled F1: Help PU/PD/+/-: Money PU/PD/+/-: Money Poisabled No F5: Old Values F6: Load BIOS Default

Virus Warning

This category flashes on the screen. During and after system boots up, any attempt to write to the boot sector or partition table of the hard disk drive will halt the system and the following error message will appear, in the mean time, you can run anti-virus programs to locate the problem.

!WARNING!

Disk boot sector is to be modified

Type "Y" to accept write or "N" to abort write

Award Software, Inc.

Enabled Activate automatically when the system boots up causing a

warning message to appear when anything attempts to access

the boot sector or hard disk partition table.

Disabled No warning message to appear when anything attempt to

access the boot sector or hard disk partition table.

CPU Internal Cache/External Cache

These two categories speed up memory access. However, it depends on CPU/chipset design. The default value is Enabled.

Enabled: Enabled cache

Disabled: Disabled cache

Quick Power On Self Test

This category speeds up Power On Self Test (POST) after you power on the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST.

Enabled: Enable quick POST

Disabled: Normal POST

Boot Sequence

This category determines which drive computer searches first for the hard disk operation system (i.e., DOS).

A, C,SCSI: System will first search for floppy disk drive then second

search hard disk driver, then SCSI driver.

C,A,SCSI/D,A,SCSI/E,A,SCSI/F,A,SCSI:

System will first search for IDE hard disk driver (C: D: or E: or F© then second search floppy disk driver then SCSI hard disk driver.

SCSI,A,C: System will first search SCSI hard disk driver then second search for floppy disk driver then IDE hard disk driver.

CDROM,C,A:

System will first search for the CDROM driver (If the CDROM has a bootable CD title.) and second search hard disk driver then floppy disk driver.

C,CDROM,A:

System will first search for the hard disk driver and second search for CDROM driver (If the CDROM has a bootable CD title,) then search floppy disk driver.

LS120,C: System will first search LS120 disk driver and second search for IDE hard disk driver.

Swap Floppy Drive

Users can enable this item so that the BIOS will see the hardware "Drive A:" as "Drive B:"", and hardware "Drive B:"" as "Drive A:"".

Boot Up Floppy Seek

During POST, BIOS will determine if the Floppy disk drive installed is 40 or 80 tracks. 360 K type is 40 tracks while 720K, 1.2M and 1.44M drive type as they are all 80 tracks.

Enabled: BIOS searches for floppy disk drive to determine if it is 40 or 80 tracks. Note that BIOS can not tell from 720K, 1.2M or 1.44M drive type as they are all 80 tracks.

Disabled: BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360K.

Boot Up NumLock Status

The default value is On.

On: Keypad is number keys

Off: Keypad is arrow keys

Boot Up System Speed

It selects the default system speed – the speed that the system will run at immediately after power up.

High: Set the speed to high

Low: Set the speed to low

Gate A20 Option

The Gate A20 Option default setting is fast.". This is the optimum setting for this mainboard.

Typematic Rate Setting

This determines the typematic rate.

Enabled: Enable typematic rate **Disabled**: Disable typematic rate

Typematic Rate (Chars/Sec)

6 : 6 characters per second

8 : 8 characters per second

10 : 10 characters per second

12 : 12 characters per second

15 : 15 characters per second
20 : 20 characters per second
24 : 24 characters per second
30 : 30 characters per second

Typematic Delay (Msec)

When holding the a key, the time between the first and second character will be displayed.

250 : 250 msec 500 : 500 msec 750 : 750 msec 1000 : 1000 msec

Security Option

This category allows you to limit access to the system and Setup, or just to Setup.

System: The system will not boot and access to Setup will be denied if

the correct password is not entered at the prompt.

Setup: The system will boot, but access to Setup will be denied if the

correct password is not entered at the prompt.

Note: To disable security, select PASSWORD SETTING at Main Menu and then you will be asked to enter password. Do not type anything and just press **Enter**>, it will disable security. Once the security is disabled, the system will boot and you can enter Setup freely.

Video BIOS Shadow

It determines whether video BIOS will be copied to RAM, however, it is optional from chipset design. Video shadow will increase the video speed.

Enabled: Video shadow is enabled

Disabled: Video shadow is disabled

C8000-CBFFF Shadow/DC000-DFFFF Shadow

These categories determine whether optional ROM will be copied to RAM by 16K byte.

Enabled: Optional shadow is enabled

Disabled: Optional shadow is disabled

Chipset Features Setup

ROM PCI/ISA BIOS (2A69KPNH) CHIPSET FEATURES SETUP AWARD SOFTWARE, INC

Auto Configuration	: Enabled	Auto Detect DIMM	I/PCI Clk	: Enabled
DRAM Speed Selection	: 60ns	Spread Spectrum		: Enabled
EDO CASX# MA Wait State	: 2			
EDO RASX# Wait State	: 1			
SDRAM RAS-to-CAS Delay	: 3			
SDRAM RAS Precharge time	: 3			
SDRAM CAS latency time	: 3			
SDRAM Precharge Control	: Disabled			
DRAM Data Integrity Mode	: Non-ECC			
System BIOS Cacheable	: Enabled			
Video BIOS Cacheable	: Enabled			
Video RAM Cacheable	: Enabled			
8 Bit I/O Recovery Time	: 1			
16 Bit I/O Recovery Time	: 1			
Memory Hole At 15M-16M	: Disabled			
Passive Release	: Enabled	Esc : Quit	$\uparrow \downarrow \rightarrow \leftarrow$: Sele	ction Item
Delayed Transaction	: Disabled	F1: Help	PU/PD/+/-	: Modify
AGP Aperture Size (MB)	: 64	F5 : Old Values	(Shift) F2	: Color
		F6: Load BIOS De	efault	
		F7: Load Setup De	efault	

This setup menu is optimized for this motherboard by your computer vendor. Unless you are a qualified engineer & know the items, functions you are going to modify. We do not recommend you to change the default setting.

Power Management

ROM PCI/ISA BIOS (2A69KPNH) POWER MANAGEMENT SETUP AWARD SOFTWARE, INC.

ACPI function	: Enabled	** Reload Glo	bal Timer Events **
Power Management	: User Define	IRQ [3-7,9-15],NMI	
PM Control by APM	: Yes	Primary IDE 0	: Disabled
Video Off Method	: V/H SYNC+Black	Primary IDE 1	: Disabled
Video Off After	: Standby	Secondary IDE 0	: Disabled
MODEM Use IRQ	: 3	Secondary IDE 1	: Disabled
Doze Mode	: Disabled	Floppy Disk	: Disabled
Standby Mode	: Disabled	Serial Port	: Enabled
Suspend Mode	: Disabled	Parallel Port	: Disabled
HDD Power Down	: Disabled		
Throttle Duty Cycle	: 62.5 %		
VGA Active in Monitor	: Enabled		
Soft-off by PWR-BTTN	: Instant-Off		
CPUFAN off In Suspend	: Enabled		
Resume by Ring	: Enabled		
Resume by Alarm	: Disabled		
		Esc : Quit	$\uparrow \downarrow \rightarrow \leftarrow$: Selection Item
		F1: Help	PU/PD/+/-: Modify
		F5 : Old Values	(Shift)F2 : Color
Wake Up On LAN	: Enabled	F6 : Load BIOS D	Defaults
IRQ 8 Break Suspend	: Disabled	F7 : Load Setup D	D efaults

This category determines the power consumption for the system after selecting below items. Default value is Disabled. The following pages tell you the options of each item & describe the meanings of each options.

Item	Options	Descriptions
A. Power Management	1. Disable	Global Power Management will be disabled
	2. User Define	Users can configure their own power management
	3. Min Saving	Pre-defined timer values are used such that all timers are in their MAX value
	4. Max Saving	Pre-defined timer values are used such that all timers MIN value

-		- · ·		
Item	Options	Descriptions		
3 PM Control by APM	1. No	System BIOS will ignore APM when power managing the system		
	2. Yes	System BIOS will wait for APM's prompt before it enter any PM mode e.g. DOZE, STANDBY or SUSPEND		
	Note: If APM is installed, & if there is a task running, even the timer is time out, the APM will not prompt the BIOS to put the system into any power saving mode!			
	Note: – if APM is not installed, this option has no effect			
	To make the APM function work, users have to install power.exe (supported by MS-DOS 5.0 or higher) in Config.exe. To make the Windows 3.1 work regularly, in "Windows Setup", users have to set the "Computer" item to "MS-DOS System with APM"			
C. Video Off Option	1. Always On	System BIOS will never turn off the screen		
	2. Suspend -> Off	Screen off when system is in SUSPEND mode		
	3. Susp, Stby	Screen off when system is in		

	-> Off	STANDBY or SUSPEND mode
	4. All Modes	Screen off when system is in
	-> Off	DOZE, STANDBY or SUSPEND
		mode
D. Video	1. Blank Screen	The system BIOS will only blanks off the screen when disabling video
	2. V/H SYN C+Blank	In addition to (1), BIOS will also turn off the V-SYNC & H- SYNC signals form VGA cards to monitor

Γ-	<u> </u>	- · ·
Item	Options	Descriptions
D. Video	3. DPMS	This function is enabled for only
		the VGA card supporting DPM
E. HDD Power Down	1. Disable	HDD's motor will not off
(#) Remark 2	2. 1 Min	Defines the continuous HDD idle
	2 Min	time before the HDD entering
	3 Min	power saving mode (motor off)
	4 Min	
	5 Min	
	6 Min	
	7 Min	
	8 Min	
	9 Min	
	10 Min	
	11 Min	
	12 Min	
	13 Min	
	14 Min	
	15 Min	
	3. When Suspend	BIOS will turn the HDD's motor
		off when system is in SUSPEND
		mode
	Note:	
	 (2) & (3) can't be selected at the same time When HDD is in power saving mode, any access 	
		wake the HDD up
		······································

Item	Options	Descriptions
3 Doze Mode	1. Disable	System will never enter DOZE
(*) Remark 1		mode
	2. 10 Sec	Defines the continuous idle time
	20 Sec	before the system entering DOZE
	30 Sec	mode.
	40 Sec	
	1 Min	If any item defined in (J) is
	3 Min	enabled & active, DOZE timer
	5 Min	will be reloaded.
	10 Min	
	15 Min	
	20 Min	
	30 Min	
	40 Min	
	1 Hr	
	2 Hr	
	3 Hr	
		NDBY mode puts the system
		speed or 8 MHz, screen may be
2 0 1 1 1 1	off deper	
3 Standby Mode	1. Disable	System will never enter STANDBY mode
(*) Remark 1	2 10 0	
	2. 10 Sec	Defines the continuous idle time
	20 Sec	before the system entering STANDBY mode.
	30 Sec 40 Sec	STANDBY mode.
	1 Min	If any item defined in (J) is
	3 Min	enabled & active, STANDBY
	5 Min	timer will be reloaded
	10 Min	timer win be reloaded
	15 Min	
	20 Min	
	30 Min	
	40 Min	
	1 Hr	
	2 Hr	
	3 Hr	
	Normally, STANDBY	Y mode puts the system into low
	speed or 8, screen ma	y be off depend on (E)

Item	Options	Descriptions
H. Suspend Mode (*) Remark 1	1. Disable	System will never enter SUSPEND mode
	2. 10 Sec 20 Sec 30 Sec 40 Sec	Defines the continuous idle time before the system entering SUSPEND mode.
	1 Min 3 Min 5 Min 10 Min 15 Min 20 Min 30 Min 40 Min 1 Hr 2 Hr 3 Hr	if any item defined in (J) is enabled & active, SUSPEND timer will be reloaded
	into low spec	USPEND mode puts the system ed or 8 MHz, clock is stopped, be off depend on (E)
I. PCI Master Activity COM Ports Activity LPT Ports Activity	1. Disable	The specified event's activity will not affect the PM timers
HDD Ports Activity DMA Ports Activity VGA Activity IRQ3 (COM 2) IRQ4 (COM 1) IRQ5 (LPT 2) IRQ6 (Floppy Disk) IRQ7 (LPT 1) IRQ8 (RTC Alarm) IRQ9 (IRQ2 Redir) IRQ10 (Reserved) IRQ11 (Reserved) IRQ12 (PS/2 Mouse) IRQ13 (Coprocessor) IRQ14 (Hard Disk) IRQ15 (Reserved)	2. Enable	The specified event's activity causes the PM Timers to be reloaded. i.e. the Power Management Unit(PMU) monitors the specified activities as PM events

* Remark 1: All items mark with (*) in this menu, will be loaded with predefined values as long as the item "Power Management" is not configured to "User Defined"

These items are:

Item "System Doze", "System Standby" & "System Suspend"

Remark 2: Although the item "HDD Power Down" is not controlled by item "Power Management" in terms of timer value, the HDD (s) will not power down if the global power management is disabled!

PNP / PCI Configuration Setup

ROM PCI/ISA BIOS(2A69KPNH) PNP/PCI CONFIGURATION AWARD SOFTWARE, INC.

PNP OS Installed	: No	PCI IDE IRQ Map To : PCI-AUTO
Resources Contorlled By	: Manual	Primary IDE INT# : A
Reset Configuration Data	: Disabled	Secondary IDE INT# : A
		·
IRQ-3 assigned to:	PCI/ISA PnP	
IRQ-4 assigned to :	PCI/ISA PnP	
IRQ-5 assigned to :	PCI/ISA PnP	
IRQ-7 assigned to:	PCI/ISA PnP	Used MEM base addr : N/A
IRQ-9 assigned to:	PCI/ISA PnP	
IRQ-10 assigned to :	PCI/ISA PnP	Assign IRQ For VGA : Enabled
IRQ-11 assigned to :	PCI/ISA PnP	Assign IRQ For USB : Enabled
IRQ-12 assigned to :	PCI/ISA PnP	
IRQ-14 assigned to :	PCI/ISA PnP	
IRQ-15 assigned to :	PCI/ISA PnP	
DMA-0 assigned to :	PCI/ISA PnP	
DMA-1 assigned to :	PCI/ISA PnP	ESC: Quit $\uparrow \downarrow \rightarrow \leftarrow$: Select Item
DMA-3 assigned to :	PCI/ISA PnP	F1 : Help PU / PD / + / - : Modify
DMA-5 assigned to :	PCI/ISA PnP	F5 : Old Values (Shift)F2 : Color
DMA-6 assigned to :	PCI/ISA PnP	F6 : Load BIOS Defaults
DMA-7 assigned to :	PCI/ISA PnP	F7 : Load Setup Defaults

The following pages tell you the options of each item & describe the meanings of each options.

Item	Options	Descriptions
A. 1st Available IRQ	3	The system BIOS will assign these 4
2nd Available IRQ	4	available IRQs to the found PCI devices
3rd Available IRQ	5	
4th Available IRQ	7	
	9	
	10	
	11	
	12	
	14	
	15	
	NA	

Item	Options	Descriptions
B. PCI IDE 2nd Channel	Enable Disable	Enable/disable 2nd channel of PCI/IDE card. It includes I/O port (170H~177H) and IRQ 15 assignment
C. PCI IDE IRQ Map To	PCI- AUTO PCI- SLOT1 PCI- SLOT2 ISA	PCI-AUTO The BIOS will: - scan for PCI IDE devices & determine the location of the PCI IDE device
	PCI- AUTO PCI- SLOT1 PCI- SLOT2 ISA	PCI-SLOT1 PCI-SLOT2 - assign IRQ 14 for primary IDE INT# IRQ 15 for secondary IDE INT# for the specified slot ISA - The BIOS will not assign any IRQs even if PCI IDE card is found! Because some IDE cards connect the IRQ 14 & 15 directly from ISA slot thru a cord. (This cord is called Legacy Header)
F. Primary IDE INT# Secondary IDE INT#	A B	To tell which INT# does the PCI IDE card is using for its interrupts

The other item are optimized by your computer vendor, please do not modify them unless you know its function exactly.

INTEGRATED PERIPHERALS

ROM PC/ISA BIOS(2A69KPNH) INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.

IDE HDD Block Mode	: Enable	UR2 Mode	: IrDA
IDE Primary Master PIO	: AUTO	UR2 Duplex Mode	: Half
IDE Primary Slave PIO	: AUTO	Half Duplex time-out	: Enabled
IDE Secondary Master PIO	: AUTO	Onboard Parallel port	: 378/IRQ7
IDE Secondary Slave PIO	: AUTO	Parallel port Mode	: Ecpepp1.9
IDE Primary Master UDMA	: AUTO	ECP Mode Use DMA	: 3
IDE Primary Slave UDMA	: AUTO		
IDE Secondary Master UDMA	: AUTO		
IDE Secondary Slave UDMA	: AUTO		
On-Chip Primary PCI IDE	: Enabled		
On-Chip Secondary PCI IDE	: Enabled		
USB keyboard Support	: Disabled		
Init Display First	: PCI Slot		
Onboard FDC Controller	: Enabled		
Onboard Serial 1	: 3F8/IRQ4	Esc : Quit $\uparrow \downarrow \rightarrow \leftarrow$: Selection Item
		F1 : Help PU/PD/	'+/- : Modify
		F5 : Old Values (Shift)	F2 : Color
		F6: Load BIOS Default	
Onboard Serial 2	: 2F8/IRQ 3	F7: Load Setup Default	

This setup menu is optimized for this motherboard by your computer vendor. Unless you are a qualified engineer & know the items, function you are going to modify. We do not recommend you to change the default setting.

Load BIOS Default

When you access "Load BIOS Default", the following message appears:

Load BIOS Default (Y/N) ?N

The BIOS Default values are the "worst case" default, and are the most stable values for the system. Use them if the system is performing erratically due to hardware problems. To load the BIOS Default values, press <Y> then <Enter>.

Load Setup Default

When you access "Load Setup Default", you are shown the following message:

Load Setup Default (Y/N) ?N

The Setup Default values represent the "best case" default, and should provided optimum system performance. To load the Setup Default values, press <Y> then <Enter>.

Supervisor / User Password Setting

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ENTER PASSWORD

Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

If you select System at Security Option of BIOS Features Setup Menu, you will be prompted for the password every time the system is rebooted or

anytime you try to enter Setup. If you select Setup at Security Option of BIOS Features Setup Menu, you will be prompted only when you try to enter Setup.

IDE HDD Auto Detection

This feature allows you to check all the informations on your hard disk formation. When you access "IDE HDD Auto Detection", the system executes auto detection.

At the prompt, it represents all the informations on your HDD, and you are asked:

Do you accept this drive C: (Y/N)?

- If you accept the test result, press [Y] then [Enter] and the result is saved, then the system continues to detect another HDD.
- If not, press [N] then [enter] and the system continues to detect another HDD.

Chapter 4 Software Setup

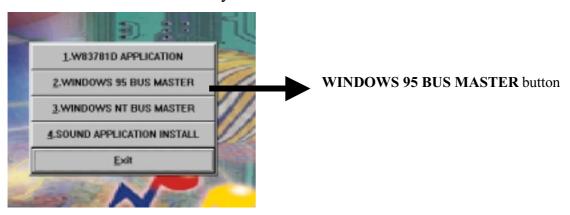
After you have finished the hardware setup, you need install the software of B785 then you can enjoy the advance Motherboard.

Please follow the steps for installation:

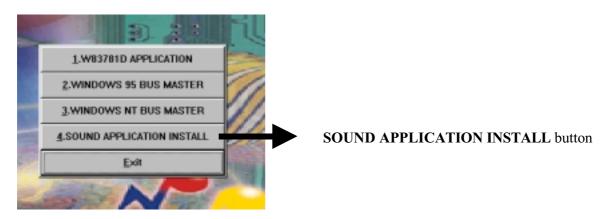
- 1. Turn on your PC and put the "**driver CD**" into your CD-ROM drive. (Please make sure it's under Win98/95 mode)
- 2. It will auto-run the driver CD. If not, please click the "start" button and select "Run" item. Then type-> D:\setup (D is assigned your CD-ROM Device)
- 3. Press "Intel 440BX" button.



4. Press "1.WINDOWS 95 BUS MASTER" and follow the instructions to this software. Then Re-boot your PC.



5. Repeat step1.~step3. Then press "4.SOUND APPLICATION INSTALL" and follow the instructions to setup this software. Re-boot your PC.



6. Congratulation!! You have installed completely and enjoy it Now

♦ Audio Control System

Introduction

The *Audio* Rack32 enables you to take advantage of your computer's audio capabilities with all of the controls conveniently in one compact space. You can play audio CDs, wave files (in WAV and .AUD formats), and MIDI files (in. MID and .RMI formats).

With the multisource Audio Mixer, you can blend these sources with line-in and microphone sources any way you choose. Add tone control and spatialization to your computer with the 3-D/Tone Controller. You can then record your creations as wave files and edit them with the Audio Recorder.

The AudioRack32 has six main parts:

- Command Center? customizes the appearance of the AudioRack32.
- 3-D/Tone Controller? adds 3-D stereo and tone controls to the *Audio*Rack32.
- Audio Mixer? controls the volume and balance of the *Audio*Rack32 devices.
- Digital Audio Player? plays and records files in the WAV format.
- MIDI Player? enables you to play MIDI files.
- Compact Disk Player? enables you to play audio CDs on a CD-ROM drive.

In addition, the *Audio*Rack32 has a miniature mode enabling you to control the *Audio*Rack32 while using minimal screen space.

The Audio Recorder is a separate application from the *Audio*Rack32 It can be used to add effects and edit files recorded with the Digital Audio Player or by the Audio Recorder itself. The Audio Recorder can be launched from the *Audio*Rack32? Digital Audio Player or on its own.

The System Diagram



The Mixer Control





Close the AudioRack32 window.



Displays or hides the 3-D/Tone Controller.



Enables the Miniature mode, minimizing the AudioRack32 display.



Displays or hides the Digital Audio Player.

Help	Accesses On-line Help.
P CD	Displays or hides the Compact Disk Player.
Mixer	Displays or hides the Audio Mixer.
DAT	Displays or hides the MIDI Player.