4. BIOS CONFIGURATION

Award's BIOS ROM has a built-in Setup program that allows users to modify the basic system configuration.

This type of information is stored in battery-backed CMOS SRAM so that it retains the Setup information when the power is turned off.

4.1. 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.

• Press DEL to enter SETUP.

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" bottom on the system case.

You may also restart by simultaneously press <Ctrl>,<Alt>, and keys.

4.2. 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 save changes into 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 Page 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 CMOS, 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.

4.3. GETTING HELP

4.3.1. Main Menu

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

4.3.2. 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>.

4.4. THE MAIN MENU

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 4.1) will appear on the screen.

The Main Menu allows you to select setup functions and exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING
LOAD SETUP DEFAULTS	
sc : Quit 10 : Save & Exit Setup	1 ↓ → ← : Select Item (Shift)F2 : Change Color

Figure 4.1: Main Menu

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 setup page includes all the items of Green function features.

PNP/PCI configuration

This setup page includes all the items of PNP/PCI configuration features.

Load BIOS defaults

BIOS defaults indicates the most appropriate value of the system parameter which the system would be in safe configuration.

Load setup defaults

Setup defaults indicates the most appropriate value of the system parameter which the system would be in safe configuration.

• Integrated Peripherals

This setup page includes all the items of peripherals features.

• Supervisor Password

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

User Password

Change, set, or disable password. It allows you to limit access to the system.

• IDE HDD auto detection

Automatically configure hard disk parameter.

Save & exit setup

Save CMOS value changes to CMOS and exit setup.

• Exit without save

Abandon all CMOS value changes and exit setup.

4.5. STANDARD CMOS SETUP MENU

The items in Standard CMOS Setup Menu (Figure 4.2) are divided into 9 categories. Each category includes no, one or more than one setup items. Use the arrows to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

Date (mm:dd:yy) : Time (hh:mm:ss) :	Thu, Ap 14 : 32	r 23 199 3	в					
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master Primary Slave Secondary Master	: Auto	0	0	0	0	0	0	AUTO
Primary Slave	Auto	0000	0000	0000	000000000000000000000000000000000000000	0	0000	AUTO
Secondary Master	Auto	0	0	0	0	0	0	AUTO
Secondary Slave	Auto	0	0	0	0	0	0	AUTO
Drive A : 1.44M.	3.5 in.							
Drive B : None	565 (SSS)				Base I	Memory:	: 640ł	<
Floppy 3 Mode Sup	port : D	isabled		E>	xtended M	Memory	15360k	<
					Other M	Memory:	: 384	<
Video EGA/VGA	e.					2		
Halt On : No Error	s				lotal l	Memory:	: 16384	s

Figure 4.2: Standard CMOS Setup Menu

Date

The date format is <day>, <date> <month> <year>. Press <F3> to show the calendar.

Day	The day, from Sun to Sat, determined by the BIOS and is display-only
Date	The date, from 1 to 31 (or the maximum allowed in the month)
Month	The month, Jan. through Dec.
Year	The year, from 1994 through 2079

Time

The time format in <hour> <minute> <second>.

The time is calculated base on the 24-hour military-time clock.

For example, 1 p.m. is 13:00:00.

Primary HDDs / Secondary HDDs

The category identify the types of hard disk from drive C to drive F

4 devices that has been installed in the computer.

There are three options for definable type; User, Auto and None .

Type User is user-definable; and type Auto means automatically detecting HDD's type and None means No IDE HDD installed.

If you select Type User, related information is asked to be entered to the following items.

Enter the information directly from the keyboard and press <Enter>.

Those information should be provided in the documentation from your hard disk vendor or the system manufacturer.

CYLS.	number of cylinders	
HEADS	number of heads	
PRECOMP	write precomp	
LANDZONE	landing zone	
SECTORS	number of sectors	

If a hard disk has not been installed select NONE and press <Enter>.

Drive A type / Drive B type

The category identify the types of floppy disk drive A or drive B that has been installed in the computer.

None	No floppy drive installed		
360K, 5.25 in.	5-1/4 inch PC-type standard drive; 360 kilobyte		
	capacity.		
1.2M, 5.25 in.	5-1/4 inch AT-type high-density drive; 1.2 megabyte		
	capacity (3-1/2 inch when 3 Mode is Enabled).		

BIOS CONFIGURATION

720K, 3.5 in.	3-1/2 inch double-sided drive; 720 kilobyte capacity			
1.44M, 3.5 in.	3-1/2 inch double-sided drive; 1.44 megabyte capacity.			
2.88M, 3.5 in.	3-1/2 inch double-sided drive; 2.88 megabyte capacity.			

• Floppy 3 Mode Support (for Japan Area)

Disable	Normal Floppy Drive.	
Drive A	Drive A is 3 mode Floppy Drive.	
Drive B	Drive B is 3 mode Floppy Drive.	
Both	Drive A & B are 3 mode Floppy Drive.	

• Video

The category detects the type of adapter used for the primary system monitor that must match your video display card and monitor.

Although secondary monitors are supported, you do not have to select the type in setup.

EGA/VGA	Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SVGA, or PGA monitor adapters			
CGA 40	Color Graphics Adapter, power up in 40 column mode			
CGA 80	Color Graphics Adapter, power up in 80 column mode			
MONO	Monochrome adapter, includes high resolution monochrome adapters			
	monochiome adapters			

Halt on

The category determines whether the computer will stop if an error is detected during power up.

NO Errors	The system boot will not be stopped for any error that may be detected
All Errors	Whenever the BIOS detects a non-fatal error, the system will be stopped and you will be prompted
All, But Keyboard	The system boot will not stop for a keyboard error; it will stop for all other errors

All, But Diskette	The system boot will not stop for a disk error; it
,	will stop for all other errors
All, But Disk/Key	The system boot will not stop for a keyboard or
	disk error; it will stop for all other errors

Memory

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

Base Memory

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

The value of the base memory is typically 512 K for systems with 512 K memory installed on the motherboard, or 640 K for systems with 640 K or more memory installed on the motherboard.

Extended Memory

The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map.

Expanded Memory

Expanded Memory in memory defined by the Lotus / Intel / Microsoft (LIM) standard as EMS.

Many standard DOS applications can not utilize memory above 640, the Expanded Memory Specification (EMS) swaps memory which not utilized by DOS with a section, or frame, so these applications can access all of the system memory.

Memory can be swapped by EMS is usually 64K within 1 MB or memory above 1 MB, depends on the chipset design.

Expanded memory device driver is required to use memory as Expanded Memory.

Other Memory

This refers to the memory located in the 640 to 1024 address space. This is memory that can be used for different applications.

DOS uses this area to load device drivers to keep as much base memory free for application programs. Most use for this area is Shadow RAM.

4.6. BIOS FEATURES SETUP

	AWARD SOFT	
External Cache Quick Power On Self Test Boot Sequence VGA Boot From Swap Floppy Drive Boot Up Floppy Seek Boot Up Floppy Seek Boot Up System Speed Gate A20 Option Security Option		Video BIOS Shadow : Enabled C8000-CBFFF Shadow : Disabled D0000-D3FFF Shadow : Disabled D4000-D3FFF Shadow : Disabled D8000-DBFFF Shadow : Disabled D6000-DFFFF Shadow : Disabled
noo 3.m.x.k.r. capaorrey	. Disabled	ESC : Quit 11+++ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults

Figure 4.3: BIOS Features Setup

Virus Warning

This category flashes on the screen. During and after the 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 program to locate the problem.

The default value is Disabled.

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 appears when anything attempts 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	Enable cache function.
Disabled	Disable cache function.

Quick Power On Self Test

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

The default value is Enabled.

Enabled	Enable quick POST.
Disabled	Normal POST.

Boot Sequence

This category determines which drive computer searches first for the disk operating system (i.e., DOS). Default value is A, C, SCSI.

X1, X2, X3	System will first search for X1 disk drive then X2 disk
	drive and then X3 disk drive.

VGA Boot From

The default value is PCI.

AGP	System will boot from AGP Display Card
PCI	System will boot from PCI VGA Card

Swap Floppy Drive

The default value is Disabled.

Enabled	Floppy A & B will be swapped under DOS.
Disabled	Floppy A & B will be normal definition.

Boot Up Floppy Seek

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

The default value is Enabled.

EnabledBIOS searches for floppy disk drive to determine if it is 40
or 80 tracks. Note that BIOS can not tell from 720, 1.2 or
1.44 drive type as they are all 80 tracks.DisabledBIOS 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 360

Boot Up NumLock Status

The default value is On.

On	Keypad is number keys.
Off	Keypad is arrow keys.

Boot Up System Speed

The default value is High.

High	Set Boot Up System Speed: High.
Low	Set Boot Up System Speed: Low.

Gate A20 Option

The default value is Fast.

Fast	Set Boot Up System Speed: High.
Normal	Set Boot Up System Speed: Low.

Security option

The default value is Setup.

Setup	The system will boot and access to Setup will be denied if
	the correct password is not entered at the prompt.
System	The system will not boot and access to Setup will be
	denied if the correct password is not entered at the
	prompt.

To disable security, select PASSWORD SETTING at Main Menu and then you will be asked to enter password. If the user does 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.

PCI/VGA Palette Snoop

The default value are Disabled.

Enabled	For having Video Card on ISA Bus and VGA Card on PCI
	Bus.
Disabled	For VGA Card only.

• OS Select For DRAM>64MB

The default value is Non-OS2.

Non-OS2	Using non-OS2 operating system.
OS2	Using OS2 operating system and DRAM>64MB.

• HDD S.M.A.R.T. Capability

The default value is Disable.

Enable	Enable HDD S.M.A.R.T. Capability
Disable	Disable HDD S.M.A.R.T. Capability

Video BIOS Shadow

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

The default value is Enable.

Enabled	Video shadow is enabled.
Disabled	Video shadow is disabled.

C8000 - CFFFF Shadow / D0000 - DFFFF Shadow

These categories determine whether optional ROM will be copied to RAM by 16 byte. The default value are Disabled.

Enabled	Optional shadow is enabled.
Disabled	Optional shadow is disabled.



4.7. CHIPSET FEATURES SETUP

Figure 4.4: Chipset Features Setup

Auto Configuration

The default value is Enabled.

Enabled	For General State.
Disabled	For Special SDRAM Timing and ISA CLK.

• Host Read DRAM Command Mode.

The default value is Syn.

Bypass	Set DRAM Cycle Start at T3 clock after ADS#.
Syn.	Set DRAM Cycle Start at T3+1 clock after ADS#.

AT Bus Clock

The default value is CLK2/4.

CLK2/3 Set AT BUS CIOCK to CLK2/3.	CLK2/3	Set AT Bus Clock to CLK2/3.
------------------------------------	--------	-----------------------------

CLK2/4	Set AT Bus Clock to CLK2/4.
7.159MHz	Set AT Bus Clock to 7.159MHz.

DRAM Timing

The default value is Normal.

Normal	For normal DRAM timing operation.
Fast	For Fastest DRAM timing operation.
Slow	For Slower DRAM timing operation.

SDRAM CAS Latency

The default value is AUTO.

3	For Slower SDRAM DIMM module.
2	For Fastest SDRAM DIMM module.
Auto	CAS latency time will be set automatically if you have SPD on SDRAM

Pipelined Function

The default value is Enable.

Enable	Enable Pipelined Function.
Disable	Disable Pipelined Function.

Graphics Aperture Size

The default value is 64MB.

16MB	Set Graphics Aperture Size to 16MB.
32MB	Set Graphics Aperture Size to 32MB.
64MB	Set Graphics Aperture Size to 64MB.
128MB	Set Graphics Aperture Size to 128MB.
256MB	Set Graphics Aperture Size to 256MB.

• SDRAM Burst X-1-1-1-1-1-1

The default value is Enable.

Enable	Enable SDRAM Burst X-1-1-1-1-1-1.
Disable	Disable SDRAM Burst X-1-1-1-1-1-1.

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DRAM Data Integrity Mode

The default value is Disable.

ECC	Set DRAM Data Integrity Mode to ECCMode.	
Parity	Set DRAM Data Integrity Mode to ParityMode.	
Disable	Disable DRAM Data Integrity Mode.	

• Memory Hole at 15M-16M

The default value is Disabled.

Enabled	Set Address=15-16MB relocate to ISA BUS.
Disabled	Normal Setting.

ISA Line Buffer

The default value is Enabled.

Enabled	Enable ISA Line Buffer.
Disabled	Disable ISA Line Buffer.

Passive Release

The default value is Enabled.	
Enabled	Enable Passive Release.
Disabled	Disable Passive Release.

Delay Transaction

The default value is Disabled.

Enabled	Enable Delay Transaction.
Disabled	Disable Delay Transaction.

• Primary Frame Buffer

The default value is 2MB.

1MB	Set Primary Frame Buffer to 1MB.	
2MB	Set Primary Frame Buffer to 2MB.	
4MB	Set Primary Frame Buffer to 4MB.	
8MB	Set Primary Frame Buffer to 8MB.	
16MB	Set Primary Frame Buffer to 16MB.	
ALL	Set Primary Frame Buffer to ALL.	
Disabled	Disable Primary Frame Buffer.	

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VGA Frame Buffer

The default value is Enabled.

Enabled	Enable VGA Frame Buffer.
Disabled	Disable VGA Frame Buffer.

Data Merge

The default value is Enabled.

Enabled	Enable Data Merge.
Disabled	Disable Data Merge.

• Auto Detect DIMM/PCI Clk

The default value is Enabled.

Enabled	Enabled Auto Detect DIMM/PCI Clk.
Disabled	Disabled Auto Detect DIMM/PCI Clk.

Spread Spectrum

The default value is 0.6% (CNTR)

Disabled	Normal
0.6%(CNTR)	Set Spread Spectrum 0.6%(CNTR)

4.8. POWER MANAGEMENT SETUP

	AWARD SOI	FTWARE, INC.	
	: DPMS Support - ** : Disable : Disable	** External Power Button	
FAN Off Option CPU Temperature ** PM Event	: Suspend : Auto		
Primary HDD Floppy COM Ports Keyboard LPT Ports	: Disabled : Enabled : Enabled : Disabled	ESC : Quit F1 : Help F F5 : Old Values F F6 : Load BIOS De F7 : Load Setup De	PU/PD/+/- : Modify (Shift)F2 : Color ≥faults

Figure 4.5: Power Management Setup

Power Management

The default value is Enabled.

Enabled	Enable Green function.
Disabled	Disable Green function.

PM Control by APM

The default value is Yes.

Yes	Enable software APM function.
No	Disable software APM function.

Video off Option

The default value is Suspend.

Suspend	Set Video off if system enter Suspend Mode.
Always On	Set Video always on.

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Video Off Method

The default value is DPMS Support.

V/H SYNC + Blank	BIOS will turn off V/H-SYNC when gets into
	Green mode for Green monitor power saving.
Blank Screen	BIOS will only black monitor when gets into
	Green mode.
DPMS Support	BIOS will use DPMS Standard to control VGA
	card. (The Green type VGA card will turn of
	V/H-SYNC automatically.)

HDD Power Down

The default value is Disable.

Disable	Disable HDD Power Down mode function.
1-15 mins.	Enable HDD Power Down mode between 1 to 15 mins.

Suspend Mode

The default value is Disable.

Disabled	Disable Suspend Mode.
1 min - 1	Setup the timer to enter Suspend Mode.
Hour	

• Throttle Duty Cycle

The default value is 62.5-75%.

12.5-25%	Set Throttle Duty Cycle is 12.5-25%.	
37.5-50%	% Set Throttle Duty Cycle is 37.5-50%.	
62.5-75%	Set Throttle Duty Cycle is 62.5-75%.	
Disable	Disable Throttle Duty Cycle.	

• FAN off Option

The default value is Suspend.

Suspend	Set FAN o	off if system enter Suspend Mode.	
---------	-----------	-----------------------------------	--

ĺ	Always On	Set FAN always on.

• CPU Temperature

The default value is Auto.

Auto	Set CPU Temperature Automatically.
65°C / 149°F	Monitor CPU Temp. at 65°C / 149°F. if Temp. >
	65°C / 149°F, the speed of CPU will be slow down.
70°C / 158°F	Monitor CPU Temp. at 70°C / 158°F. if Temp. >
	70°C / 158°F, the speed of CPU will be slow down.
75°C / 167°F	Monitor CPU Temp. at 75°C / 167°F. if Temp. >
	75°C / 167°F, the speed of CPU will be slow down.
80°C / 176°F	Monitor CPU Temp. at 80°C / 176°F. if Temp. >
	80°C / 176°F, the speed of CPU will be slow down.
Disable	Disable the Function.

Primary HDD

The default value is Disabled.

Enabled	Disable Primary HDD Ports Activity.
Disabled	Enable Primary HDD Ports Activity.

• Floppy

The default value is Disabled.

Enabled	Enable Floppy Ports Activity.
Disabled	Disable Floppy Ports Activity.

COM Ports

The default value is Enable.

Enabled	Enable COM Ports Activity.
Enabled	Enable COM Ports Activity.

Keyboard

The default value is Enable.

Enabled Enable Keyboard Activity.

LPT Ports

The default value is Disabled.

Enabled	Enable LPT Ports.
Disabled	Disable LPT Ports.

Power Button

The default value is InstantOff.

Instantoff	Soft switch ON/OFF for POWER ON/OFF.
Delay 4Sec.	Soft switch ON 4sec. for POWER OFF.

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4.9. PNP/PCI CONFIGURATION



Figure 4.6: PCI Slot Configuration

PNP OS Installed

The default value is No.

Yes	Enable PNP OS Installed function.
No	Disable PNP OS Installed function.

Resources Controlled by

The default value is Manual.

Manual	User can set the PnP resource (I/O Address, IRQ & DMA
	channels) used by legacy ISA DEVICE.
Auto	BIOS automatically use these PnP rescuers.

Reset Configuration Data

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable clear PnP information in ESCD.

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• IRQ (3,4,5,7,9,10,11,12,14,15), DMA(0,1,3,5,6,7) assigned to

The default value is "Legacy ISA" or "PCI/ISA PnP".

Legacy ISA	The resource is used by Legacy ISA device.
PCI/ISA PnP	The resource is used by PCI/ISA PnP device (PCI or
	ISA).

PCI IRQ Actived By

The default value is Level.

Level	Set PCI IRQ Actived by Level.
Edge	Set PCI IRQ Actived by Edge.

PCI IDE IRQ Map To

The default value is PCI-AUTO.

PCI-AUTO	Map PCI IDE IRQ to PCI slot automatically.
ISA	Map PCI IDE IRQ to ISA slot.

Primary/Secondary IDE INT#

А	Set INTA for primary/secondary PCI IDE.
В	Set INTB for primary/secondary PCI IDE.
С	Set INTC for primary/secondary PCI IDE.
D	Set INTD for primary/secondary PCI IDE.

4.10. LOAD BIOS DEFAULTS



Figure 4.7: Load BIOS Defaults

• Load BIOS Defaults

To load BIOS defaults value to CMOS SRAM, enter "Y". If not, enter "N".

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4.11. LOAD SETUP DEFAULTS



Figure 4.8: Load Setup Defaults

• Load SETUP Defaults

To load SETUP defaults value to CMOS SRAM, enter "Y". If not, enter "N".

• If there is any problem occurred, loading BIOS DEFAULTS step is recommended.

4.12. INTEGRATED PERIPHERALS



Figure 4.9: Integrated peripherals

*When KB PWR ON/OFF Function set Enabled, KB PWR ON/OFF Password : Enter will show up.

* These three items will show up when RTC Alarm Controller is enabled.

On-Chip Primary IDE

The default value is Enabled.

Enabled	Enable onboard 1st channel IDE port.
Disabled	Disable onboard 1st channel IDE port.

• Master PIO (for onboard IDE 1st channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing mode.
Mode0~4	Manually set the IDE Accessing mode.

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• Slave PIO (for onboard IDE 1st channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing
	mode.
Mode0~4	Manually set the IDE Accessing mode.

• Master Ultra DMA (for onboard IDE 1sd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disable UDMA function.

• Slave Ultra DMA (for onboard IDE 1sd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disable UDMA function.

On-Chip Secondary IDE

The default value is Enabled.

Enabled	Enable onboard 2nd channel IDE port.
Disabled	Disable onboard 2nd channel IDE port.

• Master PIO (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing
	mode.
Mode0~4	Manually set the IDE Accessing mode.

• Slave PIO (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing
	mode.
Mode0~4	Manually set the IDE Accessing mode.

• Master Ultra DMA (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing
	mode.
Disabled	Disable UDMA function.

• Slave Ultra DMA (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing
	mode.
Disabled	Disable UDMA function.

• IDE HDD Block Mode

The default value is Enabled.

Enabled	Enable IDE HDD Block Mode
Disabled	Disable IDE HDD Block Mode

On-Chip USB Controller

The default value is Enabled.

Disabled	Disable USB Controller.
Enabled	Enable USB Controller.

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• USB Keyboard Support

The default value is Disabled.

Disabled	Disable USB Keyboard Support.
Enabled	Enable USB Keyboard Support.

• Ring / Wake On Lan Control

The default value is Enable.

Enabled	Enable Modem Ring On / Wake On Lan function.
Disabled	Disable this function.

Onboard FDC Controller

The default value is Enabled.

Enabled	Enable onboard Floppy port.
Disabled	Disable onboard Floppy port.

Onboard Serial Port 1

The default value is 3F8/IRQ4.

Auto	BIOS will automatically setup the port 1 address.
3F8/IRQ4	Enable onboard Serial port 1 and address is 3F8.
2F8/IRQ3	Enable onboard Serial port 1 and address is 2F8.
3E8/IRQ4	Enable onboard Serial port 1 and address is 3E8.
2E8/IRQ3	Enable onboard Serial port 1 and address is 2E8.
Disabled	Disable onboard Serial port 1.

Onboard Serial Port 2

The default value is 2F8/IRQ3.

Auto	BIOS will automatically setup the port 2 address.
3F8/IRQ4	Enable onboard Serial port 2 and address is 3F8.
2F8/IRQ3	Enable onboard Serial port 2 and address is 2F8.
3E8/IRQ4	Enable onboard Serial port 2 and address is 3E8.
2E8/IRQ3	Enable onboard Serial port 2 and address is 2E8.
Disabled	Disable onboard Serial port 2.

Onboard Parallel port

The default value is 378/IRQ7.

378/IRQ7	Enable onboard LPT port and address is 378/IRQ7.
278/IRQ5	Enable onboard LPT port and address is 278/IRQ5.
Disabled	Disable onboard LPT port.
3BC/IRQ7	Enable onboard LPT port and address is 3BC/IRQ7.

KB PWR ON/OFF Function

The default value is Disabled.

Disabled	Disabled KB PWR ON/OFF Function
Enabled	Enabled KB PWR ON/OFF Function

KB PWR ON/OFF Password

The default value is Enter.

KB PWR ON/OFF Function Set Enabled, KB PWR ON/OFF Password : Enter will show up. When users enabled KB PWR ON/OFF Function, please set password with three different characters, and press the three different characters password at the same time. For example, if users set "abc" as password , then he would press "a" "b" "c" at the same time. (a-b-c is hot key).

• RTC Alarm Controller

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable alarm function to POWER ON system.

If RTC Alarm Controller is Enabled.

Date Alarm :	NA,1~31
Hour Alarm :	0~24
MinuteAlarm :	0~59

4.13. SUPERVISOR / USER PASSWORD

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

STANDARD CMOS SETUP	INTEGRATED PERIPHERA	
BIOS FEATURES SETUP	SUPERVISOR PASSWORD	
CHIPSET FEATURES SETUP	USER PASSWORD	
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTIO	
PNP/PCI CONFIGURA Enter Password :	ETUP	
LOAD BIOS DEFAULT	SAVING	
LOAD SETUP DEFAULTS		
c : Quit O : Save & Exit Setup	1↓→← : Select Item (Shift)F2 : Change Colo	

Figure 4.10: Password Setting

Type the password, up to eight characters, and press <Enter>. The password typed now will clear 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.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled.

Once the password is disabled, the system will boot and you can enter Setup freely.

PASSWORD DISABLED

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 any time 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.

4.14. IDE HDD AUTO DETECTION

ROM PCI / ISA BIOS (2A89.(60N) IDE HDD AUTO DECTION AWARD SOFTWARE, INC.								
HARD DISKS TYPE SIZE CYLS HEAD PRECOMP LANDZ SECTOR MODE								
Primary Master :								
		Se	elect Prin	hary Ma	ster Option (N=Skip):	N	
	OPTION	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
	100	521	530	32	0	1059	63	LBA
	2	521	1060	16	65535	1059	63	NORMAL
	3	521	530	32	65535	1059	63	LARGE
Note: Some Oses (like SCO-UNIX) must use "NORMAL" for installation ESC : Skip								

Figure 4.11: IDE HDD Auto Detection

Type "Y" will accept the H.D.D. parameter reported by BIOS.

Type "N" will keep the old H.D.D. parameter setup. If the hard disk cylinder NO. is over 1024, then the user can select LBA mode or LARGE mode for DOS partition larger than 528 MB.



Figure 4.12: Save & Exit Setup

Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS SRAM.

Type "N" will return to Setup Utility.

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4.16. **EXIT WITHOUT SAVING** ROM PCI/ISA BIOS (2A5KKGO9) CMOS SETUP UTILITY AWARD SOFTWARE, INC. STANDARD CMOS SETUP INTEGRATED PERIPHERALS BIOS FEATURES SETUP SUPERVISOR PASSWORD CHIPSET FEATURES SETUP USER PASSWORD POWER MANAGEMENT SETUP IDE HDD AUTO DETECTION PNP/PCI CONFIGURA ETUP AVING LOAD BIOS DEFAULT LOAD SETUP DEFAULTS Esc : Quit F10 : Save & Exit Setup 1 ↓ → ← : Select Item (Shift)F2 : Change Color

Figure 4.13: Exit Without Saving

Type "Y" will quit the Setup Utility without saving to RTC CMOS SRAM.

Type "N" will return to Setup Utility.

5. Troubleshooting

How to remove "?PCI Universal Serial Bus" under the Windows 95 ?

Method 1:

1.Please Install Windows 95 OSR2.1 attached file "USBSUPP.EXE"

2.Run this file and then system will restart.

3. Please go to the Device Manager , and remove " $?\ensuremath{\mathsf{PCI}}$ Universal Serial Bus".

4.Please press "Refresh" buttom.

5.System will request your USB Driver under the directory c:\windows\system\openhci.sys

6. Choose this directory and press "OK", System will find Open HCl's USB Driver.

7.Restart your system.

Method 2:

- 1. Go to the web site of ALi (http://www.ali.com.tw/eframes.htm)
- 2. Download ALi USB Host Controller Supplement.
- 3. Install the file according to readme.



FCC Compliance Statement:

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna
- -Move the equipment away from the receiver
- -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected
- -Consult the dealer or an experienced radio/television technician for additional suggestions

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void Your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions 1) this device may not cause harmful interference and 2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity We, Manufacturer/Importer (full address)

G.B.T. Technology Trading GMBH Ausschlager Weg 41, 1F, 20537 Hamburg, Germany

declare that the product (description of the apparatus, system, installation to which it refers)

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is in conformity with (reference to the specification under which conformity is declared) in accordance with 89/336 EEC-EMC Directive

EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM high frequency equipment	EN 61000-3-2* EN60555-2	Disturbances in supply systems caused by household appliances and similar electrical equipment "Harmonics"				
EN55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	EN61000-3-3* EN60555-3	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"				
EN 55014	Limits and methods of measurement of radio disturbance characteristics of household electrical appliances,	I EN 50081-1	Generic emission standard Part 1: Residual, commercial and light industry				
	portable tools and similar electrical apparatus	I EN 50082-1	Generic immunity standard Part 1: Residual, commercial and light industry				
🗌 EN 55015	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	EN 55081-2	Generic emission standard Part 2: Industrial environment				
EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	EN 55082-2	Generic immunity standard Part 2: Industrial environment				
🛛 EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	ENV 55104	Immunity requirements for household appliances tools and similar apparatus				
DIN VDE 0855 part 10 part 12	Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals	EN 50091-2	EMC requirements for uninterruptible power systems (UPS)				
CE marking		(EC conformity	/ marking)				
The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC							
EN 60065	Safety requirements for mains operated electronic and related apparatus for household and similar general use	EN 60950	Safety for information technology equipment including electrical business equipment				
🗌 EN 60335	Safety of household and similar electrical appliances	EN 50091-1	General and Safety requirements for uninterruptible power systems (UPS)				

Manufacturer/Importer

(Stamp)

Date : MAY. 29, 1998

Signature : Rex Lin Name : Rex Lin