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 batterybacked 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. 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

	1
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	Reserved
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.

ROM PCI / ISA BIOS CMOS SETUP UTILITY AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS	
BIOS FEATURES SETUP	USER PASSWORD	
CHIPSET FEATURES SETUP	IDE HDD AUTO DETECTION	
POWER MANAGEMENT SETUP	SAVE & EXIT SETUP	
PNP/PCI CONFIGURATION	EXIT WITHOUT SAVING	
LOAD BIOS DEFAULTS		
LOAD PERFORMANCE DEFAULTS		
ESC : Quit	i ŶŶřÖ: Select Item	
F10 : Save & Exit Setup (Shift)F2 : Change Color		
Time, Date, Hard Disk Type,		

Figure 4.1: Main Menu

Standard CMOS setup

This setup page includes all the items in 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 configurations of PCI & PnP ISA resources.

Load BIOS defaults

BIOS Defaults indicates the most appropriate value of the system parameters that the system would be in safe configuration.

Load Performance defaults

Performance Defaults indicates the value of the system parameters that the system would be in the best performance configuration.

Integrated peripherals

This setup page includes all onboard peripherals.

User password

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.

Save & exit setup

Save CMOS value settings to CMOS and exit setup.

Exit without saving

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.

ROM PCI / ISA BIOS STANDARD CMOS SETUP AWARD SOFTWARE, INC.

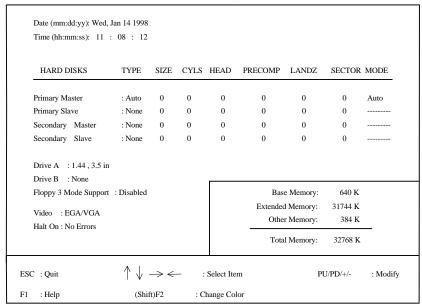


Figure 4.2: Standard CMOS Setup Menu

Date

The date format is <day>, <month> <date> <year>.

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

Time

The times format in <nour> <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 identifies the types of hard disk from drive C to F that has been installed in the computer. There are two types: auto type, and user definable type. User type is user-definable; Auto type which will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category.

If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the keyboard and press <Enter>. Such information should be provided in the documentation form 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 identifies 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.	5.25 inch PC-type standard drive; 360K byte	
	capacity.	
1.2M, 5.25 in.	5.25 inch AT-type high-density drive; 1.2M byte	
	capacity (3.5 inch when 3 Mode is Enabled).	
720K, 3.5 in.	3.5 inch double-sided drive; 720K byte capacity	
1.44M, 3.5 in.	3.5 inch double-sided drive; 1.44M byte capacity.	

2.88M, 3.5 in. 3.5 inch double-sided drive; 2.88M byte capacity.

Floppy 3 Mode Support (for Japan Area)

Disabled	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 Drives.

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	

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 stop 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 K; 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 64 K 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 K to 1024 K 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

ROM PCI / ISA BIOS BIOS FEATURES SETUP AWARD SOFTWARE, INC.

Virus Warning	: Disabled	Video BIOS Shado	w :En	abled
CPU Internal Cache	: Enabled			
External Cache	: Enabled			
CPU L2 Cache ECC Checking	: Disabled			
Quick Power On Self Test	: Enabled			
CPU Update Data Boot From LAN First Boot Sequence	: Enabled : Enabled : A, C, SCSI			
Swap Floppy Drive	: Disabled			
VGA Boot From	: AGP			
Boot Up Floppy Seek	: Enabled			
Boot Up NumLock Status	: On			
Typematic Rate Setting	: Disabled			
Typematic Rate (Chars/Sec)	: 6			
Typematic Delay (Msec)	: 250	ESC : Quit	¡ŶÕŧÖ	: Select Item
Security Option	: Setup	F1 : Help	PU/PD/+/-	: Modify
PCI/VGA Palette Snoop	: Disabled	F5 : Old Values	(Shift)F2	: Color
Assign IRQ For VGA	: Enabled	F7 : Load Perform	mance Defaults	
OS Select For DRAM >64MB	: Non-OS2			

Figure 4.3: BIOS Features Setup

Virus Warning

If it is set to enable, the category will flash on the screen when there is any attempt to write to the boot sector or partition table of the hard disk drive. The system will halt and the warning message will appear in the mean time. You can run anti-virus program to locate the problem.

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 to appear 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 \mbox{CPU} / chipset design. The default value is Enabled.

Enabled	Enable cache
Disabled	Disable cache

• CPU L2 Cache ECC Checking

The default value is Disabled.

Enabled	Enable CPU L2 Cache ECC Checking
Disabled	Disable CPU L2 Cache ECC Checking

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.

The default value is Enabled.

Enabled	Enable quick POST
Disabled	Normal POST

CPU Update Data

The default value is Enabled.

Enabled	Enable CPU Update Data
Disabled	Normal CPU Update Data

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.

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

VGA Boot From

The default value is AGP.

AGP	VGA Boot From AGP
PCI	VGA Boot From PCI

Boot Up Floppy Seek

During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360 K type is 40 tracks 720 K, 1.2 M and 1.44 M are all 80 tracks. The default value is Enabled.

Enabled	BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720 K, 1.2 M or 1.44 M 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 360 K

Boot Up NumLock Status

The default value is On.

On	Keypad is number keys
Off	Keypad is arrow keys

• Typematic Rate Setting

The default value is Disabled.

Enabled	Enable Keyboard Typematic rate setting.
Disabled	Disable Keyboard Typematic rate setting.

Typematic Rate (Chars / Sec)

The default value is 6.

6-30	Set the maximum Typematic rate from 6 chars. Per
	second to 30 chars. Per second.

• Typematic Delay (Msec)

The default value is 250.

250-1000	Set the time delay from first key to repeat the same key
	in to computer.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup. The default value is Setup.

System	The system can not boot and can not access to Setup page 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

- 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 page freely.
- PCI/VGA Palette Snoop

The default value is 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.

Video BIOS Shadow

It determines whether video BIOS is able to copy to RAM, however, it is optional from chipset design. Video Shadow will increase the video speed. The default value is Enabled.

Enabled	Video shadow is enabled
Disabled	Video shadow is disabled

4.7. CHIPSET FEATURES SETUP

ROM PCI / ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.

EDO CASx# MA Wait State EDO RASx# Wait State SDRAM CAS latency Time DRAM Data Integrity Mode System BIOS Cacheable Video BIOS Cacheable	: 1 : 1 : Auto : Non-ECC : Enabled : Enabled	Current CPU Temperature Current CPUFAN Speed Current CPUVCore A Current CPUVCore B Current +3.3 V Current +5 V	: 39 c J/ ₁₀₂ c K : 5152 RPM : 2.83 V : 1.50 V : 3.53 V : 4.99 V
Video BIOS Cacheable Video RAM Cacheable 16 Bit I/O Recovery Time Memory Hole At 15M-16M Delayed Transaction Clock Spread Spectrum	: Enabled : Disabled : 1 : Disabled : Disabled : Disabled		
Slow Down CPU Duty Cycle Alarm When CPU Overheat CPU Temperature Select CPUFan Control *CPUFan Fail Alarm	: Normal : Disabled : 75 ° J/167 ° K : Enabled : Disabled	1	: Select Item : Modify : Color

Figure 4.4: Chipset Features Setup

• EDO CASx# MA Wait State

The default value is 1.

1	Set EDO CASx# MA Wait State to 1.
2	Set EDO CASx# MA Wait State to 2.

EDO RASx# Wait State

The default value is 1.

1	Set EDO RASx# Wait State to 1.
2	Set EDO RASx# Wait State to 2.

^{*} This item will be unavailable when "CPUFan Control" is set to Disabled.

SDRAM CAS latency Time

The default value is Auto.

3	For 67 / 83 MHz SDRAM DIMM module.
2	For 100 MHz SDRAM DIMM module.
Auto	CAS latency time will be set automatically if you have SPD on SDRAM

DRAM Data Integrity Mode

The default value is Non-ECC.

Non-ECC	For 64bit standard type DIMM module.
ECC	For 72bit ECC type DIMM module.

• System BIOS Cacheable

The default value is Enabled.

Enabled	Enable System BIOS Cacheable.
Disabled	Disable System BIOS Cacheable.

Video BIOS Cacheable

The default value is Enabled.

Enabled	Enable video BIOS Cacheable.
Disabled	Disable video BIOS Cacheable.

Video RAM Cacheable

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable this function to get better VGA performance;
	while some brands of VGA must be disabled this
	function (e.g.ET4000W32P).

• 16 Bit I/O Recovery Time

The default value is 1.

1-4	Set 16 Bit I/O recovery time from 1 to 4.
NA	None.

• Memory Hole At 15M-16M

The default value is Disabled.

Disabled	Normal Setting.
Enabled	Set Address=15~16MB remap to ISA BUS.

• Delayed Transaction

The default value is Disabled.

Disabled	Normal operation.
Enabled	For slow speed ISA device in system.

Clock Spread Spectrum

The default value is Disable.

Disabled	Normal operation.
Enabled	Enable Clock Spread Spectrum

Slow Down CPU Duty Cycle (Optional)

The default value is Normal.

Normal	Disable Slow Down CPU Duty Cycle.
12.5%	Set Slow Down CPU Duty Cycle to 12.5%.
25.0%	Set Slow Down CPU Duty Cycle to 25.5%.
37.5%	Set Slow Down CPU Duty Cycle to 37.5%.
50.0%	Set Slow Down CPU Duty Cycle to 50.0%.
62.5%	Set Slow Down CPU Duty Cycle to 62.5%.
75.0%	Set Slow Down CPU Duty Cycle to 75.0%.

• Alarm When CPU Overheat (Optional)

The default value is Disabled.

Disabled	Disable this function.
Enabled	Alarm When CPU Overheat.

• CPU Temperature Select (Optional)

The default value is 75°C / 167°F. (Selectable from 65°C/ 158°F to 95°C / 203°F)

75°C / 167°F	Monitor CPU Temp. at 75°C / 167°F, if Temp. >
	75°C / 167°F will cause system alarming & slow
	down CPU speed.

CPUFan Control (Optional)

The default value is Disabled.

	Disabled	Disable this function.
ſ	Enabled	System will check the CPUAN status.

• CPUFan Fail Alarm (Optional)

The default value is Disabled.

ĺ	Disabled	Disable this function.
I	Enabled	Alarm When CPUFan Failed.

Current CPU Temperature (Optional)

Detect CPU Temperature automatically.

• Current CPUFAN Speed (Optional)

Detect CPU Fan speed status automatically.

Current CPU Vcore A / B ,+3.3V , ±12V , ±5V (Optional)

Detect system's voltage status automatically.

Current Battery Life (Optional)

The default value depends on system monitoring Battery status.

Fail	The Battery (3V) voltage is out of SPEC.
OK	The Battery (3V) voltage is in SPEC.

4.8. POWER MANAGEMENT SETUP

ROM PCI / ISA BIOS POWER MANAGEMENT SETUP AWARD SOFTWARE, INC.

Power Management PM Control by APM Suspend Mode HDD Power Down Suspend Mode option VGA Active Monitor Soft-off by PWR-BTTN Power-Supply Type CPUFAN Off In Suspend * Resume by Alarm ** Date (of Month) Alarm ** Time (hh:mm:ss) Alarm	: Enable : Yes : Disable : Disable : PowerOn Suspend : Disabled : Instant-off : Auto : Enabled : Enabled : O : 00:00:00	** Reload Global Tii IRQ [3-7,9-15] ,NMI Primary IDE 0 Primary IDE 1 Secondary IDE 0 Secondary IDE 1 Floppy Disk Serial Port Parallel Port	mer Events	* * : Enabled : Disabled : Disabled : Disabled : Disabled : Enabled : Enabled : Enabled
		F1 : Help PU	U/PD/+/- shift)F2	: Select Item : Modify : Color

Figure 4.5: Power Management Setup

- * This item will show up when user uses ATX power supply.
- * * These two items will show up when Resume by Alarm is enabled.
- 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.

Suspend Mode

The default value is Disable.

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

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 Option

The default value is PowerOn Suspend. (Suspend to Disk: Optional)

PowerOn Suspend	Set the system to PowerOn Suspend mode
Suspend to Disk	Set the system to Suspend to Disk mode

VGA Active Monitor

The default value is Disabled.

Disabled	Disable monitor VGA activity.
Enabled	Enable monitor VGA activity.

Soft-off by PWR-BTTN

The default value is Instant-Off.

Instant-off	Soft switch ON/OFF for POWER ON/OFF
Delay 4 Sec.	Soft switch ON 4sec. for POWER OFF.

Power-Supply Type

The default value is Auto.

Auto	Auto-detect which type of power supply is used.
P8&P9	Power-Supply Type is P8&P9.
ATX	Power-Supply Type is ATX.

CPUFAN Off In Suspend

The default value is Enabled.

Disabled	Disable this function.
Enabled	Stop CPU FAN when entering Suspend mode.

Resume by Alarm

The default value is Disabled.

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

If the "Resume by Alarm" is Enabled.

Date (of Month) Alarm :	0~31
Time (hh: mm: ss) Alarm:	(0~23) : (0~59) : (0~59)

• IRQ [3-7,9-15] , NMI

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor IRQ [3-7,9-15] for Green event.

Primary IDE 0/1

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Primary IDE 0/1 for Green event.

Secondary IDE 0/1

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Secondary IDE 0/1 for Green event.

Floppy Disk

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor Floppy Disk for Green event.

Serial Port

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor Serial Port for Green event.

Parallel Port

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Parallel Port for Green event.

4.9. PNP/PCI CONFIGURATION

ROM PCI / ISA RIOS

PNP/PCI CONEGURATION

AWARD SOFTWARE INC

PNP OS Installed	· No	Used MEM base addr	· N/A
Resources Controlled by	· Manual	*Used MEM Length	· 8K
Reset Configuration Data	· Disabled	Assign IRQ For USB	: Enabled
IPO-3 accioned to	· I aggev IS A		
IRO-4 assigned to	· I egacy ISA		
IPO-5 accioned to	· PCI/ISA PnP		
IRO-7 assigned to	· I egacy ISA		
IRO-9 assigned to	· PCI/ISA PnP		
IPO-10 assigned to	· PCI/ISA PnP		
IRO-11 assigned to	· PCI/ISA PnP		
IRO-12 assigned to	A 21 vocas I ·		
IRO-14 assigned to	· Legacy ISA		
IRO-15 assigned to	· I egacy ISA		
DMA_0 accioned to	· PCI/ISA PnP		
DMA-1 assigned to	· PCI/ISA PnP		
DMA-3 assigned to	· PCI/ICA PnP	FSC · Onit : ÔÕ ÷ Ö	· Salact Itam
DMA-5 assigned to	· PCI/ISA PnP	F1 · Heln PII/PD/±/-	· Modify
DMA-6 assigned to	· PCI/ISA PnP	F5 · Old Values (Shift)F2	· Color
DMA-7 assigned to	· DCI/ICA DnD	F7 : Load Performance Defaults	

Figure 4.6: PCI Slot Configuration

^{*} This item will show up when Used MEM base addr has been set.

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.

• 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).

Used MEM base addr

The default value is N/A.

N/A	Disable the MEM. block using.
C800 ~ DC00	Select the MEM. block starting address.

Used MEM Length

The default value is 8K.

8K ~ 64K	Select the MEM. block size.	
----------	-----------------------------	--

Assign IRQ For USB

The default value is Enabled.

Enabled	Assign a specific IRQ for USB
Disabled	No IRQ is assigned for USB

4.10. LOAD BIOS DEFAULTS

ROM PCI / ISA BIOS LOAD BIOS DEFAULTS AWARD SOFTWARE, INC.

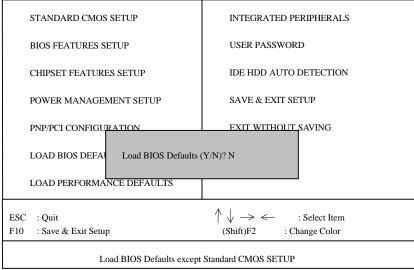


Figure 4.7: Load BIOS Defaults

Load BIOS Defaults

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

4.11. LOAD PERFORMANCE DEFAULTS

ROM PCI / ISA BIOS LOAD SETUP DEFAULTS AWARD SOFTWARE, INC.

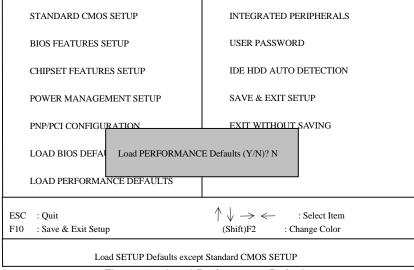


Figure 4.8: Load Performance Defaults

Load PERFORMANCE Defaults

To load PERFORMANCE 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

ROM PCI / ISA BIOS INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.

IDE HDD Block Mode	: Enabled	PS/2 Mouse Power On	: Disabled
IDE Primary Master PIO	: Auto	Keyboard Power On	: Enabled
IDE Primary Slave PIO	: Auto	* KB Power On Multikey	: Enter
IDE Secondary Master PIO	: Auto		
IDE Secondary Slave PIO	: Auto		
IDE Primary Master UDMA	: Auto		
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		
Onboard FDD Controller	: Enabled		
Onboard Serial Port1	: 3F8/IRQ4		
Onboard Serial Port2	: 2F8/IRQ3		
Onboard Parallel Port	: 378/IRQ7	ESC : Quit ¡ P P + Ö	: Select Item
Parallel Port Mode	: SPP	F1 : Help PU/PD/+/-	: Modify
		F5 : Old Values (Shift)F2	: Color
		F7 : Load Performance Defaults	

Figure 4.7: Integrated Peripherals

IDE HDD Block Mode

The default value is Enabled.

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

IDE Primary 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.

^{*} This item will show up when "Keyboard Power On: Multikey" is selected.

• IDE Primary 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.	

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

The default value is Auto.

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

IDE Secondary 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.

• IDE Primary Master UDMA.

The default value is Auto.

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

IDE Primary Slave UDMA.

The default value is Auto.

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

• IDE Secondary Master UDMA.

The default value is Auto.

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

• IDE Secondary Slave UDMA.

The default value is Auto.

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

On-Chip Primary PCI IDE

The default value is Enabled.

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

• On-Chip Secondary PCI IDE

The default value is Enabled.

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

USB Keyboard Support

The default value is Disabled.

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

Onboard FDD Controller

The default value is Enabled.

Enabled	Enable onboard FDD port.
Disabled	Disable onboard FDD 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.	

Parallel Port Mode

The default value is SPP.

SPP	Using Parallel port as Standard Printer Port.	
EPP	Using Parallel port as Enhanced Parallel Port.	
ECP	Using Parallel port as Extended Capabilities Port.	
ECP/EPP	Using Parallel port as ECP/EPP mode.	

• PS/2 Mouse Power on

The default value is Disabled.

Disabled	Disable PS/2 Mouse Power on .
Left Double	Click twice on PS/2 mouse left button to Power on system.
Right Double	Click twice on PS/2 mouse right button to Power on
	system.

Keyboard Power on

The default value is Disabled.

Disabled	Disable Keyboard Power on .
Multikey	Enter multikey combination to Power on system.

KB Power ON Multikey

Enter	Enter from 1 to 5 characters to set the Keyboard Power
	On Password.

You can power on your system by entering password from the Keyboard after setting the "Keyboard power on" jumper (JP1) and password in CMOS Setup.

4.13. 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.

ROM PCI / ISA BIOS USER PASSWORD AWARD SOFTWARE, INC.

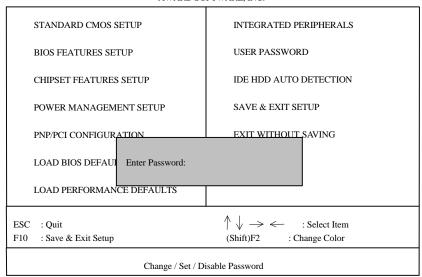


Figure 4.8: Password Setting

Type the password, up to eight characters, and press <Enter>. The password typed now will clear the previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>.

To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

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

4.14. IDE HDD AUTO DETECTION

ROMPCI / ISA BIOS
IDE HDDD AUTO DETECTION
AWARD SOFTWARE, INC.

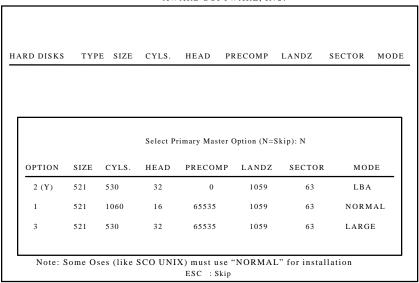


Figure 4.9: IDE HDD Auto Detection

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 number is over 1024, then the user can select LBA mode or LARGER mode for DOS partition larger than 528 MB.

4.15. SAVE & EXIT SETUP

ROM PCI / ISA BIOS SAVE & EXIT SETUP AWARD SOFTWARE, INC.

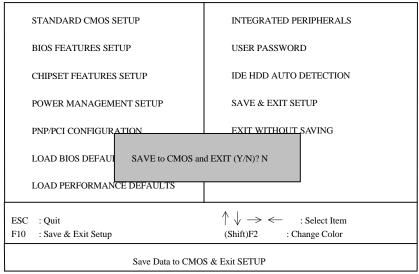


Figure 4.10: Save & Exit Setup

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

Type "N" will return to Setup Utility.

4.16. EXIT WITHOUT SAVING

ROM PCI / ISA BIOS EXIT WITHOUT SAVING AWARD SOFTWARE, INC.

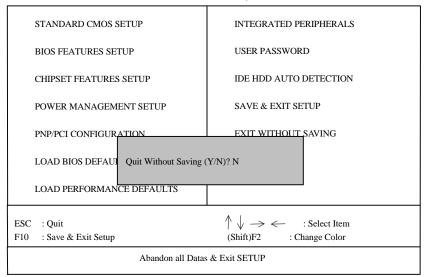


Figure 4.11: Exit Without Saving

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

Type "N" will return to Setup Utility.



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 Träding 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	EN 61000-3-2* EN60555-2	Disturbances in supply systems caused by household appliances and similar			
	industrial, scientific and medical (ISM high frequency equipment		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, portable tools and similar electrical apparatus	⊠ EN 50081-1	Generic emission standard Part 1: Residual, commercial and light industry			
		⊠ 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 equipme 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)			
	Manufa	cturer/Importer				
			Signature : Rex Lin			
	(Stamp)	Date: May. 27, 1998	Name : Rex Lin			