4. BIOS CONFIGURATION

AMI'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 <Del> 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 <Del> 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 <Del> 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	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 AMI 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.

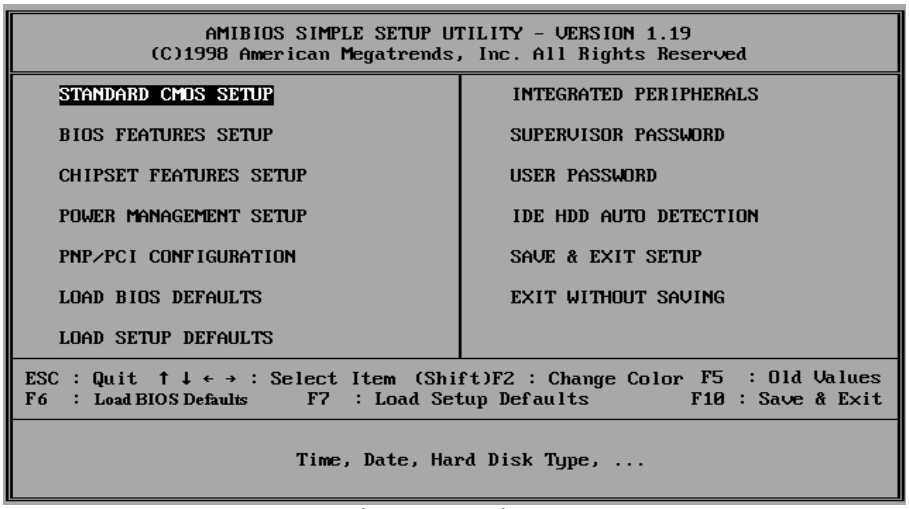


Figure 4.1: Main Menu

- 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 value of the system parameters that the system would be in the best performance 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.

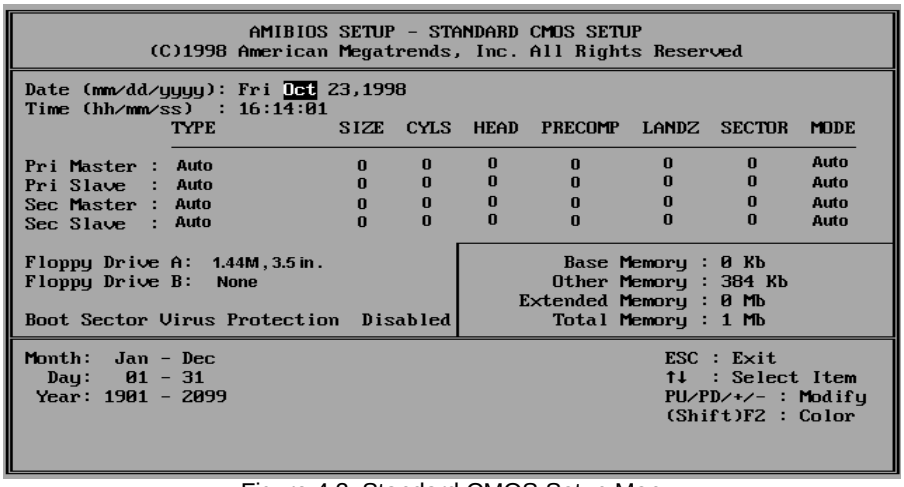


Figure 4.2: Standard CMOS Setup Menu

- 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).
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.

- 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

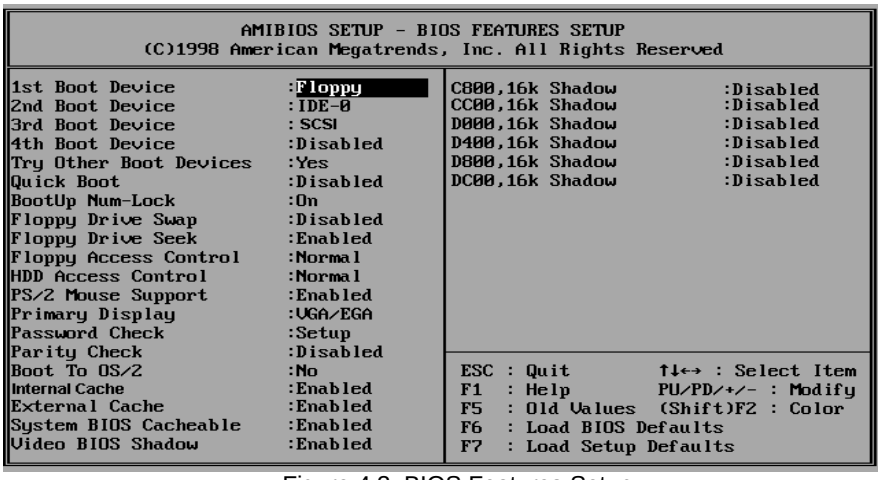


Figure 4.3: BIOS Features Setup

- 1st / 2nd / 3rd / 4th Boot Device

  The default value is Floppy or LS-120 / ZIP or CDROM or SCSI or NET WORK or IDE-0~IDE-3 or Disabled.

Floppy	Boot Device by Floppy.
LS-120 / ZIP	Boot Device by LS-120 / ZIP.
CDROM	Boot Device by CDROM.
SCSI	Boot Device by SCSI.
NET WORK	Boot Device by NET WORK.
IDE-0~IDE-3	Boot Device by IDE-0~IDE-3.
Disabled	Boot Device by Disabled.

- Try Other Boot Devices

  The default value is Yes.

Yes	Enable Try Other Boot Devices function.
No	Disable Try Other Boot Devices function.

- Quick Boot

The default value is Disabled.

Enabled	Enabled Quick Boot Function.
Disabled	Disabled Quick Boot Function.

- Bootup Num-Lock

Default value is On.

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

- Floppy Drive Swap

The default value is Disabled.

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

- Floppy Drive 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.

Enabled	BIOS 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.
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 .

- Floppy Access Control

The default value is Normal.

Normal	Set Floppy Access Control : Normal.
Read Only	Set Floppy Access Control : Read Only.

- HDD Access Control

The default value is Normal.

Normal	Set HDD Access Control : Normal.
Read Only	Set HDD Access Control : Read Only.

- PS/2 Mouse Support

The default value is Enabled.

Enabled	Enabled PS/2 Mouse Support Function.
Disabled	Disabled PS/2 Mouse Support Function.

- Primary Display

The default value is VGA / EGA.

VGA / EGA	Set Primary Display to VGA / EGA.
CGA 40x25	Set Primary Display to CGA 40x25.
CGA 80x25	Set Primary Display to CGA 80x25.
Mono	Set Primary Display to Mono.
Absent	Set Primary Display to Absent.

- Password Check

The default value is Setup.

Setup	Set Password Check to Setup.
Always	Set Password Check to Always.

- Parity Check

The default value is Disable.

Enable	Enable Parity Check Function.
Disable	Disable Parity Check Function.

- Boot To OS/2

The default value is No.

Yes	Enabled Boot To OS/2.
No	Disabled Boot To OS/2.

- Internal Cache

The default value is Enabled.

Enabled	Enabled Internal Cache Function.
Disabled	Disabled Internal Cache Function.

- External Cache

The default value is Enabled.

Enabled	Enabled External Cache Function.
Disabled	Disabled External Cache Function.

- System BIOS Cacheable

The default value is Enabled.

Enabled	Enabled System BIOS Cacheable.
Disabled	Disabled System BIOS Cacheable.

- 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.

- C800 , 16k Shadow / D000 , 16k 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.
Cached	Optional shadow is cached.

4.7. CHIPSET FEATURES SETUP

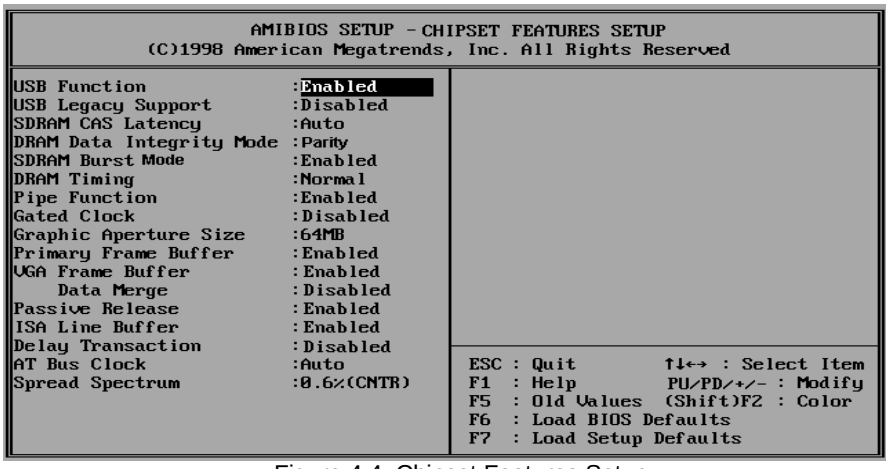


Figure 4.4: Chipset Features Setup

- USB Function

  The default value is Enabled.

Enabled	Enabled USB Function.
Disabled	Disabled USB Function.

- USB Legacy Support.

  The default value is Disabled.

Enabled	Enabled USB Legacy Support Function.
Disabled	Disabled USB Legacy Support Function.

- 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

- DRAM Data Integrity Mode

The default value is Parity.

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

- SDRAM Burst Mode

The default value is Enable.

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

- 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.

- Pipe Function

The default value is Enable.

Enable	Enable Pipe Function.
Disable	Disable Pipe Function.

- Gated Clock

The default value is Disable.

Enable	Enable Gated Clock Function.
Disable	Disable Gated Clock Function.

- Graphics Aperture Size

The default value is 64MB.

4M	Set Graphics Aperture Size to 4MB.
8M	Set Graphics Aperture Size to 8MB.
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.

- Primary Frame Buffer

The default value is Enabled.

Enabled	Enabled Primary frame Buffer.
Disabled	Disable Primary Frame Buffer.

- VGA Frame Buffer

The default value is Enabled.

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

- Data Merge

The default value is Disabled.

Enabled	Enable Data Merge.
Disabled	Disable Data Merge.

- Passive Release

The default value is Enabled.

Enabled	Enable Passive Release.
Disabled	Disable Passive Release.

- ISA Line Buffer

The default value is Enabled.

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

- Delay Transaction

  The default value is Disabled.

Enabled	Enable Delay Transaction.
Disabled	Disable Delay Transaction.

- AT Bus Clock

  The default value is Auto.

7.19MHz	Set AT Bus Clock to 7.19MHz.
PCICLK/2	Set AT Bus Clock to PCICLK/2.
PCICLK/3	Set AT Bus Clock to PCICLK/3.
PCICLK/4	Set AT Bus Clock to PCICLK/4.
PCICLK/5	Set AT Bus Clock to PCICLK/5.
PCICLK/6	Set AT Bus Clock to PCICLK/6.
Auto	Set AT Bus Clock to Auto.

- 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

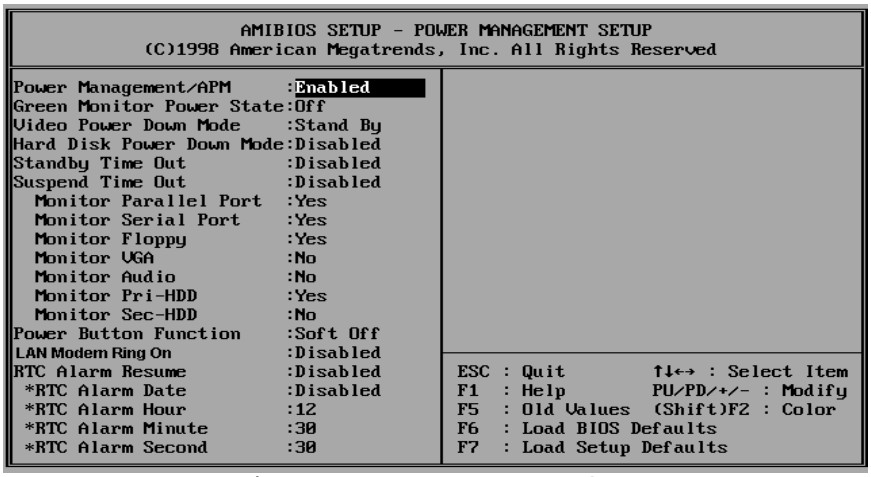


Figure 4.5: Power Management Setup

*These four items will be available when RTC Alarm Resume is set to Enabled.

- Power Management / APM

  The default value is Enabled.

Enabled	Enable Green function.
Disabled	Disable Green function.

- Green Monitor Power State

  The default value is Off.

Off	Set Green Monitor Power State to Off.
Stand By	Set Green Monitor Power State to Stand By.
Suspend	Set Green Monitor Power State to Suspend.

- Video Power Down Mode

  The default value is Stand By.

Disabled	Disabled Video Power Down Mode Function.
Stand By	Set Video Power Down Mode to Stand By.
Suspend	Set Video Power Down Mode to Suspend.

- Hard Disk Power Down Mode

The default value is Disabled.

Disabled	Disabled Hard Disk Power Down Mode Function .
Stand By	Set Hard Disk Power Down Mode to Stand By.
Suspend	Set Hard Disk Power Down Mode to Suspend.

- Standby Time Out

The default value is Disabled.

Disabled	Disabled Standby Time Out Function .
1min	Enabled Standby Time Out between 1min.
5min	Enabled Standby Time Out between 5min.
10min	Enabled Standby Time Out between 10min.
30min	Enabled Standby Time Out between 30min.
1hr	Enabled Standby Time Out between 1hr.
2hr	Enabled Standby Time Out between 2hr.
4hr	Enabled Standby Time Out between 4hr.

- Suspend Time Out

The default value is Disabled.

Disabled	Disabled Suspend Time Out Function .
1min	Enabled Suspend Time Out between 1min.
5min	Enabled Suspend Time Out between 5min.
10min	Enabled Suspend Time Out between 10min.
30min	Enabled Suspend Time Out between 30min.
1hr	Enabled Suspend Time Out between 1hr.
2hr	Enabled Suspend Time Out between 2hr.
4hr	Enabled Suspend Time Out between 4hr.

- Monitor Parallel Port

The default value is Yes.

Yes	Enabled Monitor Parallel Port Function.
No	Disabled Monitor Parallel Port Function.

- Monitor Serial Port

The default value is Yes.

Yes	Enabled Monitor Serial Port Function.
No	Disabled Monitor Serial Port Function.

- Monitor Floppy

The default value is Yes.

Yes	Enabled Monitor Floppy Function.
No	Disabled Monitor Floppy Function.

- Monitor VGA

The default value is No.

Yes	Enabled Monitor VGA Function.
No	Disabled Monitor VGA Function.

- Monitor Audio

The default value is No.

Yes	Enabled Monitor Audio Function.
No	Disabled Monitor Audio Function.

- Monitor Pri-HDD

The default value is Yes.

Yes	Enabled Monitor Pri-HDD Function.
No	Disabled Monitor Pri-HDD Function.

- Monitor Sec-HDD

The default value is No.

Yes	Enabled Monitor Sec-HDD Function.
No	Disabled Monitor Sec-HDD Function.

- Power Button Function

The default value is Soft Off.

Soft Off	Set Power Button Function to Soft Off.
Suspend	Set Power Button Function to Delay 4 sec.

- LAN / Modem Ring On

The default value is Disabled.

Enabled	Enable Ring Resume From Soft Off function.
Disabled	Disable Ring Resume From Soft Off function.

- RTC Alarm Resume

The default value is Disabled.

Enabled	Enable RTC Alarm Resume function.
Disabled	Disable RTC Alarm Resume function.

If RTC Alarm Resume is Enabled.

Date Alarm :	Disabled,1~31
Hour Alarm :	0~23
Minute Alarm :	0~59
Second Alarm :	0~59

4.9. PNP/PCI CONFIGURATION

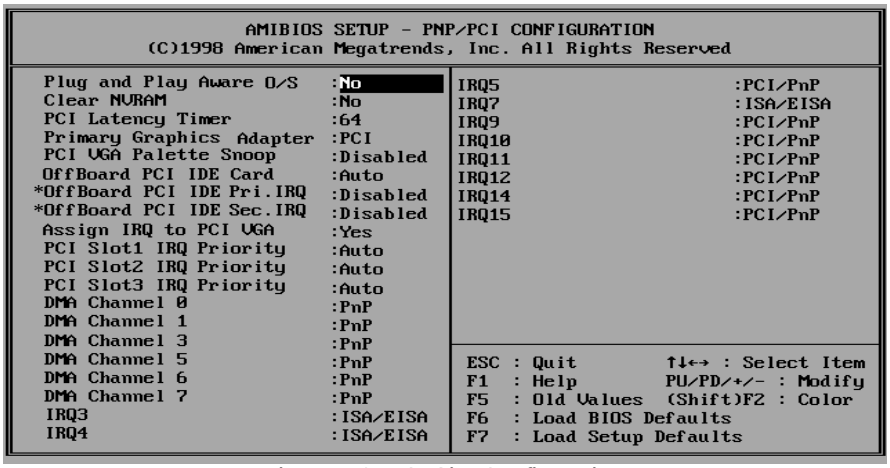


Figure 4.6: PCI Slot Configuration

*These two items will be available when OffBoard PCI IDE Card is set to Slot 1.

- Plug and Play Aware O/S

  The default value is No.

Yes	Enable Plug and Play Aware O/S function.
No	Disable Plug and Play Aware O/S function.

- Clear NVRAM

  The default value is No.

Yes	Enable Clear NVRAM function.
No	Disable Clear NCRAM function.

- PCI Latency Timer

The default value is 64.

32	Set PCI Latency Timer to 32.
64	Set PCI Latency Timer to 64.
96	Set PCI Latency Timer to 96.
128	Set PCI Latency Timer to 128.
160	Set PCI Latency Timer to 160.
192	Set PCI Latency Timer to 190.
224	Set PCI Latency Timer to 224.
248	Set PCI Latency Timer to 248.

- Primary Graphics Adapter

The default value is PCI.

PCI	Set Primary Graphics Adapter to PCI.
AGP	Set Primary Graphics Adapter to AGP.

- PCI VGA Palette Snoop

The default value is Disabled.

Enabled	Enabled PCI VGA Palette Snoop Function.
Disabled	Disabled PCI VGA Palette Snoop Function.

- OffBoard PCI IDE Card

The default value is Auto.

Auto	Set OffBoard PCI IDE Card to Auto.
Slot 1	Set OffBoard PCI IDE Card to Slot 1.
Slot 2	Set OffBoard PCI IDE Card to Slot 2.
Slot 3	Set OffBoard PCI IDE Card to Slot 3.

- OffBoard PCI IDE Pri.IRQ

The default value is Disabled.

Disabled	Disabled OffBoard PCI IDE Pri.IRQ .
INTA	Set OffBoard PCI IDE Pri.IRQ to INTA.
INTB	Set OffBoard PCI IDE Pri.IRQ to INTB.
INTC	Set OffBoard PCI IDE Pri.IRQ to INTC.
INTD	Set OffBoard PCI IDE Pri.IRQ to INTD.
Hardwired	Set OffBoard PCI IDE Pri.IRQ to Hard wired.

- OffBoard PCI IDE Sec.IRQ

The default value is Disabled.

Disabled	Disabled OffBoard PCI IDE Sec.IRQ .
INTA	Set OffBoard PCI IDE Sec.IRQ to INTA.
INTB	Set OffBoard PCI IDE Sec.IRQ to INTB.
INTC	Set OffBoard PCI IDE Sec.IRQ to INTC.
INTD	Set OffBoard PCI IDE Sec.IRQ to INTD.
Hardwired	Set OffBoard PCI IDE Sec.IRQ to Hard wired.

- Assign IRQ to PCI VGA

The default value is Yes.

Yes	Enabled Assign IRQ to PCI VGA Function.
No	Disabled Assign IRQ to PCI VGA Function.

- PCI Slot1 / Slot2 / Slot3 IRQ Priority

The default value is Auto.

3~12	Set PCI Slot1 / Slot2 / Slot3 IRQ Priority between 3 to 12.
Auto	Set PCI Slot1 / Slot2 / Slot3 IRQ Priority to Auto.

- DMA(0,1,3,5,6,7)

  The default value is PnP.

ISA/EISA	The resource is used by ISA/EISA device.
PnP	The resource is used by PnP device.

- IRQ (3,4,5,7,9,10,11,12,14,15)

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

ISA/EISA	The resource is used by ISA/EISA device.
PCI/PnP	The resource is used by PCI/PnP device.

4.10. LOAD BIOS DEFAULTS

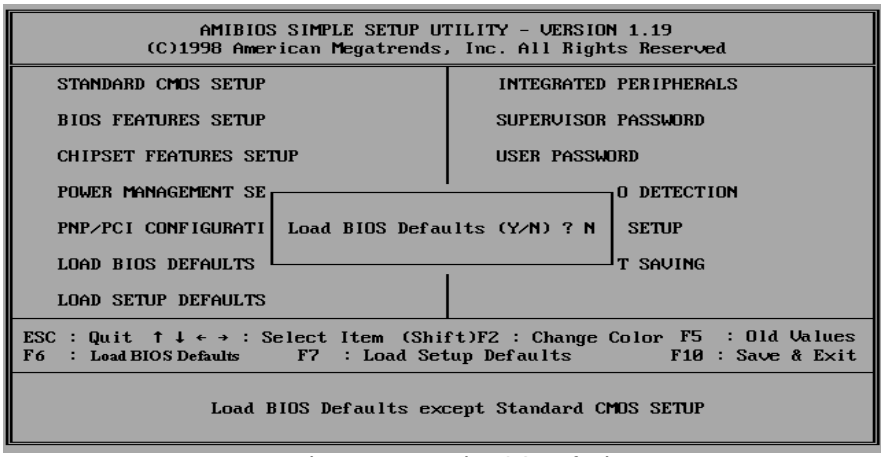


Figure 4.7: Load BIOS Defaults

- Load BIOS Defaults

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

4.11. LOAD SETUP DEFAULTS

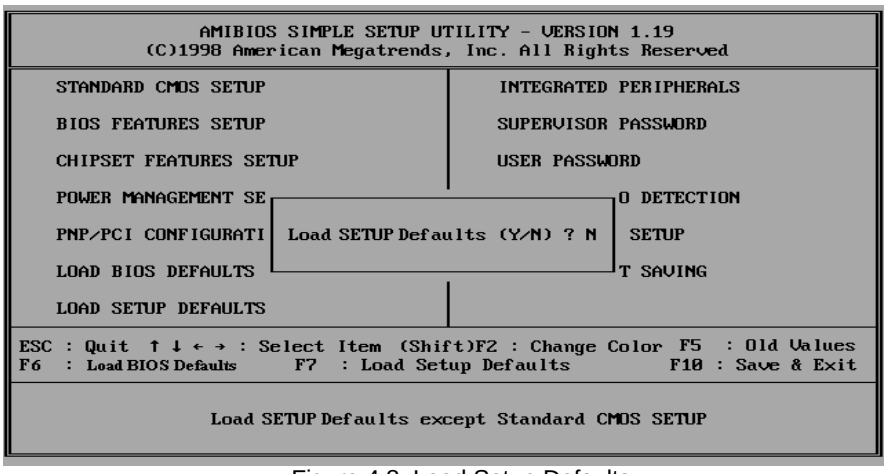


Figure 4.8: Load Setup Defaults

- 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

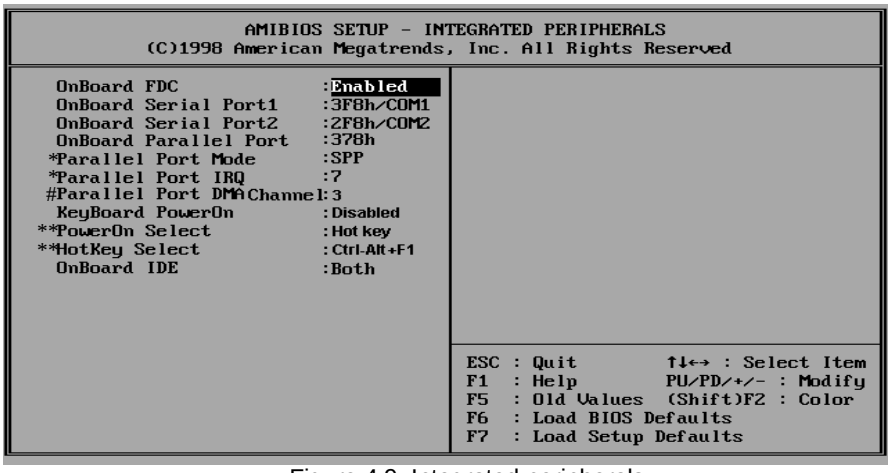


Figure 4.9: Integrated peripherals

* These two items will disabled when OnBoard Parallel Port is set to Disabled.
  Parallel Port IRQ will disabled when OnBoard Parallel Port is set to Auto.

The item will available when Parallel Port Mode is set to ECP

** These two items will show up when KeyBoard PowerON is set to Enabled

- OnBoard FDC

  The default value is Enabled.

Enabled	Enable onBoard FDC Function.
Disabled	Disable onBoard FDC Function.
Auto	Set OnBoard FDC Function is Auto.

- OnBoard Serial Port 1

The default value is 3F8h/COM1.

Auto	BIOS will automatically setup the port 1 address.
3F8h/COM1	Enable onBoard Serial port 1 and address is 3F8h.
2F8h/COM2	Enable onBoard Serial port 1 and address is 2F8h.
3E8h/COM3	Enable onBoard Serial port 1 and address is 3E8h.
2E8h/COM4	Enable onBoard Serial port 1 and address is 2E8h.
Disabled	Disable onBoard Serial port 1.

- OnBoard Serial Port 2

The default value is 2F8h/COM2.

Auto	BIOS will automatically setup the port 2 address.
3F8h/COM1	Enable onBoard Serial port 2 and address is 3F8h.
2F8h/COM2	Enable onBoard Serial port 2 and address is 2F8h.
3E8h/COM3	Enable onBoard Serial port 2 and address is 3E8h.
2E8h/COM4	Enable onBoard Serial port 2 and address is 2E8h.
Disabled	Disable onBoard Serial port 2.

- OnBoard Parallel port

The default value is 378h.

378h	Enable onBoard LPT port and address is 378h.
278h	Enable onBoard LPT port and address is 278h.
3BCh	Enable onBoard LPT port and address is 3BCh.
Auto	Set OnBoard LPT port is Auto.
Disabled	Disable onBoard LPT port.

- Parallel Port Mode

  The default value is SPP.

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

- Parallel Port IRQ

  The default value is 7.

7	Set Parallel Port IRQ to 7.
5	Set Parallel Port IRQ to 5.

- Parallel Port DMA Channel

  The default value is 3.

1	Set Parallel Port DMA Channel to 1.
3	Set Parallel Port DMA Channel to 3.

- KeyBoard PowerOn

  The default value is Disabled.

Enabled	Enabled KeyBoard PowerOn.
Disabled	Disabled KeyBoard PowerOn.

- PowerOn Select

  The default value is Hot Key.

Hot Key	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) .
Pass Word	You can power on your system by entering the keyboard power on password. If your password consists of more than one character, you have to press the ENTER key after entering the password.

- HotKey Select

  The default value is Ctrl-Alt-F1.

Ctrl-Alt-F1~F12	Set HotKey Select Function to Ctrl-Alt-F1~F12.
Ctrl-Alt-Insert	Set HotKey Select Function to Ctrl-Alt-Insert.
Ctrl-Alt-Del	Set HotKey Select Function to Ctrl-Alt-Del.
Ctrl-Alt-LShift	Set HotKey Select Function to Ctrl-Alt-LShift.
Ctrl-Alt-RShift	Set HotKey Select Function to Ctrl-Alt-RShift.

- OnBoard IDE

  The default value is Both.

Both	Set OnBoard IDE is Both.
Disabled	Disabled OnBoard IDE Function.
Primary	Set OnBoard IDE is Primary.
Secondary	Set OnBoard IDE is Secondary.

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.

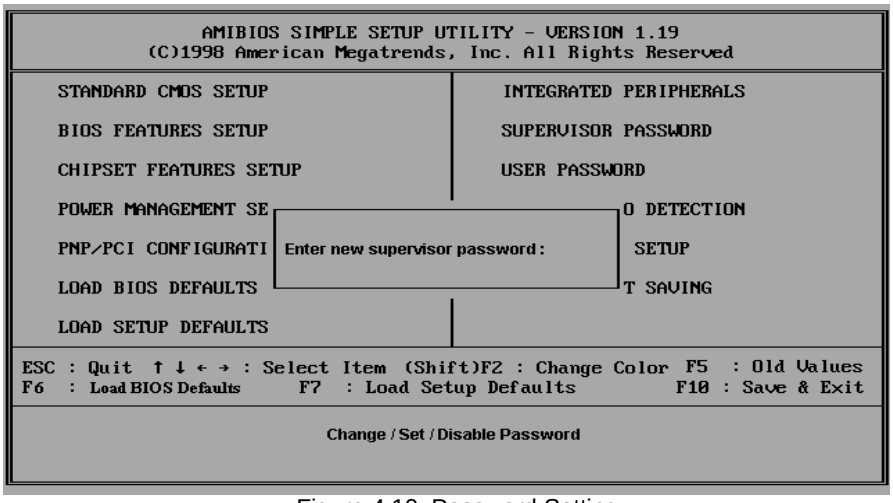


Figure 4.10: Password Setting

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

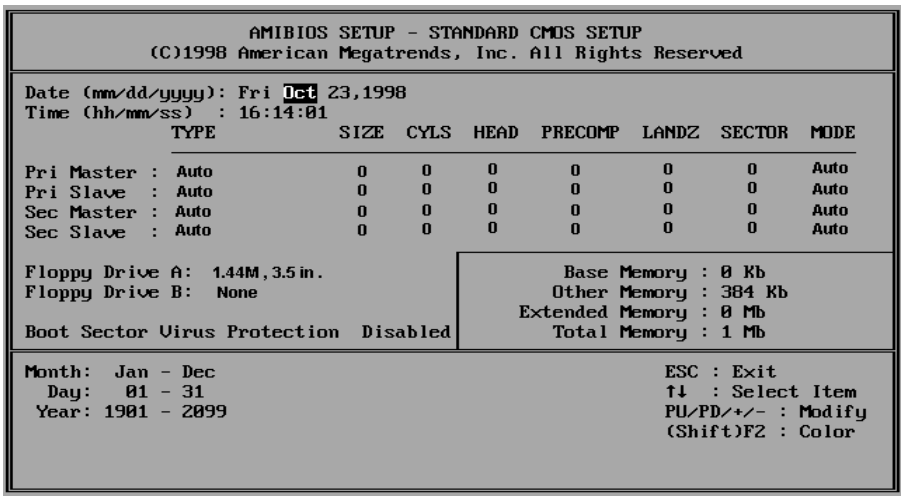


Figure 4.11: IDE HDD Auto Detection

The screen will display the ¡ §tandard CMOS Setup ¡ o˙nce you enter the menu.

User won' t need to make any changes to items in the menu. The system will auto detect the HDD and save it in the CMOS setup menu.

4.15. SAVE & EXIT SETUP

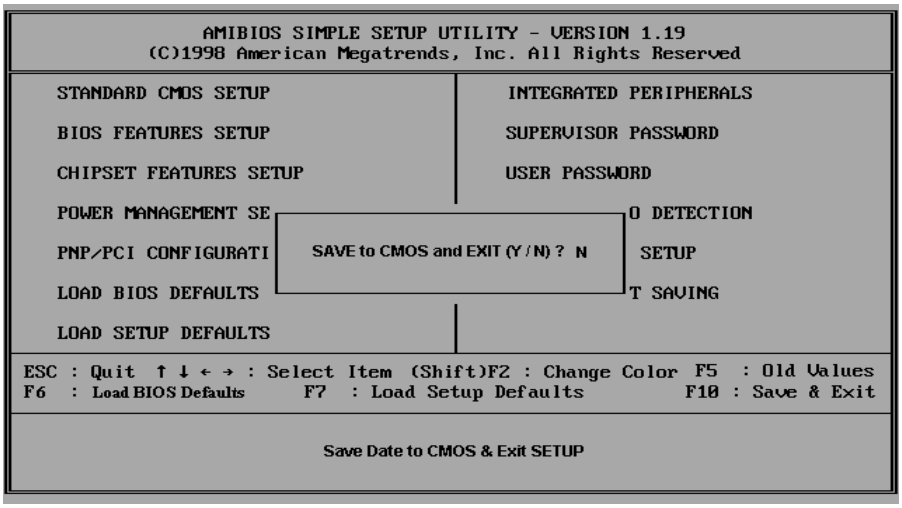


Figure 4.12: Save & Exit Setup

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

Type "N" will return to Setup Utility.

4.16. EXIT WITHOUT SAVING

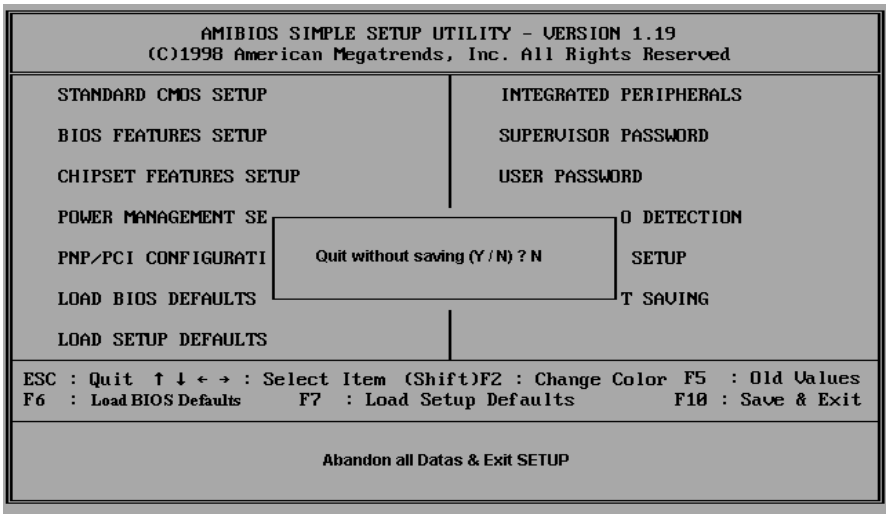


Figure 4.13: Exit Without Saving

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 "?PCI Universal Serial Bus".

4.Please press "Refresh" buttom.

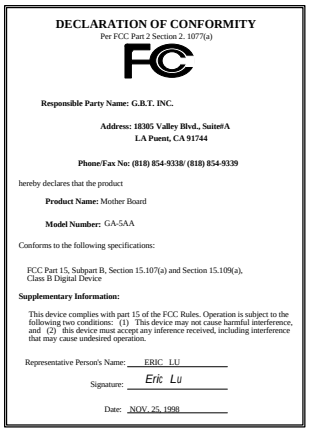
5.System will request your USB Driver under the directory c:\windows\system\openhci.sys

6.Choose this directory and press "OK", System will find Open HCI' 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.



DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)

Responsible Party Name: G.B.T. INC.

Address: 18305 Valley Blvd., Suite#A
LA Puent, CA 91744

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: Mother Board

Model Number: GA-5AA

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a), Class B Digital Device

Supplementary Information:

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

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: NOV. 25, 1998

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)

Mother Board
GA-5AA

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, portable tools and similar electrical apparatus	☒ **EN 50081-1** ☒ **EN 50082-1**	Generic emission standard Part 1: Residual, commercial and light industry 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**		CE (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

Signature : *Rex Lin*

(Stamp)

Date : NOV. 25, 1998

Name : Rex Lin