

BIOS Setup

The mainboard comes with an Award BIOS chip that contains the ROM Setup information of your system. This chip serves as an interface between the processor and the rest of the mainboard's components. This section explains the information contained in the Setup program and tells you how to modify the settings according to your system configuration.

CMOS Setup Utility

ROM PCI/ISA BIOS (2A6LFF0A) 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 CONFIGURATION	SAVE & EXIT SETUP
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING
LOAD SETUP DEFAULTS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color

A Setup program, built into the system BIOS, is stored in the CMOS RAM. This Setup utility program allows changes to the mainboard configuration settings. It is executed when the user changes system configuration; user changes system backup battery; or the system detects a configuration error and asks the user to run the Setup program. Use the arrow keys to select and press Enter to run the selected program. The **F5: Menu in BIOS** is a convenient feature for users to refer the board settings in this BIOS top level menu.

Standard CMOS Setup

ROM PCI/ISA BIOS (2A6LFF0A)									
STANDARD CMOS SETUP									
AWARD SOFTWARE, INC.									
Date (mm:dd:yy) : Mon, May 10 1999									
Time (hh:mm:ss) : 9 : 25 : 52									
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
Primary Master	: None	0	0	0	0	0	0	0	-----
Primary Slave	: None	0	0	0	0	0	0	0	-----
Secondary Master	: None	0	0	0	0	0	0	0	-----
Secondary Slave	: None	0	0	0	0	0	0	0	-----
Drive A : None									
Drive B : None									
Video : EGA/VGA									
Halt On : All Errors									
						Base Memory: 640K			
						Extended Memory: 31744K			
						Other Memory: 384K			
						Total Memory: 32768K			
ESC : Quit									
F1 : Help									
↑ ↓ ← → : Select Item									
(Shift)F2 : Change Color									
PU/PD/+/- : Modify									

The Standard CMOS Setup screen is displayed above. Each item may have one or more option settings. The system BIOS automatically detects memory size, thus no changes are necessary. Use the arrow keys to highlight the item and then use the PgUp or PgDn keys to select the value you want in each item.

Hard Disk Configurations

TYPE: Select User to fill the remaining fields. Select Auto to detect the HDD type automatically (recommended).

SIZE: The hard disk size. The unit is Mega Bytes.

CYLS: The cylinder number of the hard disk.

HEAD: The read/write head number of hard disk.

PRECOMP: The cylinder number at which the disk drive changes the write current.

LANDZ: The cylinder number that the disk drive heads (read/write) are seated when the disk drive is parked.

SECTOR: The sector number of each track defined on the hard disk.

MODE: Select Auto to detect the mode type automatically. If your hard disk supports the LBA mode, select LBA or Large. However,

if your hard disk cylinder is more than 1024 and does not support the LBA function, set at Large. Select Normal if your hard disk supporting cylinders is below 1024.

Floppy 3 Mode Support

This feature allows you to install a 3.5" (1.2MB) NEC 9801 floppy drive.

The options are: Disabled (Default), Drive A.

Software Turbo Speed

The BIOS supports Software Turbo Speed feature. Instead of pressing the Turbo Speed Button on the front panel, simply press the **Alt, Ctrl, and +** keys at the same time to enable the Turbo Speed feature; and press the **Alt, Ctrl, and -** keys at the same time to disable the feature.

BIOS Features Setup

ROM PCI/ISA BIOS (2A6LFF0A) BIOS FEATURES SETUP AWARD SOFTWARE, INC.		
Anti-Virus Protection	: Enabled	Video BIOS Shadow : Enabled
CPU Internal Cache	: Enabled	Processor Number Feature : Enabled
External Cache	: Enabled	
CPU L2 Cache ECC Checking	: Enabled	
CPU Data Update	: Enabled	
Boot From LAN First	: Enabled	
Boot Sequence	: A,C,SCSI	
Swap Floppy Drive	: Disabled	
Boot Up Floppy Seek	: Enabled	
Boot Up NumLock Status	: On	
Gate A20 Option	: Fast	
Typematic Rate Setting	: Disabled	
Typematic Rate (Chars/Sec)	: 6	
Typematic Delay (Msec)	: 250	
Security Option	: Setup	
PCI/VGA Palette Snoop	: Disabled	ESC : Quit l+- : Select Item
OS Select For DRAM > 64MB	: Non-OS2	F1 : Help PU/PD/+/- : Modify
HDD S.M.A.R.T. capability	: Disabled	F5 : Old Values (Shift)F2 : Color
Report No FDD For WIN 95	: Yes	F6 : Load BIOS Defaults
		F7 : Load Setup Defaults

Anti-Virus Protection

This feature starts the virus scan tool to detect if boot virus in boot sector of the first hard disk drive when booting up.

The options are: Enabled (Default), Disabled.

CPU Internal Cache

When enabled, improves the system performance. Disable this item when testing or trouble-shooting. The options are: Enabled (Default), Disabled.

External Cache

When enabled, supports an optional cache SRAM. This feature allows you to disable the cache function when the system performance is unstable to run some software. The options are: Enabled (Default), Disabled.

CPU L2 Cache ECC Checking

This feature allows users to activate the CPU's Level 2 cache's error check and correction function. The options are: Enabled (Default), Disabled.

CPU Data Update

This option allows the system BIOS to update CPU's microcode.
The options are: Enabled (Default), Disabled.

Boot From LAN First

This feature makes the system bootable by the remote server via LAN. The options are: Disabled (Default), Enabled.

Boot Sequence

Allows the system BIOS to first try to boot the operating system from the selected disk drive. The options are: A, C, SCSI (Default); C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; C Only; LS/ZIP, C.

Swap Floppy Drive

Allows you to switch the order in which the operating system accesses the floppy drives during boot up. The options are: Enabled, Disabled (Default).

Boot Up Floppy Seek

When enabled, assigns the BIOS to perform floppy diskette drive tests by issuing the time-consuming seek commands. The options are: Enabled (Default), Disabled.

Boot Up Numlock Status

When set to On, allows the BIOS to automatically enable the Num Lock Function when the system boots up. The options are: On (Default), Off.

Gate A20 Option

When set at Fast, allows a faster access response under Protected mode.
The options are: Normal (Default), Fast.

Typematic Rate Setting

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The term typematic means that when a keyboard key is held down, the character is repeatedly entered until the key is released.
The options are: Disabled (Default), Enabled.

Typematic Rate (Chars/Sec)

This feature is available only if the above item, Typematic Rate Setting, is set at Enabled. Sets the rate of a character repeat when the key is held down.
The options are: 6 (Default), 8, 10, 12, 15, 20, 24, 30.

Typematic Delay (Msec)

This feature is available only if the item, Typematic Rate Setting, is set at Enabled. Sets the delay time before a character is repeated.
The options are: 250 (Default), 500, 750, 1000 millisecond.

Security Option

Allows you to set the security level of the system.
The options are: Setup (Default), System.

PCI/VGA Palette Snoop

Set this feature to be enabled if any ISA adapter card installed in the system requires the VGA palette snoop function.
The options are: Disabled (Default), Enabled.

OS Select For DRAM > 64MB

If your operating system (OS) is OS/2, select the option OS2. Otherwise, stay with the default setting Non-OS2.
The options are: Non-OS2 (Default), OS2.

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

S.M.A.R.T. stands for Self-Monitoring and Analysis Reporting Technology which allows your hard disk drive to report any read/write errors and issues a warning with LDCM installed.
The options are: Disabled (Default); Enabled.

Report No FDD For WIN 95

When the field under the Standard CMOS Setup Menu for Drive A and/or Drive B is set at None, users must set this field is set at Yes for it to function properly. Otherwise, set at No, even if field for Drive A and/or Drive B is set at None, system will still detect and recognize of a floppy drive(s).

The options are: No, Yes (Default).

Video BIOS Shadow

Allows the BIOS to copy the video ROM code of the add-on video card to the system memory for faster access.

The options are: Enabled (Default), Disabled.

Processor Number Feature

If a Pentium III processor is installed on this mainboard, the system BIOS will allow other utilities to access the Intel Pentium III serial number while this feature set at Enabled. The options are: Enabled (Default), Disabled.

Chipset Features Setup

ROM PCI/ISA BIOS (2A6LFF0A) CMOS SETUP UTILITY CHIPSET FEATURES SETUP	
SDRAM Controlled by : SPD	Auto Detect DIMM/PCI Clk : Enabled
SDRAM Slot-1 Timing : 3/3/6/3	CPU Host/PCI Clock (MHz) : Default
SDRAM Slot-2 Timing : 3/3/6/3	CPU Warning Temperature : Disabled
SDRAM Slot-3 Timing : 3/3/6/3	Current System Temp. :
SDRAM Slot-4 Timing : 3/3/6/3	Current CPU Temperature :
SDRAM Clock Selection : Auto (SPD)	Current CPU FAN Speed :
DRAM Data Integrity Mode : ECC	Current Chassis FAN Speed:
Memory Hole At 15Mb Addr.: Disabled	VCore : VIO :
Read Around write : Disabled	+5 V : +12 V :
Concurrent PCI/Host : Enabled	-12 V :- -5 V :-
Video RAM Cacheable : Disabled	VBAT(V): 5VSB(V):
AGP Aperture Size : 64M	
AGP-2X Mode : Enabled	
C2D Post-Write Buffer : 4-Level	
Read DRAM Prefetch Buf : 4-Level	
DRAM Read Request Rate : 3T	
OnChip USB : Enabled	ESC : Quit l-- : Select Item
USB Keyboard Support : Disabled	F1 : Help PU/PD/+/- : Modify
	F5 : Old Values (Shift)F2 : Color
	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

SDRAM Controlled by

This tells whether SDRAM's timing should be controlled automatically by the system or from settings by the user. If manual is selected, SDRAM timing will be determined from the following option.

The options are: SPD (Default), Manual.

SDRAM slot-1/2/3/4 Timing

If manual is selected in the above option, the system will use settings in this option.

The options are 2, 3, 6 for each slot and the default value is 3/3/6/3.

SDRAM Clock Selection

This feature provides software configurability of selecting between ECC (ECC generation and checking/correction) mode or non-ECC mode of operation of the DRAM interface.

The options are: Auto (SPD) (Default), 66MHz, 100MHz, 133MHz.

DRAM Data Integrity Mode

This feature provides software configurability of selecting between ECC (ECC generation and checking/correction) mode or non-ECC mode of operation of the DRAM interface.

The options are: Non-ECC, ECC (Default).

Memory Hole at 15Mb Addr.

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. The user information peripherals that need to use this area of system memory usually discusses their memory requirements. The options are: Disabled (Default); Enabled.

Read Around Write

This feature speeds up data read performance when it stays Enabled.

The options are: Enabled, Disabled (Default).

Concurrent PCI/Host

If each bus master cycle does not take the same path, it allows for multiple bus master cycles to be activated at the same time.

The options are: Disabled, Enabled (Default).

Video RAM Cacheable

Selecting Enabled allows caching of the video BIOS ROM at C0000h to C7FFFh, resulting in better video performance. However, if any program writes to this memory area, a system error may result.

The options are: Disabled (Default), Enabled.

AGP Aperture Size

It allows you to select the main memory frame size for AGP use.

The options are 128, 4, 8, 16, 32, 64 (Default), 128, 256M.

AGP-2X Mode

This feature allows user to select the AGP mode to be 1x or 2x when an AGP add-in card is installed. However, when set at Enabled

and the AGP card only support 1x mode, the system will fall back 1x mode automatically.

The options are: Enabled (Default), Disabled.

C2D Post -Write Buffer

When CPU write to DRAM will keep in the chipset buffer first. The cycle is quick than direct write to DRAM. The 4-Level will get more buffer than the 1-Level does. The options are: 4-Level (Default), 1-Level.

Read DRAM Prefetch Buf

The chipset will give different priority for DRAM blocks. If the access is more frequently. The chipset will prefetch the DRAM data automatically. The 4-Level will get more buffer than the 1-Level does.

The options are: 4-Level (Default), 1-Level.

OnChip USB

When enabled, this feature allows you to use the onboard USB feature. The options are: Enabled (Default), Disabled.

USB Keyboard Support

This feature will appear only if the above item Onchip USB is set at Enabled. Set this feature to Enabled to use a USB keyboard with your system. The options are: Disabled (Default), Enabled.

Auto Detect DIMM/PCI Clk

Set this field at Enabled to allow auto detection of DIMM clock speed.

The options are: Enabled (Default), Disabled.

CPU Host/PCI Clock (MHz)

Select *Default* or select a timing combination for the CPU and the PCI bus. When set to *Default*, BIOS uses the actual CPU and PCI bus clock values.

The options are: Default (Default), 66.8/33.4 MHz, 75/37.5 MHz, 83.3/41.7 MHz, 90/30 MHz, 100/33.3 MHz, 105/35 MHz, 110/36.7 MHz, 112/37.3 MHz, 115/38.3 MHz, 120/40 MHz,

124/41.3 MHz, 124/31 MHz, 133/33.3MHz, 140/35 MHz, 150/37.5 MHz.

CPU Warning Temperature

This feature allows you to set the temperature to slow down the CPU clock frequency.

The options are: Disabled (Default), 50°C/122°F, 53°C/127°F, 56°C/133°F, 60°C/140°F, 63°C/145°F, 66°C/151°F, 70°C/158°F.

Current System Temp. / Current CPU Temperature / Current CPU FAN Speed / Current Chassis FAN Speed/ VCore / VIO / +5V / +12 CV / -12V / -5V / VBAT (V) / 5VSB(V)

These items allow end users and technicians to monitor data provided by the BIOS on this mainboard. It is not user-configurable.

Power Management Setup

ROM PCI/ISA BIOS (2A6LFF0A) POWER MANAGEMENT SETUP AWARD SOFTWARE, INC.			
Power Management	: User Define	Primary INTR	: ON
Video Off Option	: Suspend -> Off	IRQ3 (COM 2)	: Primary
Video Off Method	: DPMS Support	IRQ4 (COM 1)	: Primary
MODEM Use IRQ	: 3	IRQ5 (LPT 2)	: Primary
Soft-Off by PWRBTN	: Delay 4 Sec	IRQ6 (Floppy Disk)	: Primary
HDD Power Down	: Disable	IRQ7 (LPT 1)	: Primary
Doze Mode	: Disable	IRQ8 (RTC Alarm)	: Disabled
Suspend Mode	: Disable	IRQ9 (IRQ2 Redir)	: Secondary
PWRON After PWR-Fail	: Former-Sts	IRQ10 (Reserved)	: Secondary
VGA	: OFF	IRQ11 (Reserved)	: Secondary
LPT & COM	: LPT/COM	IRQ12 (PS/2 Mouse)	: Primary
HDD & FDD	: ON	IRQ13 (Coprocessor)	: Primary
DMA/master	: OFF	IRQ14 (Hard Disk)	: Primary
Wake Up On LAN	: Enabled	IRQ15 (Reserved)	: Disabled
Wake On PCI-PM Event	: Disabled		
Modem Ring Resume	: Enabled		
RTC Alarm Resume	: Disabled		

Power Management

This item allows you to adjust the power management features. Select Disable for disabling global power management features. Select User Defined for configuring your own power management features.

MIN Saving initiates all predefined timers in their minimum values. MAX Saving, on the other hand, initiates maximum values. The options are: User Define (Default), MIN Saving, MAX Saving.

Video Off Option

This feature provides the selections of the video display power saving mode. The option Suspend - Off allows the video display to go blank if the system enters Suspend mode. The option All Modes - Off allows the video display to go blank if the system enters Doze mode or Suspend mode.

The option Always On allows the video display to stay in Standby mode even when the system enters Doze or Suspend mode.

The options are: Suspend - Off (Default), All Modes -> Off, Always On.

Video Off Method

The option V/H SYNC+Blank allows the BIOS to blank off screen display by turning off the V-Sync and H-Sync signals sent from add-on VGA card. DPMS Supported allows the BIOS to blank off screen display by your add-on VGA card which supports DPMS (Display Power Management Signaling function). Blank Screen allows the BIOS to blank off screen display by turning off the red-green-blue signals. The options are: V/H SYNC+Blank, DPMS Support (Default), Blank Screen.

MODEM Use IRQ

This feature allows you to select the IRQ# of the system that is the same IRQ# as the modem use.

The options are: NA, 3 (Default), 4, 5, 7, 9, 10, 11.

Soft-Off By PWRBTN

This item is designed for the system case that uses an ATX power supply. The option Delay 4 Sec. allows the system to have a power-off delay of 4 seconds upon pressing the power button. The option Instant-Off allows the system to shutdown immediately upon pressing the power button.

The options are: Delay 4 Sec. (Default); Instant-Off.

HDD Power Down

Selecting Disable will turn off the hard disk drive (HDD) motor. Selecting 1 Min..15 Min allows you define the HDD idle time before the HDD enters the Power Saving Mode. The option When Suspend lets the BIOS turn the HDD motor off when system is in Suspend mode.

The options 1 Min..15 Min and When Suspend will not work concurrently. When HDD is in the Power Saving Mode, any access to the HDD will wake the HDD up.

The options are: Disable (Default), 1 Min..15 Min.

Doze Mode

When disabled, the system will not enter Doze mode. The specified time option defines the idle time the system takes before it enters Doze mode.

The options are: Disable (Default), 10, 20, 30, 40 Sec, 1, 2, 4, 6, 8, 10, 20, 30, 40 Min, 1 Hr.

Suspend Mode

When disabled, the system will not enter Suspend mode. The specified time option defines the idle time the system takes before it enters Suspend mode. The options are Disable (Default), 10, 20, 30, 40 Sec, 1, 2, 4, 6, 8, 10, 20, 30, 40 Min, 1 Hr.

PWRON After PWR-Fail

When the system is shut down owing to the power failure, the system will not be back to power on by itself. This feature allows you to set the system back to which power status of the system when the system power is resumed.

The options are Former-Sts (Default), Off.

VGA

ON enables the power management timers when a no activity events is detected in the VGA. *OFF* disables the PM timer even if a no activity event is detected. The options are: OFF (Default), ON.

LPT & COM

LPT/COM enables the power management timers when a no activity event is detected in the LPT and COM ports. *LPT (COM)* enables the power management timers when a no activity event is detected in the LPT (COM) ports. *NONE* to disable the PM timer even if a no activity event is detected. The options are: LPT/COM (Default), LPT, COM, NONE.

HDD & FDD

ON will enable the power management timers when no activity event is detected in the hard drive and floppy drive. *OFF* disables the PM timer even if no activity event is detected. The options are: OFF, ON (Default).

DMA/master

To set this feature at ON activates that Power Management feature (PM) wake-up event for the DMA or bus master (of the LAN card or/and SCSI card). The options are: OFF (Default), ON.

Wake Up On LAN

When set at Enabled, an input signal comes from the other client/server on the LAN awakes the system from a soft off state if connected over LAN.

The options are Disabled (Default) or Enabled.

Wake Up on PCI-PM Event

When set at Enabled, any PCI-PM event awakes the system from a PCI-PM controlled state.

The options are Disabled (Default) or Enabled.

Modem Ring Resume

An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem) awakens the system from a soft off state.

The options are: Enabled (Default), Disabled.

RTC Alarm Resume

Enabled allows you to set the time the system will be turned on from the system power-off status. The options are: Enabled, Disabled (Default).

Primary INTR

When the Primary interrupt (the Primary option in the feature of IRQ# Activity) generates will make the Power Management feature (PM) wake-up event on. If set at OFF, all the primary interrupt will not wake-up the system. The options are: OFF, ON (Default).

IRQ# Activity

After the time period which you set at in Suspend Mode Feature, the system advances from Doze Mode to Suspend Mode in which the CPU clock stops and the screen display is off. At this moment,

if the IRQ activity which is defined as Primary occurs, the system goes back to Full-on Mode directly.

If the IRQ activity which is defined as Secondary takes place, the system enters another low power state, Dream Mode, in which the system will act as Full-on Mode except that the screen display remains off until the corresponding IRQ handler finishes, then back to Suspend Mode.

The options for IRQ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15 are: Primary, Secondary, Disabled. The default value for IRQ 8, 15 is: Disabled. The default value for IRQ 3, 4, 5, 6, 7, 12, 13, 14 is: Primary. The default value for IRQ 9, 10, 11 is: Secondary.

PNP/PCI Configuration

ROM PCI/ISA BIOS (2A6LFF0A) PNP/PCI CONFIGURATION AWARD SOFTWARE, INC.	
PNP OS Installed : No	CPU to PCI Write Buffer : Enabled
Resources Controlled By : Auto	PCI Dynamic Bursting : Enabled
Reset Configuration Data : Disabled	PCI Master 0 WS Write : Enabled
	PCI Delay Transaction : Disabled
	PCI IRQ Activated By : Level
	Assign IRQ For USB : Enabled
	Assign IRQ For VGA : Enabled
	Assign IRQ For ACPI : IRQ10
	Slot 1/5 Use IRQ No.: Auto
	Slot 2 Use IRQ No. : Auto
	Slot 3 Use IRQ No. : Auto
	Slot 4 Use IRQ No. : Auto
	ESC : Quit F1-- : Select Item
	F1 : Help PU/PD/+/- : Modify
	F5 : Old Values (Shift)F2 : Color
	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

PNP OS Installed

If your operating system is a Plug-and-Play one, such as Windows NT, Windows 95, select Yes. The options are: No (Default), Yes.

Resources Controlled By

If set at Auto, the BIOS arranges all system resources. If there exists conflict, select Manual. The options are: Auto (Default), Manual. The manual options for IRQ- / DMA- assigned to are: Legacy ISA, PCI/ISA PnP.

Reset Configuration Data

When enabled, allows the system to clear the last BIOS configuration data and reset with the default data. The options are: Enabled, Disabled (Default).

CPU to PCI Write Buffer

When enabled, allows data and address access to the internal buffer of the system controller; so the processor can be released from the waiting state. The options are: Enabled (Default), Disabled.

PCI Dynamic Bursting

When enabled, the PCI controller allows Bursting PCI transfer if the consecutive PCI cycles come with the address falling in same 1KB space. This improves the PCI bus throughput.

The options are: Disabled, Enabled (Default).

PCI Master 0 WS Write

When enabled, allows a zero-wait-state-cycle delay when the PCI master drive writes data to DRAM.

The options are: Enabled (Default), Disabled.

PCI Delay Transaction

The chipset has an embedded 32-bit posted write buffer to support delay transaction cycles. Select Enabled to support compliance with PCI specification version 2.1.

The options are: Disabled (Default), Enabled.

PCI IRQ Activated By

Leave the IRQ trigger set at *Level* unless the PCI device assigned to the interrupt specifies Edge-triggered interrupts.

The options are: Level (Default); Edge.

Assign IRQ For USB

If your USB device does not need an IRQ, select Disabled; therefore, an IRQ can be released for the system use.

The options are: Disabled; Enabled (Default).

Assign IRQ For VGA

If your PCI VGA card does not need an IRQ, select Disabled; therefore, an IRQ can be released for the system use.

The options are: Disabled (Default); Enabled.

Assign IRQ For ACPI

Assign the IRQ used by your system ACPI device.

The options are: IRQ9, IRQ10 (Default), IRQ11.

Slot 1/2/3/4/5 Use IRQ No.

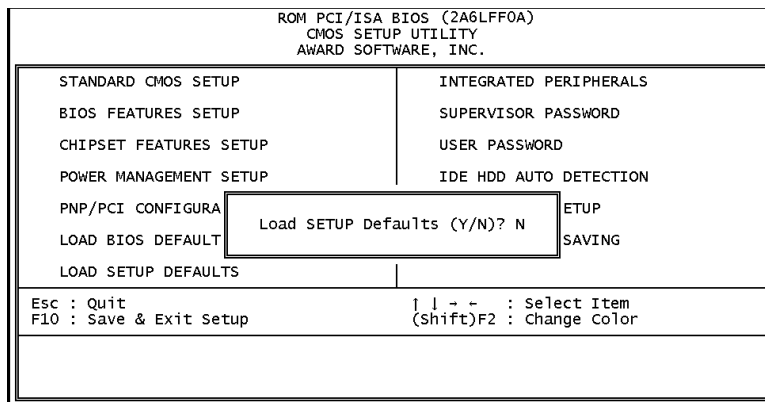
Some PCI devices would need to use an IRQ on the PCI bus. Selecting Auto allows the PCI controller to automatically allocate an IRQ.

The options are: Auto (Default); 3 to 5; 7; 9 to 12; 14; 15.

Load BIOS Defaults

ROM PCI/ISA BIOS (2A6LFF0A) 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 CONFIGURATION	LOAD BIOS DEFAULTS
LOAD BIOS DEFAULT	LOAD SETUP DEFAULTS
Load BIOS Defaults (Y/N)? N	
ETUP SAVING	
Esc : Quit F10 : Save & Exit Setup	
↑ ↓ → ← : Select Item (Shift)F2 : Change Color	

BIOS defaults contain the most appropriate values of the system parameters that allow minimum system performance. The OEM manufacturer may change the defaults through MODBIN before the binary image burns into the ROM.



Integrated Peripherals

ROM PCI/ISA BIOS (2A6LFF0A) INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.	
OnChip IDE Channel0 : Enabled	Onboard Serial Port 2 : UART Mode Select : RXD , TXD Active : Hi,Lo IR Transmittion delay: Enabled
OnChip IDE Channel1 : Enabled	Onboard Parallel Port : Parallel Port Mode : ECP Mode Use DMA : 3 EPP Mode Select : EPP1.9
IDE Prefetch Mode : Enabled	
IDE HDD Block Mode : Enabled	
Primary Master PIO: Auto	
Primary Slave PIO: Auto	
Secondary Master PIO: Auto	
Secondary Slave PIO: Auto	
Primary Master UDMA: Auto	
Primary Slave UDMA: Auto	
Secondary MasterUDMA: Auto	
Secondary Slave UDMA: Auto	
Init Display First : AGP	
POWER ON Function :	ESC : Quit l+- : Select Item
KB Power ON Password : Enter	F1 : Help PU/PD/+/- : Modify
Hot Key Power ON : Ctrl-F1	F5 : Old Values (Shift)F2 : Color
KBC input clock : 8 MHz	F6 : Load BIOS Defaults
Onboard FDC Controller: Enabled	F7 : Load Setup Defaults
Onboard Serial Port 1 : 3F8/IRQ4	

OnChip IDE Channel0

When enabled, allows you to use the onboard primary PCI IDE. If a hard disk controller card is used, set at Disabled.

The options are: Enabled (Default), Disabled.

OnChip IDE Channel1

When enabled, allows you to use the onboard secondary PCI IDE. If a hard disk controller card is used, set at Disabled.

The options are: Enabled (Default), Disabled.

IDE Prefetch Mode

When set at Enabled, it allows data to be posted to and prefetched from the primary IDE data ports. Data prefetching is initiated when a data port read occurs. The read prefetch eliminates latency to the IDE data ports and allows them to be performed back to back for the highest possible PIO data transfer rates. The first data port read of a sector is called the demand read. Subsequent data port reads from the sector are called prefetch reads. The demand read and all prefetch reads must be of the same size (16 or 32 bits).

The options are: Disabled, Enabled (Default).

IDE HDD Block Mode

When enabled, the system executes read/write requests to hard disk in block mode. The options are: Disabled, Enabled (Default).

Primary Master PIO

Allows an automatic or a manual configuration of the PCI primary IDE hard disk (master) mode.

The options are: Auto (Default), Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Primary Slave PIO

Allows an automatic or a manual configuration of the PCI primary IDE hard disk (slave) mode.

The options are: Auto (Default), Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Secondary Master PIO

Allows an automatic or a manual configuration of the PCI secondary IDE hard disk (master) mode.

The options are: Auto (Default), Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Secondary Slave PIO

Allows an automatic or a manual configuration of the PCI secondary IDE hard disk (slave) mode.

The options are: Auto (Default), Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Primary Master UDMA

Allows you to select the first PCI IDE channel of the first master hard disk mode or to detect it by the BIOS if the hard disk supports UDMA (Ultra DMA, faster than DMA).

The options are: Disable, Auto (Default).

Primary Slave UDMA

Allows you to select the first PCI IDE channel of the first slave hard disk mode or to detect it by the BIOS if the hard disk supports UDMA (Ultra DMA, faster than DMA).
The options are: Disable, Auto (Default).

Secondary Master UDMA

Allows you to select the second PCI IDE channel of the secondary master hard disk mode or to detect it by the BIOS if the hard disk supports UDMA (Ultra DMA, faster than DMA). The options are: Disable, Auto (Default).

Secondary Slave UDMA

Allows you to select the second PCI IDE channel of the secondary slave hard disk mode or to detect it by the BIOS if the hard disk supports UDMA (Ultra DMA, faster than DMA). The options are: Disable, Auto (Default),.

Init Display First

When you install an AGP VGA card and/or a PCI VGA card on the board, this feature allows you to select the first initiation of the monitor display from which card. The options are: PCI Slot, AGP (Default).

KB Power On Password

When set the POWER ON Function at Password, this feature will appear on the monitor. It allows you to set a password to power the system. Press the Enter key when you are prompted to set the power-on password. Type it up to five characters and press the Enter key; then confirm it by typing the password again and pressing the Enter key to complete the setting procedures. To disable the power-on password, press the Enter key when it is disabled. When the power-on password is set, the system can not be powered on by the power button, mouse, or hot key. Once the power-on password is set, you can power on the system simply by entering the password. This feature offers the security on your computer system.

Hot Key Power ON

When set POWER ON Function at Hot Key, this feature will appear on the monitor. It allows you to select a hot key to power on your computer.

The options are: Ctrl-F1 (Default), Ctrl-F2, Ctrl-F3, Ctrl-F4, Ctrl-F5, Ctrl-F6, Ctrl-F7, Ctrl-F8, Ctrl-F9, Ctrl-F10, Ctrl-F11, Ctrl-F12.

KBC input clock

This feature allows you to select different KBC input clocks which your keyboard actually supported. Please read your keyboard manual also for more information. The options are: 6, 8 (Default), 12, 16 MHz.

Onboard FDC Controller

When enabled, the floppy diskette drive (FDD) controller is activated. The options are: Enabled (Default), Disabled.

Onboard Serial Port 1

If the serial port 1 uses the onboard I/O controller, you can modify your serial port parameters. If an I/O card needs to be installed, COM3 and COM4 may be needed. The options are: 3F8/IRQ4 (Default), 3E8/IRQ4, 2F8/IRQ3, 2E8/IRQ3, Disabled.

Onboard Serial Port 2

If the serial port 2 uses the onboard I/O controller, you can modify your serial port parameters. If an I/O card needs to be installed, COM3 and COM4 may be needed. The options are: 2F8/IRQ3 (Default), 3E8/IRQ4, 2E8/IRQ3, 3F8/IRQ4, Disabled.

UART Mode Select

Allows you to select the IR modes if the serial port 2 is used as an IR port. Set at Normal, if you use COM2 as the serial port as the serial port, instead as an IR port. The options are: Normal (Default), IrDA, ASKIR.

RxD , TxD Active

This feature is available only if the item, UART 2 Mode, is set at ASKIR or HPSIR. The feature allows you to select the active signals of the reception end and the transmission end. This is for technician use only.

The options are: Hi, Lo (Default); Hi, Hi; Lo, Hi; Lo, Lo.

IR Transmission Delay

When Enabled, the transmission delays 4 characters-time (40 bit-time) if SIR is changed from RX mode to TX mode. When Disabled, no transmission delay if SIR is changed from RX mode to TX mode.

The options are: Enabled (Default), Disabled.

Onboard Parallel Port

Allows you to select from a given set of parameters if the parallel port uses the onboard I/O controller.

The options are: 378/IRQ7 (Default), 278/IRQ5, 3BC/IRQ7, Disabled.

Parallel Port Mode

Allows you to connect with an advanced printer.

The options are: Normal (Default), EPP, ECP, ECP/ ECP.

ECP Mode Use DMA

If you select ECP or ECP+EPP in Parallel Port Mode, this feature allows you to select Direct Memory Access (DMA) channel.

The options are: 3 (Default), 1.

EPP Mode Select

If you select EPP or ECP+EPP in Parallel Port Mode, this feature allows you to select the EPP type version.

The options are: EPP1.9 (Default), EPP1.7.

Supervisor/User Password

ROM PCI/ISA BIOS (2A6LFF0A) 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 CONFIGURATION	SAVE & EXIT SETUP
LOAD BIOS DEFAULTS	Enter Password: <input type="text"/> HOUT SAVING
LOAD SETUP DEFAULTS	
Esc : Quit F10 : Save & Exit Setup	
↑ ↓ ← → : Select Item (Shift)F2 : Change Color	

To enable the Supervisor/User passwords, select the item from the Standard CMOS Setup. You will be prompted to create your own password. Type your password up to eight characters and press Enter. You will be asked to confirm the password. Type the password again and press Enter. To disable password, press Enter twice when you are prompted to enter a password. A message appears, confirming the password is disabled.

Under the BIOS Feature Setup, if *Setup* is selected under the Security Option field and the Supervisor/User Password is enabled, you will be prompted password every time you try to enter the CMOS Setup Utility. If *System* is selected and the Supervisor/User Password is enabled, you will be requested to enter the Password every time when you reboot the system or enter the CMOS Setup utility.

IDE HDD Auto Detection

ROM PCI/ISA BIOS (2A6LFF0A)
BIOS FEATURES SETUP
AWARD SOFTWARE, INC.

HARD DISKS	TYPE	SIZE	CYCLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
------------	------	------	-------	------	---------	-------	--------	------

PRIMARY MASTER :

Select Primary Master Option (N=Skip) : N

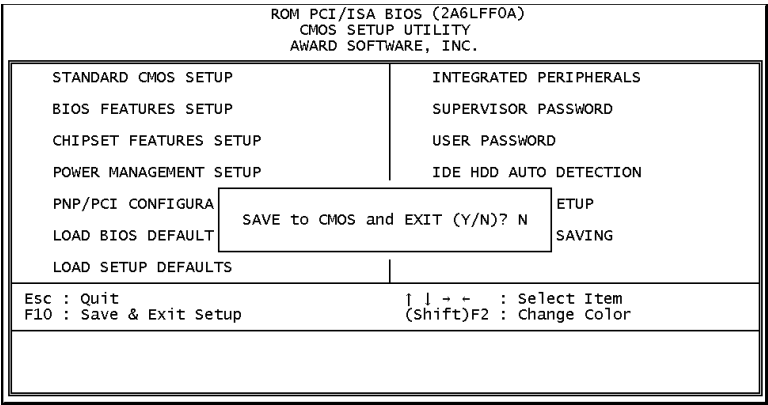
OPTIONS	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
2(Y)	851	825	32	0	1650	63	LBA
1	852	1651	16	65535	1650	63	NORMAL
3	851	825	32	65535	1650	63	LARGE

Note: Some OSes (Like SCO-UNIX) must use "Normal" for installation

ESC : Skip

The IDE Hard Disk Drive Auto Detection feature automatically configures your new hard disk. Use it for a quick configuration of new hard drives. This feature allows you to set the parameters of up to four IDE HDDs. The option with (Y) are recommended by the system BIOS. You may also keys in your own parameters instead of setting by the system BIOS. After all settings, press Esc key to return the main menu. For confirmation, enter the Standard CMOS Setup feature.

Save and Exit Setup



After you have made changes under Setup, press Esc to return to the main menu. Move cursor to Save and Exit Setup or press F10 and then press Y to change the CMOS Setup. If you did not change anything, press Esc again or move cursor to Exit Without Saving and press Y to retain the Setup settings. The following message will appear at the center of the screen to allow you to save data to CMOS and exit the setup utility:

SAVE to CMOS and EXIT (Y/N)?



Quit Without Saving (Y/N)?