

- Please read the users guide before proceeding with your installations. Serious damage may occur if the procedure is not followed properly.
- This motherboard does not support CPUs with a Vcore higher than 1.6 volts. Please make sure the CPU you are using 1.6 volts or below. Check the CPU specification before you insert it in the CPU socket.
- AGP cards running at 3.3v are not supported. Only AGP cards running at 1.5v (most 4x or 8x AGP cards) are supported on this motherboard.
- Please make sure that your memory modules are inserted correctly. They can go in only one way, and should fit completely in the socket without sticking out. Failure to do so will damage your motherboard and memory module.
- An ATX 12V power supply (Power supply for Pentium 4 system) is required for the system to operate normally. (Preferably 350 watts for minimal loading or 400 watts for fully loaded system).
- If you have any problem getting your system to work, please follow the troubleshooting tips in your user manual.
- On some motherboards, the actual chipset cooler may differ from the chipset cooler as shown on the picture or on the box. However, the chipset fan on the motherboard is of the same quality and will work just as well as the one shown in the picture. (The chipset cooler is as sufficient as the chipset fan based on a different design.)
- For answers to Technical questions, please visit SOYO tech support link at <u>http://www.soyousa.com/support</u> and <u>http://www.soyousa.com/kb</u>.



SY-P4I865PE Plus DRAGON 2 Motherboard

mPGA Socket 478 Processor supported

Intel 865PE AGP/PCI

400/533/800 MHz Front Side Bus supported

ATX 12V Form Factor

User's Manual

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About This Guide:

This Quick Start Guide can help system manufacturers and end users in setting up and installing the Motherboard. Information in this guide has been carefully checked for reliability; however, to the correctness of the contents there is no guarantee given. The information in this document is subject to amend without notice.

For further information, please visit our **Web Site** on the Internet. The address is "http://www.soyousa.com".

Edition: May 2003 Version 1.0 P4I865PE Plus DRAGON 2 SERIAL FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

100% POST CONSUMER RECYCLED PAPER

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Chapter 1

MOTHERBOARD DESCRIPTION

1-1 INTRODUCTION

The **SY-P4I865PE Plus DRAGON 2** AGP/PCI Motherboard is a high-performance Socket 478 processor supported ATX 12V form-factor system board. **SY-P4I865PE Plus DRAGON 2** uses the Intel 865PE Chipset technology. This Motherboard is fully compatible with industry standards and adds many technical enhancements.

1-2 UNPACKING THE MOTHERBOARD

When unpacking the Motherboard, check for the following items:



SY- P4I865PE Plus DRAGON 2

One Back panel





Warning: Do not unpack the Motherboard from its anti-static packaging until you are ready to install it.

Like most electronic equipment, your Motherboard may be damaged by electrostatic discharge. To avoid permanent damage to components ground yourself while working by using a grounding strap. Otherwise, ground yourself frequently by touching the unpainted portion of the computer chassis to drain the static charges.

Handle the Motherboard carefully, holding it by the edges. You are now ready to start the installation.

1-3 KEY FEATURES

CPU	 Supports Intel® mPGA Socket 478 processors : Pentium® 4 with and without Hyperthreading, Northwood, Prescott (400/533/800MHz FSB) Pentium® 4 Celeron SOYO COMBO Setup CMOS setup menu for complete and assy changing of your CPU
	settings in CMOS setup, making jumpers obsolete.
Chineot	Intol® 865DE / ICH5 Chipsot
	The SV-P41865PE Plus DR AGON 2
Momory	supports PC2100, PC2700 and PC3200 DDR (non-registered and non-ECC) memory
wiemoi y	 modules. SOYO COMBO Setup menu, to fully configure your memory settings.
AGP	1x AGP master 4x/8x slot (1.5v only)
PCI	5x 32-bit bus master PCI slots
	ITE IT8712F-A Super I/O controller supporting :
	 Floppy disk controller
	Parallel port (SPP, EPP and ECP compliant)
	\triangleright 2x 16550A compatible RS232 serial ports
	IrDA compatible infrared port
Super I/O	> PS/2 Keyboard and mouse
	Hardware monitor for monitoring temperatures, voltages and fan speeds in the system.
	 PC/SC (Personal Computer Smart Card
	Working Group) Standard compliant smart
	card controller

	 ICH5 integrated Serial ATA controller
	supporting up to 2x UDMA 150 hard disks
Storage	 ICH5 Integrated Parallel ATA controller
	supporting up to 4x UDMA 33/66/100
	Parallel ATA devices.
	8 x USB 2.0 compliant ports (4 on rear IO panel,
USB 2.0	4 x motherboard connectors.
Sound	Onboard AC97 6 channel Audio Codec
N. Assessed	Onboard 10/100 Mbps 100Base-T Ethernet
Network	controller, supporting Wake-On-Lan (WOL)
	Power Failure resume function to allow the
	system to turn on or off after a power failure,
	which is indispensable for server systems.
	Wake On Ring and Power On by Alarm to
BIOS	allow your system to wake up from suspend
	or power on through the modem or RTC
	alarm.
	Multiple boot, allowing your system to boot
	from for example CD-ROM
	This motherboard is compliant with the
	following industry standards :
Industry standards	Microsoft PC99
	➢ FCC
	> ACPI

1-4 HANDLING THE MOTHERBOARD

To avoid damage to your Motherboard, follow these simple rules while unpacking:

- Before handling the Motherboard, ground yourself by grasping an unpainted portion of the system's metal chassis.
- Remove the Motherboard from its anti-static packaging. Hold the Motherboard by the edges and avoid touching its components.
- Check the Motherboard for damage. If any chip appears loose, contact your dealer or our tech support immediately.



Warning: Do not apply power if the Motherboard appears damaged. If there is damage to the board, contact your dealer immediately.

1-5 ELECTROSTATIC DISCHARGE PRECAUTIONS

Make sure to ground yourself before handling the Motherboard or other system components. Electrostatic discharge can easily damage the components. Note that you must take special precautions when handling the Motherboard in dry or air-conditioned environment.

To protect your equipment from electrostatic discharge, take the following precautions:

- > Do not remove the anti-static packaging until you are ready to install.
- Ground yourself before removing any system component from its protective anti-static packaging. (To ground yourself, grasp the expansion slot covers or other unpainted portions of the computer chassis.)
- Frequently ground yourself while working or use a grounding strap.
- Handle the Motherboard by its edges and avoid touching its components.

1-6 SY-P4I865PE PLUS DRAGON 2 MOTHERBOARD LAYOUT





SY-P4I865PE Lite DRAGON 2 Platform

1-7 SY-P4I865PE PLUS DRAGON 2 MOTHERBOARD COMPONENTS



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	+12V Power Connector
А	This is where the Power Supply's +12V ATX connector goes. For a
	lay-out of this connector please check the F. ATX12V Power
	Supply paragraph on page 35.
	ATX Power Supply connector
	This connector is to connect the ATX connector of your ATX12V
В	compliant power supply to the motherboard. For more details on
	this connector, please check the F. ATX12V Power Supply
	paragraph on page 35.
С	Davicom Onboard Lan Chip
	AGP Slot
D	This is the AGP expansion slot for your video card. Note that it can
	only work with 1.5v AGP cards. For more information, check the
	Step 3 Installation of Expansion Cards paragraph on page 19.
	AGP DET LED
F	This LED lights up when an AGP 3.3v card is inserted in the
Ľ	system. If this LED lights up, your system will not work, since
	AGP 3.3v cards are not supported.
	Socket 478 Connector
F	This is the Zif (Zero Insertion Force) socket for your Pentium 4 or
1	Celeron CPU. For more information, check the Step 1 Install the
	CPU paragraph on page 14.
	Intel 865PE North Bridge Chip
	The Intel® 865PE chipset features support for an 800 MHz Front
G	Side Bus (FSB) and implements Intel® Performance Acceleration
	Technology (PAT) with dual-channel <u>DDR</u> 400 memory
	configurations to get incredible performance from the memory
	interface. Optimized to support the Intel® Pentium® 4 Processor
	with <u>Hyper-Threading Technology</u> ', the 865PE chipset adds
	intelligence to help manage and prioritize multiple threads received
	from the microprocessor.

	CPU Cooling Fan (CPUFAN1) connectors
Н	With these connectors you can attach the CPU fan or fans to your
	motherboard. They supply power and (in the case of CPUFAN1)
	allow you to monitor the speed of the FAN via the SOYO
	Hardware Monitor software or via CMOS setup. For more details
	on the lay-out of these connectors, check the (1) CPU Cooling Fan
	(CPUFAN1) paragraph on page 31
	DDR DIMM Banks
T	These 4, 184 pin memory slots are to install your system memory
1	in. They support up to 4 GB of memory. For more details check the
	Step 2 Install Memory Module paragraph on page 17.
	Bus Mastering EIDE/ATAPI Ports
	These connectors are to attach your IDE devices to. Each connector
J	can support up to 2 IDE devices, 1 master and 1 slave. Please
	check the A.IDE Device Installation (HDD, CD-ROM)
	paragraph on page 20 for more details.
	Floppy Disk Drive (FDD) connector
K	This 34 pins connector is to connect your floppy drive to. Check
IX.	for more details in the B. Floppy Drive Installation paragraph on
	page 23.
	Intel 82801EB South Bridge chip
	ICH5 platforms enable the next generation desktop storage
	interface with integration of Serial ATA (SATA). The ICH5 also
L	supports eight, high-speed USB 2.0 ports and integrates an Alert
	Standard Format (ASF) System Management controller for
	network manageability. The ICH5 includes enhancements for ACPI
	2.0 compliant power management logic.
	CMOS Clear Jumper (JP5)
М	This jumper allows you to clear your CMOS RAM contents in
171	order to reset your system configuration For more details on this
	check the G. CMOS Clear (JP5) paragraph on page 37.
N	3V Lithium Battery
	This battery supplies power to the CMOS RAM. As long as the
	battery supplies enough power, the contents of your CMOS RAM
	will be valid. CMOS RAM contents are configured by CMOS
	setup, and can be cleared by JP5. For more details on this check the
	G. CMOS Clear (JP5) paragraph on page 37.

	Chassis Cooling Fan (CHAFAN1) connector
0	This connector is to connect your chassis fan to your motherboard.
	This motherboard supports up to 2 chassis fans. It allows you to
	monitor the speed of CHAFAN1 in CMOS setup or by using the
	SOYO Hardware Monitor software. Please check the (2) Chassis
	Cooling Fan (CHAFAN1, CHAFAN2) paragraph on page 31 for
	more details.
	Flash BIOS
	This chip contains the system BIOS firmware, and is software
D	upgradable. It's size is 4Mbit. For updates of your Flash BIOS,
Р	please go to http://www.soyousa.com. For details on how to setup
	your BIOS, please go to the BIOS SETUP UTILITY chapter on
	page 41.
	Front Panel connectors (J25)
0	This header allows you to connect the switches and LEDs on your
Q	front panel. Please check the C. Front Panel Connections chapter
	on page 23 for more details and lay-outs.
	5V Stand-By Indicator LED
	The ATX 12V power supply will always supply a 5V standby
R	voltage to your motherboard so that it can power on via for
К	example Wake On Lan technology. This LED shows that your ATX
	12V power supply is supplying this standby voltage to your
	motherboard.
	SATA Connectors
	These connectors allow you to attach one UDMA 150 hard disk to
S	each connector. For more information on these connectors check
	the A.IDE Device Installation (HDD, CD-ROM) paragraph on
	page 20.
	USB 2.0 connectors
Ŧ	These connectors support 2 USB 2.0 ports per connector. For
Т	details on the lay-out, please check the 5. Universal Serial Bus
	(USB1/USB2, USB3/USB4, USB20_1/USB20_2) paragraph on
	page 29.
	Chassis Cooling Fan (CHAFAN2) connector
	This connector is to connect your chassis fan to your motherboard.
U	monitor the gread of CUAEANI in CMOS gatur or hyperica the
	SOVO Hardwara Manitar astrona Plasas sharle the (2) Chara's
	SUT U Hardware Monitor Soltware. Please check the (2) Chassis
	Cooling Fan (CHAFANI, CHAFAN2) paragraph on page 31 for $1 + 1$
	more details.

	GAMEPORT connector
V	This connector is to attach your gameport connector to. Gameports
	are used to connect for example joysticks to. For more details
	check the paragraph on page 30.
	Serial Infrared (IrDA) device header
W	This header allows you to connect an IrDA receiver to the
vv	motherboard. You can find the lay-out in the 1. Standard Infrared
	(SIRCON) paragraph on page 30.
	Smart Card Reader connector
	This connector allows you to connect a smart card reader to the
Х	PC/SC, ISO 7816 compliant onboard smart card reader. The
	paragraph 3. Smart Card Reader on page 33 contains more
	information on the lay-out of this header.
	32 bit PCI slots
Y	These are the motherboard's 3.3v busmastering PCI slots,
	compliant to PCI specification v2.2.
	ITE IT8712F-A Super I/O Chip
	The IT8712F-A is a Low Pin Count Interface-based highly
	integrated Super I/O. The IT8712F-A provides the most commonly
	used legacy Super I/O functionality plus the latest Environment
7	Control initiatives, such as H/W Monitor, Fan Speed Controller,
	ITE's 'SmartGuardian' function and Smart Card Reader Interface.
	The device's LPC interface complies with Intel 'LPC Interface
	Specification Rev. 1.0'. The IT8712F-A meets the 'Microsoft®
	PC98 & PC99 System Design Guide' requirements, and is ACPI &
	LANDesk compliant.
	CD-IN connector
ΔΔ	This connector is to attach your analog audio output channel from
ΠΠ	your CDROM or DVD drive to your motherboard. Please check
	the 4. CD Line-in (CDIN1) paragraph on page 33 for more details.
	AUX-IN connector
AB	This connector allows you to attach a second CDROM analog
	audio out output to your mainboard. Please check the 5. AUX-IN
	(AUXIN1) paragraph on page 34 for more details.

AC	AC97 Onboard Audio Chip
	Microphone and LAN Status LED Connector (J30)
	This connector allows you to extend your microphone connector
AD	and LAN Status LED to your front panel. Check the 6. MIC &
	LED Connector (J30) paragraph on page 34 for a lay-out of this
	header.
	Back panel connectors
AE	These connectors allow you to attach the external devices to the
	back of your PC. Please check the D. Back Panel Connections
	paragraph on page 26 for more details.

Chapter 2

HARDWARE INSTALLATION

Congratulations on your purchase of **SY-P4I865PE Plus DRAGON 2** Motherboard. You are about to install and connect your new Motherboard.



Note: Do not unpack the Motherboard from its protective anti-static packaging until you have made the following preparations.

2-1 PREPARATIONS

Gather and prepare all the following hardware equipment to complete the installation successfully:

- 1. Socket mPGA478 processor with built-in CPU cooling fan. (CPUs with Vcore higher than 1.6 volts are not supported)
- 2. DDR RAM memory module(s)
- 3. Computer case and chassis with adequate power supply unit (350W for a minimally loaded system or 400W for a fully loaded system).
- 4. Monitor
- 5. Keyboard
- 6. Pointing Device (mouse)
- 7. Disk Drives: HDD, CD-ROM, Floppy drive...
- 8. External Peripherals: Printer, and Modem- (optional)
- 9. VGA Card (AGP or PCI)

Note: This M/B only supports 1.5V AGP VGA cards! 3.3V AGP cards are not supported.

2-2 INSTALLATION GUIDE

We will now begin the installation of the Motherboard. Please follow the step-by-step procedure designed to lead you to a complete and correct installation.

- Step1- Install the Central Processing Unit (CPU).
- Step2- Install memory modules.
- Step3- Install expansion cards.
- Step4- Connect cables, case wires, and power supply.
- **Step5-** Power on and enter BIOS setup .
- **Step6-** Install supporting software tools. See Chapter 4 for more info.



Warning: Turn off the power to the Motherboard, system chassis, and peripheral devices before performing any work on the Motherboard or system.

BEGIN THE INSTALLATION

Step 1 Install the CPU

CPU Mount Procedure: To mount the Pentium® 4 Socket mPGA478 processor that you have purchased separately, follow these instructions.

1. Lift the socket handle up to a vertical position.



Hardware Installation

2. Align the blunt edge of the CPU with the matching pinhole distinctive edge on the socket.



3. Seat the processor in the socket completely and without forcing.



4. Then close the socket handle to secure the CPU in place.





Remember to connect the CPU Cooling Fan to the appropriate power connector on the Motherboard. *The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.*

CPU Fan Installation

Your Socket 478 processor kit comes with a cooling fan. Mount the fan on the processor according to the instructions provided by the manufacturer. The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.



Note: Remember to connect the fan to the appropriate power source.



Step 2 Install Memory Module

This motherboard supports one Dual Channel to your memory, Note that you can use normal DDR memory for Dual Channel to work. Also note that for Dual Channel to work 2 modules of equal size and specifications have to be installed.

The largest memory capacity possible is 3 GB. On this motherboard, DRAM speed can be set independent form the CPU front side bus speed. Note that when installing 3GB of memory, your total memory will be less than 3GB. The reason for this is that the BIOS, PCI and AGP cards claim part of your CPUs address space.

Memory Configuration Table

If you want to use the Dual Channel feature, please follow the memory configuration table below:



Installing your memory in a combination different from the table above will still allow your system to work. The Dual Channel feature will not work then however.

Memory frequency Table

Depending on the front side bus (FSB) frequency of the CPU, you can run memory of different speeds. Please look at the table below for details:

CPU FSB (MHz)	Memory Frequency (MHz)	DDR DIMM Type
400	266	PC2100
533	266 or 333	PC2100 or PC2700
800	400 or 320*	PC3200 or PC2700

* When using a 800 MHz FSB CPU and PC2700 DDR DIMMs, the memory frequency runs at 320 MHz (instead of 333 MHz) due to chipset limitations.

Step 3 Installation of Expansion Cards

The motherboard has 1 AGP slot and 5 PCI slots.

- 1. Read the related expansion card's instruction document before inserting the expansion card into the computer.
- 2. Press the expansion card firmly into the expansion slot in the motherboard.
- 3. Make sure the metal contacts on the card are seated in the slot.
- 4. Replace the screw to secure the slot bracket of the expansion card.
- 5. Install required driver for the operating system you use.



This motherboard only support 1.5V AGP card (4X/8X card). If 3.3V AGP card is used, the system will not boot-up and the AGPDET LED will lit.



Step 4 Connect cables, case wire, and power supply A.IDE Device Installation (HDD, CD-ROM)



This Motherboard offers 1 primary (IDE1) IDE device connectors, 1 secondary IDE device connectors (IDE2) and 2 tertiary serial ATA ports. IDE1 and IDE2 can support up to four high-speed Ultra DMA 33/66/100 HDD or CD-ROM. SATA1~2 can support up to 2 ATA 150 SATA hard disks.

IDE1, 2 are controlled by the 82801EB (ICH5), SATA1, 2 are controlled by the 82801EB (ICH5).

There are 4 parallel ATA HDD connectors (IDE1, IDE2) and 2 serial ATA connectors on the motherboard. SATA1 and SATA2 are provided for standard SATA function. This Motherboard can support up to 6 HDDs.

The other end of the SATA cable goes into your SATA device.

Note: IDE2 and SATA2 are not bootable, SATA1 and IDE1 are bootable.

Note: Only Windows XP can use SATA1, SATA2, IDE1 and IDE2 at the same time. All other operating systems can use any combination from the following table:

Parallel ATA connectors

Connect the black end of the ATA66/100 flat cable to the IDE device (HDD or CD-ROM) and plug the blue end to the primary (IDE1) or secondary (IDE2) directionally keyed IDE connector on the Motherboard. The ATA66/100 cable is backward compatible with ATA33 HDDs.

	Enabled devices		
1	SATA1	SATA2	IDE1
2	SATA1	SATA2	IDE2
3	IDE1	IDE2	
4	SATA1	SATA2	

These devices can be enabled in your CMOS setup menu. Please check the **OnChip IDE** Device paragraph on page 50 for more details.



Serial ATA connectors

You can also plug the serial ATA cable into the serial ATA connector of the motherboard. The other end of the SATA cable goes into your SATA device.





The system supports 5 possible floppy drive types: 720 KB, 1.2 MB, 1.44 MB, 2.88 MB. In addition, this Motherboard supports a 3-mode (720KB/1.2MB/1.44MB) floppy commonly used in Japan.

Connect one side of the 34-pin flat cable to the floppy drive and plug the other end in the floppy drive connector on the Motherboard.

This Motherboard can supports only 1 floppy drive.



SY- P4I865PE Plus DRAGON 2

C. Front Panel Connections



Plug the computer case's front panel devices to the corresponding headers on the Motherboard.

1. Power LED

Please install according to the following pin assignment: pin 1, 3 are for Power LED.



2. Reset

Plug the Reset push-button cable into the 2-pin Reset header on the Motherboard. Pushing the Reset button on the front panel will cause the system to restart the boot-up sequence.



3. Speaker

Attach the 4-pin PC speaker cable from the case to the Speaker header on the Motherboard.



4. ACPI LED

Connecting the 2-pin ACPI LED cable to the corresponding ACPI LED header will cause the LED to light whenever the system is in ACPI mode. The manufacturer has permanently set this Motherboard in ACPI mode for PC99 requirements.



5. IDE LED

Attach the 2-pin IDE device LED cable to the corresponding IDE LED header on the Motherboard. This will cause the LED to lighten when an IDE1 or IDE2 (HDD, CD-ROM) device is active.



6. ATX Power On/Off Switch

Attach the 2-pin momentary type switch to the PWRBT header for turning On or Off your ATX power supply. Note that 5VSB will always have power, so the 5V standby LED will always be lit.



D. Back Panel Connections

All external devices such as the PS/2 keyboard, PS/2 mouse, printer, modem, USB can be plugged directly into the Motherboard back panel.

Only after you have fixed and locked the Motherboard to the computer case can you start connecting the external peripheral devices.

When connecting an external device, use the following figure to locate and identify which back panel connector to plug the device to.



1. Onboard Serial Ports COMA/COMB

External peripherals that use serial transmission scheme include:

- serial (RS232) mice
- modem.

Plug the serial device cables directly into the COMA/COMB 9-pin male connectors located at the rear panel of the Motherboard.

2. Parallel Port PRT

This parallel port is used to connect the printer or other parallel devices. Plug the parallel device cable into the 25-pin female connector located at the rear panel of the Motherboard.

3. PS/2 Keyboard

Plug the keyboard jack directly into the 6-pin female PS/2 keyboard connector located at the rear panel of the Motherboard.



4. PS/2 Mouse

Similarly, plug the mouse jack directly into the 6-pin female PS/2 mouse connector.



5. Universal Serial Bus (USB1/USB2, USB3/USB4, USB20_1/USB20_2) This Motherboard provides 8 USB 2.0 ports for your additional devices. Plug the USB device jack into the available USB connector USB1, USB2, USB3 and USB4.

USB20_1 and USB20_2 are available. To make use of these USB ports, purchase a USB cable from your dealer. The lay-out of USB20_1/USB20_2 connector is as follows:



6. Onboard Audio Speakers connections

When using 2-channel speaker, connect the speaker cable to line-out.

If you're using 4 channel speaker, connect **the front L/R speakers to line-out and rear L/R speakers to Line-in**. make sure to set the Audio Rack software for 4 channel speaker system. Do not forget to set the Audio Rack software to 4-channel system.

If you are using 6 channel speaker, connect the front L/R speaker to line out, rear L/R speaker to line-in and center/Bass speaker to Mic-in, make sure to set the Audio Rack software to 6 channel speaker system.



The Gameport has the following lay-out :



E. Other Connections

1. Standard Infrared (SIRCON)

Plug the 5-pin infrared device cable to the SIRCON header.



This will enable the infrared transfer function. This Motherboard meets both the ASKIR and HPSIR specifications.

Please install according to the following pin assignment:



2. Cooling Fan Installation



(1) CPU Cooling Fan (CPUFAN1)

After you have seated the CPU properly on the processor, attach the 3-pin fan cable to the CPUFAN connector on the Motherboard.

To avoid damage to the system, install according to the following pin assignment:


(2) Chassis Cooling Fan (CHAFAN1, CHAFAN2)

Some chassis also feature a cooling fan. This Motherboard features a CHAFAN connector to provide 12V power to the chassis fan. Connect the cable from the chassis fan to the CHAFAN 3-pin connector. Install according to the following pin assignment:





Note: CPU cooling fan must be installed to prevent *CPU* from overheating and ensure system stability. Chassis cooling fan is optional, depending on whether there is cooling fan in your chassis.

3. Smart Card Reader

The smart card reader conforms to the PC/SC Working group standard, and has the following lay-out:



4. CD Line-in (CDIN1)

This Motherboard provides one CD-Line-in connectors. Please connect the 4-pin audio cable from your CD-ROM or DVD ROM drive to CDIN1.

Please install according to the following pin assignment:



5. AUX-IN (AUXIN1)

This Motherboard provides one AUX-IN connectors. Please connect the 4-pin audio cable from your second CD-ROM or DVD ROM drive to either AUX-IN.

Please install according to the following pin assignment:



6. MIC & LED Connector (J30)

You can connect the Line-out /MIC in /LAN LED to the front panel of your PC case (If this option is available in your PC case). This connector has the following pin assignment:



F. ATX12V Power Supply

The power supply connector is the last connection to be made while installing a motherboard. This motherboard requires an ATX 12V power supply (For P4 system), and AT or ATX power supply cannot be used.



Note 1: The presence of the +12V power connector indicates that a power supply is ATX12V; the absence of the +12Vpower connector indicates that a supply is ATX.

Note 2: When using the Power-On by Keyboard function, please make sure the ATX 12V power supply is able to provide at least 1220mA on the 5V Standby lead (5VSB).

Note 3: The minimum recommended wattage is 400W for a fully loaded system or 350W for a minimally loaded system, the system might become unstable if power supply is not enough



Note 4: The 4 pin ATX 12V must be connected to the motherboard. Without this connector, the system cannot boot.

Please install the ATX power according to the following pin assignment:



FIG. 1



G. CMOS Clear (JP5)



In some cases the CMOS memory may contain wrong data, follow the steps below to clear the CMOS memory.

- 1. Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5. This jumper can be easily identified by its white colored cap.
- 2. Then put the jumper back to 1-2 to allow writing of new data into the CMOS memory.

CMOS Clearing	Clear CMOS Data	Retain CMOS Data				
JP5 Setting	Short pin 2-3 for at least 5 seconds to clear the CMOS	Short pin 1-2 to retain new settings				
Note: You must unplug the power cable from the ATX power supply when performing the CMOS Clear operation.						

Onboard LAN LED Definition

When this LED is lit, this means the LAN is running at 100 mbps, if it is not lit, the Onboard LAN is working at 10 mbps.



This is the LAN activity LED. It will blink when it is active.

Step 5 Power On

You have now completed the hardware installation of your Motherboard successfully.

- 1. Turn the power on
- 2. To enter the BIOS Setup Utility, press the key while the system is performing the diagnostic checks,



Note: If you have failed to enter the BIOS, wait until the boot up sequence is completed. Then push the RESET button and press key again at the beginning of boot-up, during diagnostic checks.

Repeat this operation until you get the following screen.

3. The BIOS Setup screen appears:

Phoenix – Award BIOS CMOS Setup Utility					
► SOYO COMBO Feature	► PC Health Status				
Standard CMOS Features	Load Fail - Safe Defaults				
Advanced BIOS Features	Load Optimized Defaults				
 Advanced Chipset Features 	Set Supervisor Password				
 Integrated Peripherals 	Set User Password				
Power Management Setup	Save & Exit Setup				
PnP/PCI Configurations	Exit Without Saving				
Esc : Quit	$\wedge \psi \rightarrow$: Select Item				
F10 : Save & Exit Setup					
Change CPU's Clock & Voltage					

2-3 QUICK BIOS SETUP

This Motherboard does not use any hardware jumpers to set the CPU frequency. Instead, CPU settings are software configurable with the BIOS **[SOYO COMBO FEATURE]**. The [SOYO COMBO FEATURE] combines the main parameters that you need to configure, all in one menu, for a quick setup in BIOS.

After the hardware installation is complete, turn the power switch on, then press the *<***DEL***>* key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will be shown on the screen. Then, follow these steps to configure the CPU settings.

Step1. Select [STANDARD CMOS SETUP]

Set [Date/Time] and [Floppy drive type], then set [Hard Disk Type] to "Auto".

Step2. Select [LOAD OPTIMIZED DEFAULTS]

Select the "LOAD OPTIMIZED DEFAULTS" menu and type "Y" at the prompt to load the BIOS optimal setup.

Step3. Select [SOYO COMBO FEATURE]

Set the **[CPU Frequency Select]** field to "Manual", to be able to change the CPU frequency 1 MHz stepping.

Step4. Select [SAVE & EXIT SETUP]

Press **<Enter>** to save the new configuration to the CMOS memory, and continue the boot sequence.

Chapter 3

BIOS SETUP UTILITY

This Motherboard's BIOS setup program uses the ROM PCI BIOS program from Award Software Inc.

To enter the Award BIOS program's Main Menu:

- 1. Turn on or reboot the system.
- 2. After the diagnostic checks, press the [Del] key to enter the Award BIOS Setup Utility.

Phoenix – Award BIOS CMOS Setup Utility					
▹ SOYO COMBO Feature	▶ PC Health Status				
Standard CMOS Features	Load Fail - Safe Defaults				
Advanced BIOS Features	Load Optimized Defaults				
Advanced Chipset Features	Set Supervisor Password				
 Integrated Peripherals 	Set User Password				
Power Management Setup	Save & Exit Setup				
► PnP/PCI Configurations Exit Without Saving					
Esc : Quit $\wedge \psi \rightarrow$: Select Item					
F10 : Save & Exit Setup					
Change CPU's Clock & Voltage					

Selecting items

• Use the arrow keys to move between items and select fields.

• From the Main Menu press arrow keys to enter the selected submenu. Modifying selected items

• Use the [Up]/[Down] keys to modify values within the selected fields. Some fields let you enter values directly or press Enter, then select the value. **Hot Keys:** Function keys give you access to a group of commands throughout the BIOS utility.

Function	Command	Description
F1	General Help	Gives the list of options available for each item.
F5	Previous Values	Restore the old values. These are the values that the user started the current session with.
F6	Load Fail-Safe Defaults	Loads all items with the most conservative values.
F7	Load Optimized Defaults	Loads all options with the optimize values.
F10	Save	Saves your changes and reboots the system.
[Esc]	Exit	Returns at anytime and from any location to the Main Menu.
[Enter]	Select	Will display a overlapping window with all options for the current item.
[+/_/PU/PD]	Value	Using the +, –, Page Up and Page Down keys the user can toggle the value of the current item.

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SAVE AND EXIT SETUP

Select the [SAVE & EXIT SETUP] option from the Main Menu to save data to CMOS and exit the setup utility. This option saves all your changes and causes the system to reboot.

ROM PCI/ CMOSSET AWARDSOF	/ISABIOS UPUTILITY TWARE, INC.
STAND BIOS FI CHIPSE POWER PNP/PC LOADS	S and EXIT
LOAD BIOS DEFAULTS	
Esc: Quit F10: Save & Exit Setup	↑↓→← :SelectItem (Shift)F2 :ChangeColor
Time, Date, Ha	rd Disk Type

Type [Y] to save the changes and exit or [N] to return to the Main Menu and keep current values.

EXIT WITHOUT SAVING

Selecting the [EXIT WITHOUT SAVING] option allows you to abandon all changes and exit setup.

ROM PCI/ISA BIOS CMOSSETUPUTILITY AWARDSOFTWARE, INC. STANDARDCMOSSETUP INTEGRATED PERIPHERALS				
Quit Without Saving (Y/N)? _				
Esc : Quit $\uparrow \downarrow \rightarrow \leftarrow$: Select Item				
F10 : Save & Exit Setup (Shift) F2 : Change Color				
Time, Date, Hard Disk Type				

Type [Y] to abandon changes and exit or [N] to return to the Main Menu and keep current values.

3-1 SOYO COMBO FEATURE

This motherboard does not use any hardware jumpers to set the CPU frequency. Instead, CPU settings are software configurable with the BIOS **[SOYO COMBO Feature].**

After the hardware installation is complete, turn the power switch on, then press the key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will display on screen. Then, select the [SOYO COMBO Feature] option from the main menu and press the <Enter> key.

Phoenix – Award BIOS CMOS Setup Utility SOYO COMBO Feature						
System Perf	ormance	Normal			Item	Help
CPU Clock	Ratio	13 x	Ĩ	N	/Ienu Level	•
CPU Freque	ency Select	Auto				
x Frequency 1	MHz Stepping	100 MHz	-			
Async AGP	PCI CLK	Disabled	-			
DRAM:CPU	J Ratio Select	Auto	-			
DRAM Free	quency	333 MHz	-			
Quick Powe	r On Self Test	Enabled	-			
C.I.H. 4-WA	AY Protection	Disabled	-			
CPU Voltage	e Select	Default				
DDR Voltag	ge Select	Default	-			
AGP Voltage	e Select	Default				
			-			
 Advanced D 	RAM Control	Press Enter				
 Onboard Det 	vice	Press Enter				
► OnChip IDE	Device	Press Enter				
Boot Device	order	Press Enter				
			_			
$\wedge \psi \rightarrow$ Move	Enter : Select	+ / - / PU / PD : Value	F10 : Sa	ive	ESC : Exit	F1: General Help
F5 : Previous Values		F6 : Fail – Safe Defaults			F7 : Optimized Defaults	

The [SOYO COMBO Feature] menu combines the main parameters that you need to configure, all in one menu, for a quick setup in BIOS.

System Performance

	Setting	Description	Note
			_
System	Normal	Adjust your computer's	Default
Performance	Fast	performance.	
	Turbo		

SOYO COMBO Feature

	Setting	Description	Note		
CPU Clock Ratio	8X~ 50X	The available CPU ratio you can select will depends on your CPU ID.			
CPU Frequency Select	Manual Auto	Choose the pre-defined CPU frequency setting or auto for auto detecting your CPU frequency. For experienced overclocker, set the field to "Manual" and use the CPU Freq. by 1 MHz stepping manual to overclock the CPU. Don't forget to set the correct CPU to PCI divider.	Default		
Frequency 1MHz Stepping	100~255	Press "Page Up" / "Page Down" key to overclock the CPU Front Side Bus in increment or Press "Enter" key, then ty desired CPU Front Side Bus.	o l MHz ype the		
Async AGP/PCI CLK	Disabled 66/33 MHz 73/36 MHz 80/40 MHz	Allows you to set your AGP/PCI clock regardless of what your FSB and memory are.	Default		
DRAM:CPU Ratio	Auto x1.33 x1.25	Choose the pre-defined DRAM frequency setting or auto for experienced overclocker, set the field to "x1.33" or "x1.25" DRAM frequency.	Default		
DRAM Frequency		This item shows you the DRAM frequ	ency.		

SOYO COMBO Feature (Continue)

	Setting	Description	Note
Quick Power	Disabled		
On Self Test	Enabled	Provides a fast POST at boot-up.	Default
C.I.H. 4-WAY	Enabled	This item allows you write-protect	
Protection	Disabled	your BIOS chip. If you want to flash your BIOS, set this option to disabled. Write protecting your BIOS protects you against some	Default
		viruses.	

Voltage Select

	Setting	Description	Note
CPU Vcore Select	Default 1.600 1.550 1.500	This function allows you to adjust the CPU voltage.	Default
	1.450 1.400 1.350 1.300		
DDR Voltage Select	Default 2.9V 2.8V 2.7V	This function allows you to adjust the DDR voltage.	Default
AGP Voltage Select	Default 1.8V 1.7V 1.6V	This function allows you to adjust the AGP voltage.	Default

3-1.1 Advanced DRAM Control



Caution: Change these settings only if you are already familiar with DRAM timing parameters.

The [Advanced DRAM Control] option changes the values of the chipset registers. These registers control the timings of your memory.

Phoenix – Award BIOS CMOS Setup Utility Advanced DRAM Control						
DRAM Ti	DRAM Timing Selectable By SPD					
x CAS Latency Time			2.5			
x Active to Precharge Delay 7				Menu Level		
x DRAM RAS# to CAS# Delay 4			4			
x DRAM RA	S# Precharge		4			
Refresh M	ode Select		Auto			
					-	
$\uparrow \downarrow \rightarrow$:Move	Enter:Select	+/-/PU/F	PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previo	F6:Fail-Safe Defaults		F7: Optimized Defaults			

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

CHIPSET FEATURES SETUP

	Setting	Description	Note
DRAM Timing Selectable	By SPD Manual	If enable the DRAM will auto detect the DRAM timing.	Default
CAS Latency Time	1.5 2 2.5 3	This item allows you to control the DRAM CAS Latency time.	Default
Active to Precharge Delay	5 6 7 8	This item allows you to control the DRAM Percharge Delay time.	Default

CHIPSET FEATURES SETUP (Continue)

	Setting	Description	Note
		-	
DRAM RAS# to	2	This item allows you to control	
CAS# Delay	3	DRAM RAS to CAS delay time.	
	4		Default
DRAM RAS#	2	This item allow you to control	
Precharge	3	DRAM RAS percharge time.	
	4		Default
Refresh Mode	7.8 us	This item allows you to set the	
Select	15.6 us	interval between consecutive refresh	
	64 us	cycles.	
	Auto		Default

3-1.2 Onboard Device

The [Onboard Device] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility						
		Or	nboard De	evice		
AC97 Aud LAN Chip	io	2	Auto Enabled		Ite	em Help
					Menu Lev	rel 🕨
$\uparrow \downarrow \rightarrow$:Move	Enter:Select	+/-/PU/PI	D:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previo	us Values	F6	:Fail-Safe De	faults	F7: Optir	nized Defaults

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

Onboard Settings

	Setting	Description	Note
AC97 Audio	Enabled	This setting allows you to	Default
	Disabled	enabled or disabled onboard Audio.	
-			
LAN Chip	Enabled	This setting allows you to	Default
	Disabled	enabled or disabled onboard LAN.	

3-1.3 OnChip IDE Device



Caution: Change these settings only if you are already familiar with the IDE settings.

The [OnChip IDE Device] option changes the settings of the 82801EB (ICH5) IDE controller. These settings do not influence the HighPoint 372N or Silicon Image Sil3112 controllers.

The following screen shows setup default settings.

Phoenix – Award BIOS CMOS Setup Utility						
OnChip IDE Device						
IDE 1,2 /SATA 1,2 IDE only					l I	tem Heln
IDE HDD Block M	ode		Enabled			
IDE DMA transfer	access		Enabled			
On-Chip Primary	PCI	IDE	Enabled			
IDE Primary Maste	r PIO		Auto		Controlle	r
IDE Primary Slave	PIO		Auto			uto arrange by
IDE Primary Maste	r UDM	A	Auto		BIOS.	
IDE Primary Slave	UDMA	<u> </u>	Auto		[Combine	ed Mode]: PATA
On-Chip Secondary PCI IDE		DE	Enabled		and SATA	A are combined.
IDE Secondary Mas	ster PIC)	Auto Auto Auto		Max. of 2 IDE drives in each channel. [Enhanced Mode]: Enable both SATA and PATA. Max. of 6 IDE drives are	
IDE Secondary Slav	ve PIO					
IDE Secondary Mas	ster UD	MA				
IDE Secondary Slav	ve UDN	ΛA	Auto			
					supported	l.
*** On-Chip Seria	1 ATA S	Setting	***		[SATA O	nly]: SATA is
x On-Chip Serial ATA	1		Disabled operating in legacy		in legacy mode.	
x Serial ATA Port0 M	ode		Primary Master			
x Serial ATA Port1 Mode		Primary Sla	ive			
$\land \lor \rightarrow$:Move Enter:Se	ect	+/-/PU/f	PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values			6:Fail-Safe D	efaults	F7: Opt	imized Defaults

After you have complete the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

CHIPSET FEATURES SETUP

	Setting	Description	Note
IDE 1,2 /SATA 1,2	IDE only	Only enabled IDE1,2. SATA1,2 are disabled	Default
	SATA only	Only enable SATA1,2. IDE1,2 are disabled.	
	Pri IDE+SATA	IDE1 and SATA1,2 are enabled. IDE2 is disabled.	
	SATA+Sec IDE	IDE2 and SATA 1,2 are enable. IDE1 is disabled.	
	IDE + SATA	IDE1,2 AND sata1,2 are all enabled.	
IDE HDD Block	Disabled		
Mode	Enabled	Invokes multi-sector transfer instead of one sector per transfer. Not all HDDs support this function.	Default
IDE DMA transfer	Enabled	This option allows the	Default
access	Disabled	82801EB (ICH5)'s IDE controller to directly transfer data to memory without intervention or the CPU if enabled.	

IDE Device Controls

	Setting	Description	Note
On-Chip PCI IDE ≻ Primary	Disabled	Turn off the on-board IDE	
Secondary	Enabled	Use the on-board IDE	Default
IDE > Primary Master PIO	mode 0-4	0 is the slowest speed 4 is the fastest speed	
 Primary Slave PIO Secondary Master PIO Secondary Slave PIO 	Auto	For better performance and stability, we suggest you use the Auto setting to set the HDD control timing.	Default
IDE	Disabled		
≻Primary Master UDMA ≻Primary Slave UDMA ≻Secondary Master UDMA ≻Secondary Slave UDMA	Auto	Select auto to auto detect UDMA support, or disabled to use DMA/PIO.	Default

3-1.4 Boot Device Order

The [Boot Device Order] option allows you to change the order in which your system scans for devices to boot from.

Note: That SATA 1 and SATA 2 are not bootable.

Phoenix – Award BIOS CMOS Setup Utility Boot Device Order						
First Boot Second Bo	Device oot Device	-	Floppy IDE1/SATA	.1	Ite	em Help
Third Boo Boot Othe	t Device r Device		LS120 Enabled		Menu Lev	el 🕨
Boot Other Device				Allows th certain tes This will needed to	e system to skip sts while booting. decrease the time boot the system.	
↑↓→:Move	Enter:Select	+/-/PU/F	PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previc	ous Values	F	6:Fail-Safe De	efaults	F7: Opti	mized Defaults

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

System Boot Control Settings

	Setting	Description	Note
First /Second/Third Boot Device	Floppy LS120 IDE1/SATA1 CDROM ZIP100 Other Device Disabled	Selects the order in which your system scans for devices to boot from (First the first boot device, then the second, etc). For booting from the HighPoint 372N or Silicon Image Sil3112 controller, set this option to SCSI).	
Boot Other Device	Disabled Enabled	Selects if the system should try to find any other bootable devices if the first, second and third boot device cannot be booted from.	Default

3-2 STANDARD CMOS SETUP

Select the [STANDARD CMOS SETUP] option from the Main Menu and press [Enter] key.

Phoenix – Award BIOS CMOS Setup Utility Standard CMOS Features					
Date (mm:dd:yy) Time (hh:mm:ss)	Mon, May 7 2003 2 : 30 : 20	Item Help			
 IDE Primary Master IDE Primary Slave 	None None	Menu Level Change the day, month, year			
 IDE Secondary Master IDE Secondary Slave 	None None				
Floppy 3 Mode Support	Disabled				
Video Halt On	EGA/VGA All Errors				
Base Memory Extended Memory Total Memory	640K 326656K 327680K				
	+ / - / PU / PD : Value F10 :	Save ESC : Exit F1: General Help			

This screen allows you to modify the basic CMOS settings.

After you have completed the changes, press [Esc] key to return to the Main Menu.

Date & Time

	Display	Setting	Please Note
Date	mm/dd/yyyy	Type the current date	You can also the
			PUp/PDn keys to toggle
Time	hh:mm:ss	Type the current time	24-hour clock format
			3:15 PM is displayed as
			15:15:00

Hard Disks Type & Mode

Choose the type and mode for the hard disks that you have already installed.

Primary (Secondary) Master & Slave	Setting	Description	Note
IDE HDD Auto-Detection	Press Enter	To auto-detect the HDD's size, head on this channel	
IDE Primary Slave	Auto	BIOS detects hard disk type automatically.	Default
(User Type)	User None	User defines the type of hard disk.	
Access Mode	Auto	BIOS detects hard disk mode automatically.	Default
	CHS	Normal IDE hard disk	<528MB
	LBA	Enhanced IDE hard disk	>528MB
	Large	Large IDE hard disk (for certain hard disk)	

Note: If you have any questions on your hard disk type or mode, ask your hard disk provider or previous user for details.

Floppy Drives

Floppy Drives	Setting	Description	Note
	2(0KD 5 25 ·		
Drives A	360KB, 5.25 In.		
	1.2MB, 5.25 in.		
	720KB, 3.5 in.		
	1.44MB, 3.5 in.		Default
	2.88MB, 3.5 in.		
	None	Not installed	
Floppy 3-Mode	Disabled		Default
Support	Drive A	Supports 3-mode	Special disk
		floppy diskette:	drive
		740KB/1.2MB/	commonly
		1.44MB on selected	used in Japan
		disk drive.	

Others Optional

	Setting	Description	Note
Video	EGA/VGA	Select the video mode.	Default
	CGA 40		
	CGA 80		
	MONO		
	(Monochrome)		
-			
Halt On	ALL Errors	When the BIOS detects system	Default
	No Errors	errors, this function will stop the	
	All, But Keyboard	system. Select which type of	
	All, But Diskette	error will cause the system halt.	
	All, But Disk/Key		

3-3 ADVANCED BIOS FEATURES

Select the [Advanced BIOS Features] option from the Main Menu and press [Enter] key.

Phoenix – Award BIOS CMOS Setup Utility Advanced BIOS Features				
Virus Warning CPU L1 & L2 Cache	Disabled Enabled	Item Help		
CPU L2 Cache ECC Checkin Boot Up Floppy Seek Boot Up NumLock Status	ng Enabled Enabled On	Menu Level ► Allows you to choose the VIRUS warning feature for		
Gate A20 Option Typematic Rate Setting x Typematic Rate (Chars/Sec)	Fast Disabled 6	IDE Hard Disk boot sector protection. If this function is enabled and someone attempt		
x Typematic Delay (Msec) Security Option APIC Mode	250 Setup Enabled	to write data into this are BIOS will show a warnin message on screen and alar		
MPS Version Control For OS OS Select For DRAM > 64M HDD S.M.A.R.T. Capability	S 1.1 IB Non-OS2 Disabled	beep.		
Report No FDD For WIN 95 Full Screen LOGO Show	No Enabled			
Small Logo (EPA) Show	Enabled			
↑↓→ Move Enter : Select F5 : Previous Values	+ / - / PU / PD : Value F10 : Save F6 : Fail - Safe Defaults	ESC : Exit F1: General Help F7 : Optimized Defaults		

After you have completed the changes, press [Esc] key and follow the instructions on your screen to save your settings or exit without saving.

Virus Warning

	Setting	Description	Note
Virus Warning	Disabled	Allows you to choose the	Default
	Enabled	VIRUS warning feature for	
		IDE Hard Disk boot sector	
		protection. If this function is	
		enabled and someone attempt	
		to write data into this area,	
		BIOS will show a warning	
		message on screen and alarm	
		beep. Sound a warning beep.	

Cache Memory Options

	Setting	Description	Note
CPU L1 & L2 Cache	Disabled	Because the CPU is faster	
	Enabled	than memory, the CPU after	Default
		has to wait to complete	
		memory access. By	
		enabling L2 caching you	
		will let the CPU write or	
		read first from a very fast	
		internal memory (the CPU	
		cache) before accessing	
		main memory, thereby	
		increasing the speed of your	
		system. The CPU will	
		automatically update main	
		memories from the cache.	
CPU L2 Cache ECC	Enabled	Allows your CPU to check	Default
Checking	Disabled	for ECC when transferring	
		data from to the L2 cache	
		some performance.	

Boot Up Floppy Seek

	Setting	Description	Note
Boot Up Floppy Seek	Disabled	Seeks disk drives during boot up. Disabling speeds boot up.	
	Enabled		Default

Boot Up NumLock Status

	Setting	Description	Note
Boot Up	On	Numeric keypad in numeric mode	Default
NumLock		at boot-up.	
Status	Off	Puts numeric keypad in arrow key	
		mode at boot-up.	

Gate A20 Options

	Setting	Description	Note
Gate A20 Options	Normal	A pin in the keyboard controller	
Options		controls GateA20.	
	Fast	Lets chipset control GateA20.	Default

Typematic Settings

	Setting	Description	Note
Typematic	Disabled	Keystrokes repeat at a rate	Default
Rate Setting		determined by the	
		keyboard.	
	Enabled	When enabled, the	
		typematic rate and	
		typematic delay can be	
		selected.	

The following [Typematic Rate] and [Typematic Delay] fields are active only if [Typematic Rate Setting] is set to [Enabled]

Typematic Rate	6 (Char/sec) 8 (Char/sec) 10 (Char/sec) 12 (Char/sec) 15 (Char/sec) 20 (Char/sec) 24 (Char/sec) 30 (Char/sec)	Choose the rate at which a character is repeated when holding down a key.	Default
	250 ($\mathbf{D} \in 1$
Typematic Delay	250 (msec)	Choose how long after	Default
	500 (msec)	you press a key down the	
	750 (msec)	character begins	
	1000 (msec)	repeating.	

Security Option

Use this feature to prevent unauthorized system boot-up or use of BIOS Setup. The following table describes the security settings.

	Setting	Description	Note
			_
Security Option	Setup	If a password is set, the password prompt only appears when you attempt to enter the BIOS Setup program.	Default
	System	If a password is set, prompt appears both when entering CMOS setup and during system POST.	
APIC Mode	Disabled	Enabled the Advanced Programmable	
	Enabled	Interrupt Controller (APIC) mode. On operating systems that support it you will have more IRQs available when enabled.	Default
MPS Version	1.1	Allows you to choose the Multi	Default
Control for OS	1.4	Processor Specification (MPS)	
		VCISIOII.	

Other Control Options

	Setting	Description	Note
OS Select for DRAM>64MB	OS2	When using an OS2 operating system.	
	Non-OS2	When using another, non-OS2 operating system.	Default
HDD S.M.A.R.T. Capability	Enabled Disabled	Enabled this field when your HDD supports the S.M.A.R.T. function. Consult your HDD provider for details.	Default
Report No FDD For WIN 95	Yes	Windows will release IRQ line 6 (normally used by the Floppy Disk Drive) after you disable your on-board FDD and set this field to [Yes].	
	No	Windows will reserve INT 6 for your FDD, whether it is disabled or not.	Default

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LOGO Show

	Setting	Description	Note
Full Screen	Disabled	Set Enabled to Show Logo	
LOGO Show	Enabled	(DRAGON).	Default
			-
EPA LOGO	LOG0	Allows user to display SOYO	Default
SELECT	LOG1	logo or own logo. Logo-0 shows SOYO logo, Logo-1 shows user logo.	
Small	Disabled	Set Enabled to Show Logo(EPA).	
Logo(EPA) Show	Enabled		Default

3-4 ADVANCED CHIPSET FEATURES



Caution: Change these settings only if you are already familiar with the Chipset.

The [Advanced Chipset Features] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility Advanced Chipset Features								
System BIOS Cacheable	Disabled		Iten	n Help				
Video BIOS Cacheable	Disabled		M1					
Delay Prior to Thermal	16 Min		Menu Level	•				
AGP Aperture Size (MB)	64							
Init Display First	AGP							
$\wedge \psi \rightarrow$ Move Enter : Select +	/ - / PU / PD : Value	F10 : Save	ESC : Exit	F1: General Help				
F5 : Previous Values	F6 : Fail - Safe D	efaults	F7 : Optimized Defaults					

After you have complete the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving. The following table describes each field in the Advanced Chipset Features Menu and how to configure each parameter.

SY- P41865PE Plus DRAGON 2

CHIPSET FEATURES SETUP

	Setting	Description	Note
System BIOS	Disabled		Default
Cacheable	Enabled	The ROM area F0000H-FFFFFH is cacheable.	
Video BIOS	Disabled		Default
Cacheable	Enabled	The video BIOS area at C0000H-C7FFFH is cacheable.	
Delay Prior	4Min	Set the time for the system to decrease	-
to Thermal	8Min	performance to avoid reaching	
	16Min	maximum thermal temp. Ex. If you set	Default
	32Min	decreasing the performance 16 minutes before reaching max thermal temp.	
AGP	256M	Select the size of Accelerated Graphics	
Aperture	128M	Port (AGP) aperture. The aperture is a	
Size (MB)	64M	portion of the system memory address	Default
	32M	address space (for when your VGA	
		card runs out of memory) Host cycles	
		that hit the aperture range are	
		forwarded to the memory without any translation.	
Init Display	PCI Slot	Choose which card – AGP Display	
First	AGP	card or PCI VGA card – to initialize first.	Default

3-5 INTEGRATED PERIPHERALS



Caution: Change these settings only if you are already familiar with the Chipset.

The [INTEGRATED PERIPHERALS] option changes the values of the chipset registers. These registers control the system options in the computer. The following screen shows setup default settings.

Phoenix – Award BIOS CMOS Setup Utility Integrated Peripherals							
 Onboard USB Device SuperIO Device 			Press Enter Press Enter			Item Help	
						Menu Le	vel 🕨
		-			•		
$\uparrow \downarrow \rightarrow$ Move	Enter : Select	+ / - / PU	/ PD : Value	F10 : Sa	ave	ESC : Exit	F1: General Help
F5 : Previo	F6	F6 : Fail - Safe Defaults			F7 : Optimized Defaults		

The following tables describe each field in the INTEGRATED PERIPHERALS Menu and provide instructions on how to configure the IDE controls, FDC controls, and the onboard serial and parallel ports.

3-5.1 Onboard USB Device

This [Onboard USB Device] option changes the values of the onboard USB controller.

The following screen shows setup default setting.

Phoenix – Award BIOS CMOS Setup Utility Onboard USB Device							
USB Controller USB 2.0 Controller		-	Enabled Enabled			Item Help	
USB Keyboard Support USB Mouse Support			Disabled Disabled			Menu Level 🕨	
				_	-		
$\wedge \psi \rightarrow$ Move	Enter : Select	+ / - / PU /	/ PD : Value	F10 : Sa	ive	ESC : Exit	F1: General Help
F5 : Previ	F6	F6 : Fail - Safe Defaults			F7 : Optimized Defaults		

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

Keyboard Controls

	Setting	Description	Note
USB Controller	Disabled		
	Enabled	Select <i>Enabled</i> if you want to use your onboard Universal Serial Bus (USB) controller and you have USB peripherals.	Default
USD 2 0 Controllor	Dischlad	Salaat Enghlad if you have USD	
USB 2.0 Controller	Disabled	Select Enabled II you have USB	
	Enabled	2.0 peripherals.	Default
USB Keyboard	Disabled	Select Enabled if you want to use	Default
Support	Enabled	USB Keyboard in DOS.	
USB Mouse	Disabled	Select Enabled if you want to use	Default
Support	Enabled	USB Mouse in DOS.	

3-5.2 SuperIO Device



Caution: Change these settings only if your are already familiar with the Chipset.

The [SuperIO Device] option changes the values of the Super I/O controller. The following screen shows setup default settings.

Phoenix – Award BIOS CMOS Setup Utility								
SuperIO Device								
POWER ON Function			BUTTON O	NLY	Item Heln			
x KB Power ON Password			Enter			nem nep		
x Hot Key Po	wer ON		Ctrl-F1		М	Manu Laval		
Onboard FD	C Controller		Enabled		101			
Onboard Ser	rial Port 1		3F8/IRQ4					
Onboard Ser	rial Port 2		2F8/IRQ3					
UART Mode	e Select		Normal					
x UR2 Duplez	x Mode	Half						
Onboard Par	rallel Port		378/IRQ7					
Parallel Port	t Mode		SPP					
x ECP Mode	Use DMA		3					
PWRON Af	ter PWR-Fail		OFF					
Game Port A	Address		201					
Midi Port Address			330					
Midi Port IRQ			10					
$\land \lor \rightarrow$:Move E	Enter:Select	+/-/PU/PD:Value F10:Sa		ave	ESC:Exit	F1:General Help		
F5:Previous Values		F6:Fail-Safe Defaults				F7: Optimized Defaults		

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.
Others Optional

	Setting	Description	Note			
POWER ON Function	Password	Enables you to wake-up the system by entering a password on the keyboard.	-			
	Hot KEY	You can wake-up the system by pressing the key combination of your choice (Ctrl-F1~F12).				
	Mouse Move	Enables waking up the system by				
	Mouse Click	pressing either the right or left				
	Any KEY	mouse button.				
BUTTON-ONL		Disables the Wake-Up by	Default			
		Keyboard function.				
	Keyboard 98	Allows you to power on a system using this type or keyboard.				
If [POWER ON	Function] is set	t to [Password]				
KB Power ON Password	Enter (your password)	Set the password that will wake-up system.	o your			
If [POWER ON	If [POWER ON Function] is set to [Hot Key]					
Hot Key Power ON	Ctrl-F1~F12	Choose the key combination that w wake-up the system. [Ctrl-F1 to C	vill trl-F12]			

Onboard FDC controller

	Setting	Description	Note
	r		
Onboard FDC	Disabled	Turn off the on-board	
controller		floppy controller	
	Enabled	Use the on-board floppy	Default
		controller	

Onboard Serial Ports

	Setting	Description	Note
Onboard	Disabled		
Serial Port 1 /	3F8/IRQ4	Choose serial port 1 & 2's I/O	Default
Serial Port 2		address.	(port 1)
	2F8/IRQ3	Do not set port 1 & 2 to the	Default
		same setting except for Disabled	(port 2)
	3E8/IRQ4	or Auto.	
	2E8/IRQ3		
	Auto		

Onboard Serial Ports

	Setting	Description	Note
UART Mode Select If [UART Mode Se	Normal IrDA ASKIR SCR elect] is set to	The second serial port offers several special modes. It can either work as an infrared device (IrDA, ASKIR) or as a Smart Card reader (SCR), or as a normal serial port. o [IrDA]/[ASKIR]	Default
UR2 Duplex Mode	Half Full	Choose [Half] or [Duplex] to set UR2 in half duplex mode or full duplex mode respectively. Refer to your IR device specifications to select the suitable mode.	Default

Onboard Parallel Ports

	Setting	Description	Note
Onboard Parallel	Disabled	Choose the printer I/O	
Port	378/IRQ7	address.	Default
	3BC/IRQ7		
	278/IRQ5		
Parallel Port Mode	SPP	The mode depends on your	Default
	EPP	external device that	
	ECP	connects to this port.	
	ECP+EPP		
If [Parallel Port Mode] is	s set to [ECP] mo	de	
FCP Mode use	3	Choose DMA3	Default
ECT WIDUE USE		CHOOSE DIVIAS	Default
DMA	1	Choose DMA1	

Others Optional

	Setting	Description	Note
PWRON After PWR-Fail	On	The system will switch on when power comes back after a power failure.	
	Off	The system will remain off when power comes back after a power failure.	Default
	Former-Sts	The system will return to the state it was in before the power failure when power returns. (i.e: If the system was on, it will switch on again, if it was off, it will remain off)	
Game Port Address	Disabled	Set the I/O base address for	
	201	the ON board game port.	Default
	209	-	
Midi Port Address	Disabled	Set the I/O address for the on	
	330	board Midi port here.	Default
	300		
If [Midi Port Address] is	s set to [330]/[3	00] mode	
Midi Port IRQ	5	Select the IRQ that the	
	10	Midi port uses.	Default

3-6 POWER MANAGEMENT SETUP

The [POWER MANAGEMENT SETUP] sets the system's power saving functions.

Phoenix – Award BIOS CMOS Setup Utility							
	Power Management Setup						
ACPI Suspend	Туре	S1(POS)					
x Run VGABIOS	if S3 Resume	Auto				Item Help	
Power Manage	ement	User Define					
Video Off Metl	hod	DPMS			Menu	[evel	
Video Off In St	uspend	Yes	_				
Suspend Type		Stop Grant					
MODEM Use	IRQ	3					
Suspend Mode		Disabled	-				
HDD Power D	own	Disabled					
Soft-Off by PW	VR-BTTN	Instant-Off					
Wake-Up by P	CI card	Disabled					
Power On by R	Ring	Disabled					
x USB KB Wake	e-Up From S3	Disabled					
Resume by Ala	ırm	Disabled					
x Date (of Month	n) Alarm	0					
x Time (hh:mm:s	ss) Alarm	0:0:0					
** Reload Glol	bal Timer Ever	nts **					
Primary IDE 0		Disabled					
Primary IDE 1		Disabled					
Secondary IDE	E 0	Disabled					
Secondary IDE1		Disabled					
FDD,COM, LPT Port		Disabled					
PCI PIRQ[A-D)]#	Disabled		•			
$\wedge \downarrow \rightarrow$ Move	Enter:Select	+/-/PU/PD:Value	F10:Save	E	SC:Exit	F1:General Help	
F5:Previous Values		F6:Fail-Safe D	efaults		F7: Op	timized Defaults	

After you have completed the Power Management Setup, press [Esc] to return to the Main Menu.

Power Management Controls

	Setting	Descript	ion		Note	
ACPI Suspend Type	S1(POS) S3(STR) S1 & S3	This item suspend i	This item allows you select suspend mode.			
Run VGABIOS if S3 Resume	Auto Yes No	Some OS to load V from S3.	e Default			
Power Management	User Define	Lets you define the HDD and system power down times.			Default HDD	
		timer	timer	timer	power down	
	Min Saving Max Saving	1 Hour 1 Min	1 Hour 1 Min	1 Hour 1 Min	15 Min 1 Min	
Video Off Method	V/H Sync+Blank Blank screen DPMS	Selects the method by which the monitor is blanked.			Default	
Video Off In Suspend	Yes No	If the CPU goes into suspend mode, should the monitor also be turned off.			Default	
Suspend Type	Stop Grant	The system can wake up through external events. The system can only wake up through the Power-Button.			Default	
	PwrOn Suspend					
MODEM Use IRQ	3 3-11, NA	Selects which IRQ the modem uses to wake up from.			Default	
Suspend Mode	Disabled 1Min-1Hour	When the BIOS ser	e set time l ids a comi o enter sus	has elapsed, nand to the pend Mode.	Default	

Power Management Controls (Continue)

	Setting	Description N	Note		
HDD Power	Disabled	Γ	Defau	lt	
Down	1-15Min	When the set time has elapsed, BIOS sends a command to the HDD to power down. This turns off the HDD motor.Some mode may r suppo advar funct		older HDDs ot rt this ced on.	
Soft-Off by PWR-BTTN	Instant-off	Turns off the system power insta after pushing the power button.	ant	Default	
	Delay 4 Sec.	Turns off the system power 4 seconds after pushing the power button.			
Wake-Up by PCI card	Disabled Enabled	If enabled any PCI card using th PINE signal will wake the system up.	Default		
Power On by	Disabled			Default	
Ring	Enabled	The system will self-power on w the modem is ringing.	vhen		
USB KB Wake	Disabled	When Enabled, this feature allow	WS	Default	
Up From 83	Enabled	the USB KB to wake the system up from the S3 (suspend to RAM) state.			
Resume by	Disabled	The system ignores the alarm. De			
Alarm	Enabled	Set alarm to power on the system the date (1-31) or time (hh:mm:s If the date is set to [0], the system will self-power on by alarm everyday at the set time.	n by ss). m		

Reload Global Timer Events

	Setting	Description	Note
IDE0, IDE1	Disabled		Default
➢ Primary	Enabled	In effect, the system remains	
Secondary		alert for anything which occurs	
•		to a device which is configured	
		as Enabled.	
-			
FDD, COM, LPT	Disabled		Default
Port	Enabled	In effect, the system remains	
		alert for anything which occurs	
		to a device which is configured	
		as Enabled.	
PCI PIRQ [A-D]#	Disabled		Default
	Enabled	The system monitors these	
		elements for activity. The	
		system will resume if [IRQ	
		activity] is detected.	

3-7 PNP/PCI CONFIGURATION SETUP

This option sets the Motherboard's PCI configuration.

Phoenix – Award BIOS CMOS Setup Utility PnP/PCI Configurations						
Reset Configuration Data	Disabled	Item Help				
Resources Controlled By x IRQ Resources	Auto (ESCD) Press Enter	Menu Level 🕨				
PCI/VGA Palette Snoop Assign IRQ For VGA Assign IRQ For USB INT Pin 1 Assignment INT Pin 2 Assignment INT Pin 3 Assignment INT Pin 4 Assignment INT Pin 5 Assignment INT Pin 6 Assignment INT Pin 7 Assignment INT Pin 8 Assignment	Disabled Enabled Auto Auto Auto Auto Auto Auto Auto Auto	Default is Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the OS cannot boot.				
$\wedge \psi \rightarrow$ Move Enter:Select	+/-/PU/PD:Value F10:Sa	ve ESC:Exit F1:General Help				
F5:Previous Values	F5:Previous Values F6:Fail-Safe Defaults F7: Optimized Defaults					

Note: Starred (*) items will disappear when the [Resources Controlled By] option is set to [Auto].

After you have completed the PCI Slot Configuration, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

PNP/PCI Configuration Controls

	Setting	Description	Note			
Reset Configuration	Disabled	Retain PnP configuration data in BIOS.	Default			
Data	Enabled	Reset PnP configuration data in BIOS.				
Resources Controlled By	Manual	BIOS does not manage PCI/I card IRQ assignment.	SA PnP			
	Required to ISA PnP m IRQ-3,4,5, DMA-0,1,3	ed to assign IRQ-# and DMA-# to PCI or P manually. 4,5,7,9,10,11,12,14,15 assigned to:				
	Auto (ESCD)	The Plug-and-Play BIOS auto manages PCI/ISA PnP card IRQ assignment automatically.	Default			
If [Resources Con	ntrolled By]	is set to [Manual]				
IRQ-# assigned to:	PCI device	Choose IRQ# assigned to PCI/ISA PnP card.	Default			
	Reserved	Reserved IRQ for Legacy cards.				
 Under this item the user can assign an IRQ to a PCI slot. However, there under some conditions the IRQ will not be assigned as selected under this item: 1. IRQs 0, 1, 2, 6, 8, 13 can NOT be assigned, because they are fixed. 2. IRQs 5, 9, 10, 11 are available 3. IRQs 3,4,7,12,14 and 15 will only be assigned if they are free. See the table below on how to free them: 						

PNP/PCI Configuration Setup (Continued)	PNP/PCI	Configuration	Setup	(Continued)
---	---------	---------------	-------	-------------

Sotting Description Note						
_		Setting	Dest			NULE
Interrupt	How t	o set the BIC	OS to rele	ease the IRQ to the PnP I	nterrupt	pool:
Line	PnP/1	PCI configur	CI configuration Integrated Peripherals			
IRQ 15	IRQ 1	5: PCI / IS	A PnP	On-Chip Secondary PCI	IDE:	disabled
IRQ 14	IRQ 1	4: PCI / IS	A PnP	On-Chip Primary PCI II	DE: 0	disabled
				Interrupt 12 will be released	ased by t	he PnP
IRQ 12	IRQ 1	2: PCI/IS	A PnP	BIOS automatically if th	e PS/2 M	<i>Iouse Port</i>
				is not used.		
IRQ 7	IRQ 7	Q 7: PCI / ISA PnP		Onboard parallel port:	disabled	ł
IRQ 4	IRQ 4	: PCI / IS	A PnP	Onboard Serial port 1:	disable	d
IRQ 3 IRQ 3: PCI / ISA PnP O		Onboard Serial port 2:	disable	d		
4. Your OS may reassign another interrupt to a PCI slot after BIOS passes control						
to the OS, especially if you use Windows 95, 98, NT, XP or 2k.						
Assign IRQ Enabled BIOS w		vill assign IRQ for VGA/	USB	Default		
For	For port.					
VGA/USB Disabled BIOS won't assign IRQ for						
	VGA/USB port.					
5. Your OS may reassign another interrupt to a PCI slot after BIOS passes control						
to the	OS, es	pecially if yo	u use W	rindows 95, 98, NT, 2k or	XP.	
INT Pin	INT Pin 1~8 Auto Set to Auto the BIOS will using Default			Default		
Assignm	Assignment IROs Automatically.					

MULTI I/O ADDRESSES

Default settings for multi-I/O addresses are as follows:

Port	I/O Address	IRQ	Status
LPT1	378H	7	ECP/EPP
COM1	3F8H	4	
COM2	2F8H	3	

Warning: If a default I/O address conflicts with other I/O cards such as sound card, you must change one of the I/O addresses to remedy to this address conflict. (I/O addresses can be adjusted from the BIOS Setup Utility)

3-8 PC HEALTH STATUS

This option sets the Motherboard's PC Health Status.

-	Phoenix	(– Aw	vard BIOS C PC Health S	MOS Setu Status	p Utility		
CPU Vcore +3.3V +5V +12V DRAM Voltage AGP Voltage CPU Temperature CHA Temperature		1.72 V 3.21 V 5.02 V 11.77 V 2.59 V 1.53 V 46°C / 114°F		I Menu L	tem Help .evel		
CHA Temperature CPUFAN1Speed CHAFAN1 Speed			0 RPM 0 RPM				
$\wedge \psi \rightarrow \text{Move}$	Enter:Select	+/-,	/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help	
F5:Previous Values			Fo:Fall-Safe D	eraults		F7: Optimized Defaults	

CPU Device Monitoring

	Setting	Description	Note
CPU Vcore, +3.3V, +5V, +12V, DRAM Voltage, AGP Voltage	V	Show the current voltage status.	
CPU Temperature	°C/°F	Show the current status of the CPU temperature.	
CHA Temperature	°C/°F	Show the current status of system temperature.	
CPUFAN1 Speed	RPM	Show you the current CPUFAN operating speed.	
CHAFAN1 Speed	RPM	Show you the current CHAFAN operating speed.	

3-9 LOAD FAIL-SAFE DEFAULTS

Select the [Load Fail-Safe Defaults] option from the Main Menu to load a pre-defined safe bios settings. This option is recommended if you have instability issues.



Type [Y] to use the Setup Defaults followed by [Enter] or otherwise [N] to return to the Main Menu and keep current values.

3-10 LOAD OPTIMIZED DEFAULTS

Select the [Load Optimized Defaults] option from the Main Menu to load the pre-defined optimized BIOS settings.



Type [Y] to use the Setup Defaults followed by [Enter] or otherwise [N] to return to the Main Menu and keep current values.



Warning: If you run into any problem after changing the BIOS configuration, please load the Optimized Defaults for optimized performance.

3-11 SUPERVISOR PASSWORD

Based on the setting you have made in the [Security Option] of the [Advanced BIOS Feature] section, the password prevents access to the system or the setup program by unauthorized users. Follow this procedure to set a new password or disable the password:

- 1. Choose [Advanced BIOS Feature] in the Main Menu and press [Enter]. Select the [Security Options] item and set the field to:
- a. [System]: The password is required every time the system is booted. This means only a person who knows the password can use this computer.
- b. [Setup]: The password is required only when you attempt to enter the BIOS Setup program.
- 2. Choose [SUPERVISOR PASSWORD] from the Main Menu and press [Enter]. The following prompt appear:

Enter Password:



Warning: If you forget or lose the password, the only way to access the system is to set jumper JP5 to clear the CMOS RAM. All setup information is lost and you must run the BIOS setup program again.



Note: If you do not wish to use the password function, press [Enter] directly and the following message appears:

Password Disabled!!

3. Enter your new password and press [Enter]. The following message appears, prompting to confirm the new password:

Confirm Password:

4. Re-enter your password and then press [Enter] to exit to the Main Menu.

This diagram outlines the password selection procedure:



3-12 USER PASSWORD

When the user password option is on, you are not allowed to change any setting in the [CMOS SETUP UTILITY] except for changing the user's password. Only the supervisor's password will allow you to make changes in CMOS setup.

The password setting procedure is similar to that for the [SUPERVISOR PASSWORD] (Refer to section 3-11).

Boot Menu

Boot Menu enables user to boot-up on different boot device without going into the BIOS setup.

To enable boot Menu, press "ESC" after memory and option ROM (like the HighPoint 372N BIOS) initialization, the user will see a device menu, in which he or she can choose from which device they wish to boot.

Boot Menu
== Select a Boot First device ==
Floppy
Ls120
HDD-0
SCSI
CDROM
HDD-1
HDD-2
HDD-3
ZIP100
USB-FDD
USB-ZIP
USB-CDROM
USB-HDD
LAN
↑↓:Move ENTER:Accept F4 Exit

Chapter 4

DRIVERS INSTALLATION

The SOYO-CD will Auto Run only in Windows Based Operating Systems.

Your SY-P4I865PE Plus DRAGON 2 Motherboard comes with a CD-ROM labeled "SOYO CD". The SOYO CD contains

- a. The user's manual for your new motherboard in PDF format,
- b. The drivers software available for installation, and
- c. A database in HTML format with information on SOYO motherboards and other products.

Step 1. Insert the SOYO CD into the CD-ROM drive

If you use Windows NT or 2000, the SOYO-CD will not detect your motherboard type. In that case the following dialog will pop up, please choose your motherboard and press OK. Now the SOYO-CD Start Up Menu will be shown.

Plea	se Select Your Board		×
	P4I865PE Plus DRAGON 2		
	OK	Cancel	

(SOYO CD Start Up Program Menu)

If you use Windows 95/98/98SE/ME, the SOYO CD Start Up Program automatically detects which SOYO Motherboard you own and displays the corresponding model name.

SY- P4I865PE Plus DRAGON 2



The user's manual files included on the SOYO CD are in PDF (Postscript Document Format). In order to read a PDF file, the appropriate Acrobat Reader software must be installed in your system.

Note: The Start Up program automatically detects if the Acrobat Reader utility is already present in your system, and otherwise prompts you on whether or not you want to install it. You must install the Acrobat Reader utility to be able to read the user's manual file. Follow the instructions on your screen during installation, then once the installation is completed, restart your system and re-run the SOYO CD.

Step 2. Install Drivers and Utilities

Highlight the driver you want to install and then click ok. The Start Up program displays the drivers available for the particular model of Motherboard you own. We recommend that you only install those drivers Click the *Install Drivers* button to display the list of drivers software that can be installed with your Motherboard. The Start Up program displays the drivers available for the particular model of Motherboard you own. We recommend that you only install those drivers available for the particular model of Motherboard you own. We

driver	revision:
Intel Chipset Software Installation Utility for Win 98SE/ME/2000// Intel USB2.0 Driver for Win 98SE/ME Intel USB2.0 Driver for Win 2000/XP (click here for installation pro Davicom Onboard Lan Driver for Win 98SE/ME/2000/XP C-MEDIA Audio Driver for Win 98SE/ME/2000/XP P4I865PE DRAGON 2 Hardware Monitor for Win 98SE/ME/2000/XP ITE SIM Card Reader Driver/Utility for Win 98SE/ME/2000/XP	XP ocedure) XP
Cancel	

(Driver Installation Menu)

A short description of all available drivers follows:

> Intel Chipset Software Installation Utility for Win 98/98SE/ME/2000/XP

Windows operating system will not recognize the new INTEL 865PE chipset properly. To update the necessary .inf files that will help Windows recognize the 865PE chipset, please run this utility.

> Intel USB2.0 Driver for Win 98SE/ME

This program will install the USB 2.0 driver for Windows 98SE and Windows ME.

> Davicom Onboard Lan Driver for Win 9x/ME/NT/2000/XP

This setup program will install the Driver for Davicom Onboard Lan.

> C-MEDIA Audio Driver for Win 9x/ME/2000/NT/XP

The driver supports 2/4/6 speakers 3D positional audio.

P4I865PE DRAGON 2 hardware monitor for Win 9x/ME/2000/NT/ XP

Your motherboard comes with a hardware monitoring IC. By installing this utility Temperatures, Fan speeds and Voltages can be monitored.

> ITE SIM Card reader Driver/Utility for Win 9X/ME/NT/2K/XP

Driver to support the smart card reader. You need to install this if you use the SCR.

Select which driver you want to install and click *OK*, or click *Cancel* to abort the driver installation and return to the main menu.

Note: Once you have selected a driver, the system will automatically exit the SOYO CD to begin the driver installation program. When the installation is complete, most drivers require restart or your system before they become active.

Step 3. Check the Latest Releases

Click the 'Check the latest Releases' button to go the SOYO Website to automatically find the latest BIOS, manual and driver releases for your motherboard. This button will only work if your computer is connected to the internet through a network or modem connection. Make sure to get your internet connection up before clicking this button. After Windows XP installation, your device manager should look like this:



Drivers installation

After driver installation, your Windows XP device manager should look like this:

Ξ	STEST-7TG3070R31
	🗄 😼 Computer
	🛨 🥪 Disk drives
	🗄 🥝 DVD/CD-ROM drives
	🗄 🗃 Floppy disk controllers
	🗄 退 Floppy disk drives
	🗄 🗃 IDE ATA/ATAPI controllers
	😟 🦢 Keyboards
	😟 🐚 Mice and other pointing devices
	🖻 🕮 Network adapters
	DAVICOM 9102/A PCI Fast Ethernet Adapter
	🖻 🔧 Other devices
	🚽 🐴 Universal Serial Bus (USB) Controller
	🕀 🝠 Ports (COM & LPT)
	🕀 📾 Processors
	😑 🧐 Sound, video and game controllers
	- 🧐 Audio Codecs
	- 🧐 C-Media AC97 Audio Device
	- 🕘 Legacy Audio Drivers
	- 🕘 Legacy Video Capture Devices
	Media Control Devices
	MPU-401 Compatible MIDI Device
	Standard Game Port
	Video Codecs
	E System devices
	표 😋 Universal Serial Bus controllers

Note: To install the USB 2.0 driver, please update to Windows XP service pack 1. Check chapter 5 for more info.

Drivers directory list in the CD driver



Chapter 5

INTEL USB 2.0 DRIVER INSTALLATION

For Windows XP

USB 2.0 drivers are available for download using Windows Update for Windows XP.

For additional information regarding USB 2.0 support in Windows XP, please visit <u>http://www.microsoft.com/hwdev/bus/USB/default.asp</u> (Windows XP Service Pack1 Include USB2.0 Driver)

After installing service pack1, please do the following:

- 1) Go into the device manager.
- 2) Remove " 🧖 Universal Serial Bus (USB) Controller
- 3) Restart your system.

Next time Windows XP starts up a new USB 2.0 controller will be found.

For Windows 2000

- 1. Click Windows [Start], then move the mouse to stay on [Settings].
- 2.Click [Control Panel].
- 3.Double Click [System].
- 4.Click [Hardware] tab.
- 5.Click [Device Manager].
- 6.Right Click [! Universal Serial Bus(USB) Controller] under [Other Devices], then click [Properties].
- 7.Click [Driver] tab.
- 8. Click [Update Driver].
- 9.Click [Next].

Intel USB 2.0 Driver Installation

🔮 SY- P4I865PE Plus DRAGON 2

- 10. Choose [Search for a suitable driver for my device].
- 11.Click [Next].
- 12. Choose [Specify a location] under "Optional search locations".
- 13.Click [Next].
- 14.Click [Browse] to specify the file path where the driver is, e.g. "SOYO Dragon CD:\USB2.0\INTEL\2k\EHCI Package\".
- 15.Click [Next].
- 16.Click [Finish].



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