Wearnes

POS W370

User's Manual

www.wearnespc.com

1. Always read the safety instructions carefully.
2. Keep this User's Manual for future reference.
3. Keep this equipment away from humidity and dust.
4. Lay the equipment on a reliable flat surface before setting it up.
5. The openings on the enclosure are for air convection, hence protecting the equipment from overheating. DO NOT COVER THESE OPENINGS.
6. Make sure the voltage of the power source conforms within the permitted range before connecting the equipment to the power inlet.
7. Place the power cord in such a way that people can not step on it. Do not place anything over the power cord.
8. Always un-plug the Power Cord before inserting any add-on card module.
9. All cautions and warnings on the equipment should be noted.
10. Never pour any liquid into the opening that could damage or cause electrical shock.
11. If any of the following situations arise, have the equipment checked by qualified service personnel:
    - The power cord or plug is damaged
    - Liquid has penetrated into the equipment
    - The equipment has been exposed to moisture
    - The equipment is not working well or you can not get it to work according to the User's Manual
    - The equipment has been dropped and damaged
    - The equipment has obvious signs of breakage
12. DO NOT LEAVE THIS EQUIPMENT IN A NON-AIRCONDITIONED ENVIRONMENT WITH A STORAGE TEMPERATURE ABOVE 60ºC (140ºF) AS IT MAY DAMAGE THE EQUIPMENT.
13. For reasons of safety gloves should be worn when assembling the W370 - POS PC.

NOTE

- The technical descriptions and specifications of the W370-POS PC are subject to change without notice.

ACHTUNG!

- Wir behalten uns Änderungen der technischen Beschreibungen bzw. Spezifikationen vor.
- Aus Sicherheitsgründen ziehen Sie sich bitte beim Öffnen, Einbauen bzw. Ausbauen der einzelnen Komponenten des PCs Handschuhe an.

注意事項

- 本說明書所列規格僅供參考, 本公司保留產品修改變更之權利.
- 為了您的安全, 拆裝PC內部組件時請戴白手套以防割傷.

CAUTION: Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type of battery as recommended by manufacturer.

Manual Rev.: 1.0
Release Date: December, 2001

FCC Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a class A digital device. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at this own expense.

Notice

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

USER'S NOTICE

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CONTENTS

CHAPTER 1 INTRODUCTION & KEY FEATURES

1.1 Introduction

Congratulations on the purchase of your W370-POS PC!
You are now the owner of a state-of-the-art W370-POS PC, the PC that offers enhanced features, speed, and performance, and the PC that is unrivaled by other conventional Pentium-686-based PCs.

1.2 Key Features:

Options: **4 serial ports**

CPU	Supports Socket 370 Intel Celeron / PIII/VIA Cyrix C3 CPUs
CPU CLOCK	266 MHz to 1GHz bus frequency
MAIN MEMORY	Notebook SO-DIMM X 1 up to 512MB (SDRAM or EDO)
BIOS	Enhanced ACPI 1.0 / PnP / APM / DMI / ESCD / PCI bus 2.1 / OnNow / DRAM ECC Quick Boot / HW Monitor (LDCM) / I-O Pre-set IRQ / Spread Spectrum / PC98 compliant
CACHE MEMORY	512KB P.B. SRAM
EXPANSION SLOTS (POS RISER CARD)	Riser Card with 3 FREE Slots: one ISA bus, two PCI bus with COM3/COM4, FDD output and IDE2 CD-ROM output connector
SERIAL PORT	COM1, COM2, COM3, COM4 (COM3/4 output on riser card), IRQ selector by BIOS (jumperless) and +5v or +12V output on 9th pin by jumper selector
PARALLEL PORT	One LPT port (SPP / EPP / ECP), IRQ and address selector by BIOS
USB	TWO USB ports supporting Windows 95/98/2000
FDD	1.44MB / 3.5" FDD x 1.
ENHANCED PCI IDE	On board PCI Bus Master IDE1/2 controller with Windows utility, supports Ultra DMA/66
AGP GRAPHICS PORT	VIA 8604 AGP with shared memory from 2MB up to 32MB. Features include: • Support for 4X AGP VGA controller • Support for 3D / 2D Graphics Accelerator • Support for DVD Video Accelerator • Support for VESA DPMS VGA Monitor for Power Management • Direct X, VPE, MPEG2 • NT4.0 / 5.0, Windows95/98/2000 utility • APM / ACPI 1.0 • CRT and LCD TMDS output • PC98 compliant • Supports VESA DPMS VGA monitor for power management • Supports dual monitor output (optional) under Windows98/2000

PCI LAN PORT (10/100MBPS AUTO)	ACPI / NT4.0 / 5.0 (NDIS 5) NT 4.0 / Win95/98 utility • Remote boot ROM for NT 4.0. • NT4.0/Win95/98 Utility • PC98 compliant • Enable or disable by BIOS setup
AUDIO PORT	AC97 CODEC on board
DISK ON CHIP SOCKET	2MB up to 144MB (chip optional)
KEYBOARD PORT	PS/2 type
MOUSE PORT	PS/2 type
FRONT PANEL	Front panel features include: • AC power on/off button • 3 LED indicators: Power On/Off, HDD state & LAN state • 1.44MB FDD • Door for FDD and Power switch (with key lock) • Slim 24X CD-ROM (optional) drive bay
BACK PANEL	Back panel features include: • VGA CRT 15-pin DSUB connector • COM1/2 9-pin DSUB output connector • COM3/4 9-pin DSUB output connector • LPT 25-pin DSUB connector • PS/2 Keyboard & Mouse connector • LAN RJ-45 output connector • USB1 / USB2 connector • 2nd CRT and LCD TMDS output (optional) • Audio line in / line out, microphone-in • TV S-Video and RCA connector output (optional)
THERMAL SOLUTION	One low-noise 50mm fan (two ball) for power supply and HDD One low-noise 50mm fan (two ball) for CPU heat-pipe (water cooling system) and air tunnel
AC POWER SUPPLY	AT 80W internal power supply (UL, CSA, VDE, EMI meets FCC *B*)
AC POWER SOURCE	AC 90V to 264V, 60Hz / 50Hz
VERTICAL STAND	Two U type stands per set (optional)
CASE DIMENSIONS	11"(W) x 11" (D) x 3" (H) (280 x 280 x 75mm)
EXPORT PACKAGING	Each pack measures 34 x 34 x 17cm and weighs 5.5kg net 6.5kg gross
S/W COMPATIBILITY	DOS / OS2 V2.1 / SCO XENIX: V2.3.2 / SCO UNIX V3.2 / NOVELL / WIN 3.1/95/98/2000 /NT4.0
TEMPERATURE	**Operating:** 0ºC to 40ºC (without HDD up to 50ºC) **Storage:** -25ºC to 70ºC

OPTIONS

1. **PCI Modem Card**	Win95/98 utility (33.6 or 56K) supporting PCI2.1 / ACPI1.0
2. **Disk On Chip**	2MB up to 144MB PC98 Logo, NT4.0/Win95/98 utility
3. **Disk On Module Port**	Compact Flash card ATA IDE type I PC card socket
4. **Dual VGA out card**	2nd CRT VGA, TV and LCD TMDS add-on card
5. **IDE2 CD-ROM**	On board PCI Bus Master IDE1/2 controller with Win95 utility, supporting Ultra DMA/33

All brand names and trademarks are the property of their respective owners.

1.3 Please Note:

a. **W370 Super Compact PC Disk On Chip function is supporting Win CE 3.0. If you need this function please contact with your supplier.**
b. **If W370 Super Compact PC doesn't have TV-OUT Modules (Optional), S-terminal and RCA TV output will not function.**
c. **W370 POS PC 4 serial version, the default setting of the COM3 IRQ setting is 9 and the COM4 IRQ setting is 10.**

1.4 Suggestions:

We strongly recommend you to use those following add on device if you need to expand the functions of Super Compact PC.

Add-on card type	Brand	Model No.	Remark
LAN	Reltek	RTL8139C	10/100 Base T
	SIS	SIS900	10/100 Base T
	D-Link	DE-220P	10 Base T
	D-Link	DFE-530TX	10/100 Base T
	3 COM	3C905C	10/100 Base T
Second VGA Card	SIS	SIS6326	PCI
Modem Card	Motorola	SM56	
	Conexant (Rockwell)	MD-56KUR4	
RAID Card	Promise	Fast TRAK 100	
	3 Ware	3W - 6200	

Installation Notes for the PROCESSOR vs. ZIP 370 SOCKET
Important! Study these notes before installation!

Thank you for purchasing our products. Before installation, please review these notes. Failure to properly install and integrate your processor may impact negatively on your warranty coverage.

1 Integration Issues:

I. Before you integrate your Pentium processor in the ZIP 370① Socket, you need to carefully comply with the installation tips as described below to avoid damaging the CPU Socket due to incorrect operation.

II. Ensure your Pentium processor is put in the right position and in the right direction.

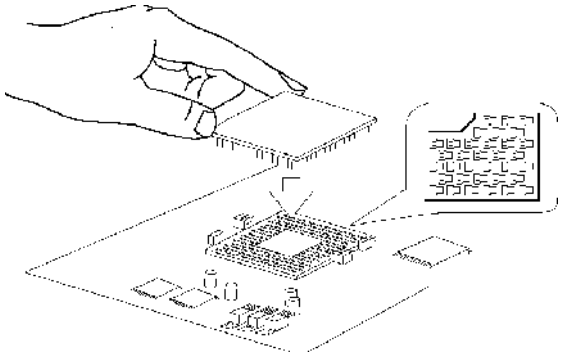
① ZIP 370 is specifically used in Notebook PCs, and is different from the Socket 370 used in Desktop PCs

2. Installation Tips:

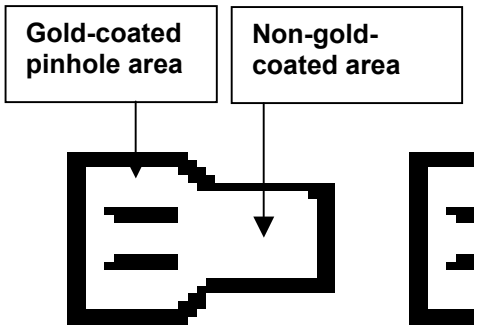
To ensure smooth installation, please pay particular attention to the following steps:

I. Align your CPU by matching the blunt corner of the processor with the corresponding distinctive pinhole arrangement in the socket.

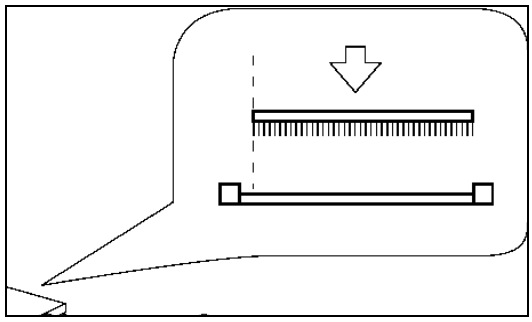
After aligning the CPU **make sure to** put your Pentium processor into the non-gold-coated pinhole area as shown on the enlarged detail below.



DETAIL OF PINHOLE:

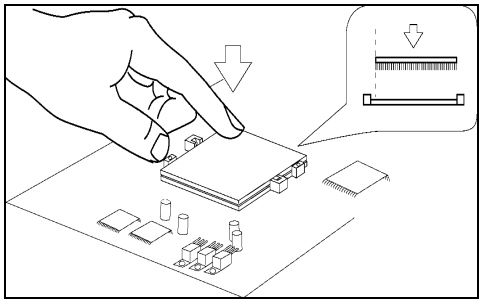


** Please make sure to put your CPU in the* **non-gold-coated** *pinhole area.*

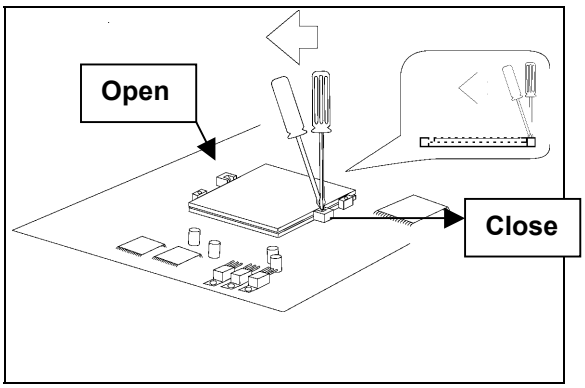


The CPU should be plugged into the socket firmly, but there is no need to use excessive force.

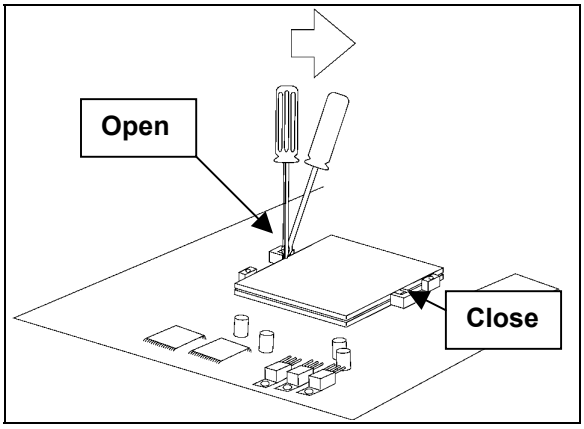
II. Insert the processor in the bottom of the pinhole precisely and firmly -
no heavy force is necessary.



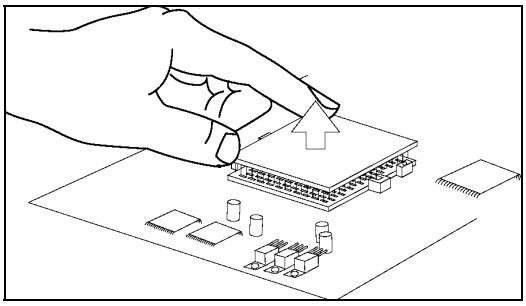
III. Use a screwdriver to push the processor from the plastic cavity engraved with “Close” to the “Open” end. This will push your processor into the gold-coated pinhole area. You can now proceed to the heatpipe installation steps.
N.B. Please note the position of the plastic cavities engraved with “Close” and “Open”



IV. If you need to remove your processor, please reverse the steps described above after removing heatpipe. Use a screwdriver to push the processor from the plastic cavity engraved with “Open” to the “Close” end. Push your processor into the non-gold-coated pinhole area.



V. Now you can remove your processor with your fingers.

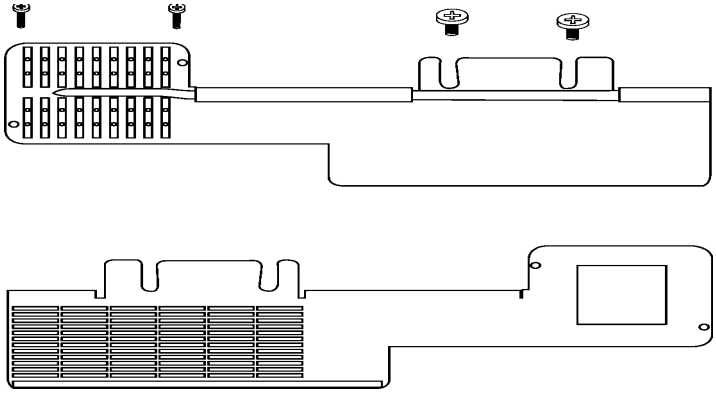


Remarks:
1. Please refer to the installation tips for the heatpipe in the following pages.
2. These notes are subject to change without notice.
3. All brands or trademarks are the property of their registered owners.
4. Please use the flat, straight type of screwdriver.

Heatpipe Installation Notes
Important! Study these notes before installation!

Thank you for purchasing our products. Before installation, please review these notes.
Failure to properly install the heatpipe may impact negatively on your warranty coverage.

1. Parts: HeatPipe (front view and rear view) + 2 pairs of screws



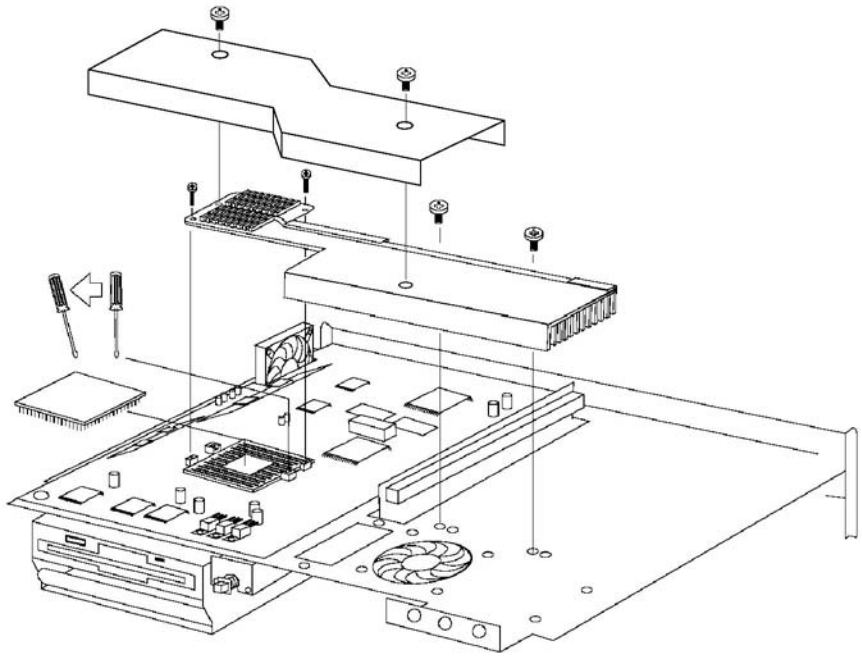
2. Assembly Tips:

I: Complete the installation procedures for the Pentium processor described in the preceding "Installation Notes for Pentium Processor vs. ZIP 370 Socket" section.

Step II: You need to fasten the pairs of screws through the heatpipe into the appropriate screw-holes in the CPU socket and in the metal bracket.

Step III: You need to fasten the pair of screws through the air tunnel into the appropriate screw-holes in the heatpipe.

To ensure smooth installation, please pay particular attention to the following diagram:



 ***x 2 for Air Tunnel***

 ***x 2 and***  ***x 2 for HeatPipe***

Notice:

Fastening the inappropriate screws into the screw-holes will cause damage on the air tunnel or heatpipe.

Remarks:
1. Please refer to the relative installation tips for other products.
2. These notes are subject to change without notice.
3. All brands or trademarks are the property of their registered owners.

CD-ROM Drive Installation Notes
Important! Study these notes before installation!

Thank you for purchasing our products. Before installation, please review these notes. Failure to properly install and integrate the CD-ROM drive may impact negatively on your warranty coverage.

1. **Assembly parts List:**

- **Internal CD-ROM (slim type)**
- **Cable set**
- **Metal bracket and screws for CD-ROM**

2. Assembly Tips:

I: Complete the installation procedures for the Pentium processor described in the preceding "Installation Notes for Pentium Processor vs. ZIP 370 Socket" section on page 5.

II: The procedures for installing the internal CD-ROM must be completed prior to the installation of the heatpipe. Please refer to the preceding "Heatpipe Installation Notes".

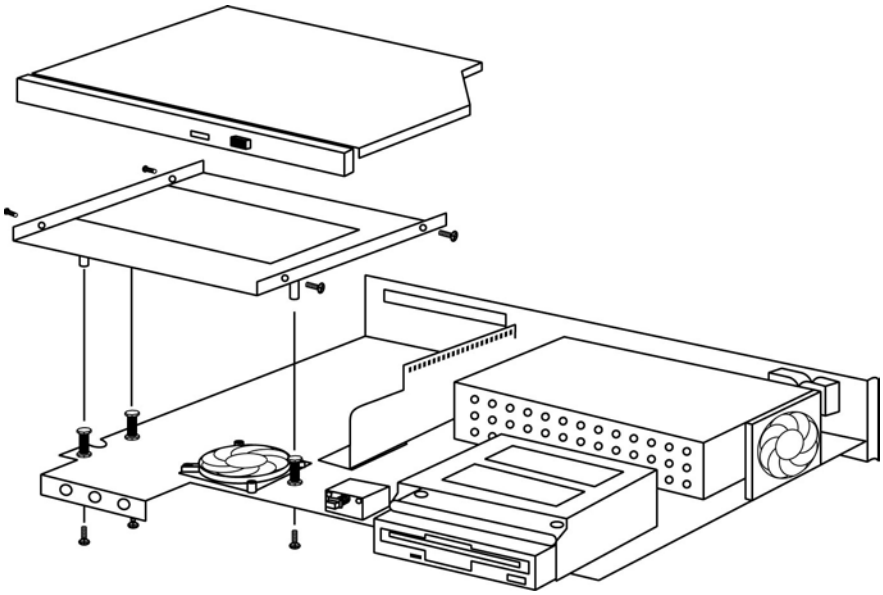
The installation of the internal CD-ROM will disadvantage the card length used in the 32-bit PCI SLOT located in PCI 1/PCI 2; the length of add-on card will be shortened as follows:

FROM: **190mm** without CD-ROM ⇨ TO: **140mm** with CD ROM

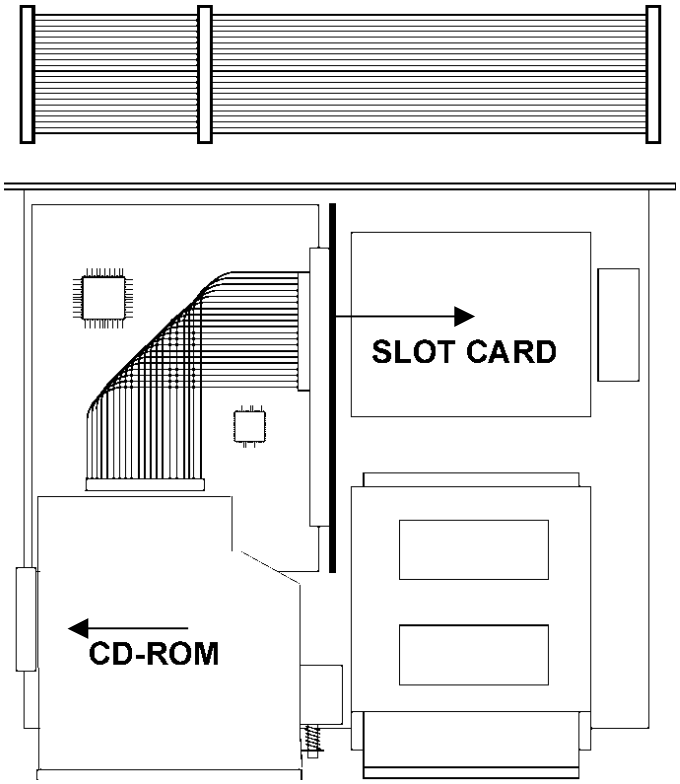
The 16-bit ISA SLOT located in ISA 1; the length of add-on card is **170mm.**

III: First you need to fasten the internal CD-ROM onto the metal bracket, then secure the CD-ROM properly in the system core by attaching the right-hand side and fastening these screws into the relevant screw-holes through the metal bracket to the system core bracket.

IV: To ensure smooth installation, please pay particular attention to the following diagram:



V: Cable connection is as follows:



Remarks:
1. Please refer to the relative installation tips for other products.
2. These notes are subject to change without notice.
3. All brands or trademarks are the property of their registered owners.

CHAPTER 2 SYSTEM CONFIGURATION
Familiarizing yourself with your W370 POS PC

2.1 The System Unit Chassis:

The following information will help you to acquaint yourself with the arrangements of the W370 POS PC.
When you open the box, you will find the same as Figure 2.1 below:

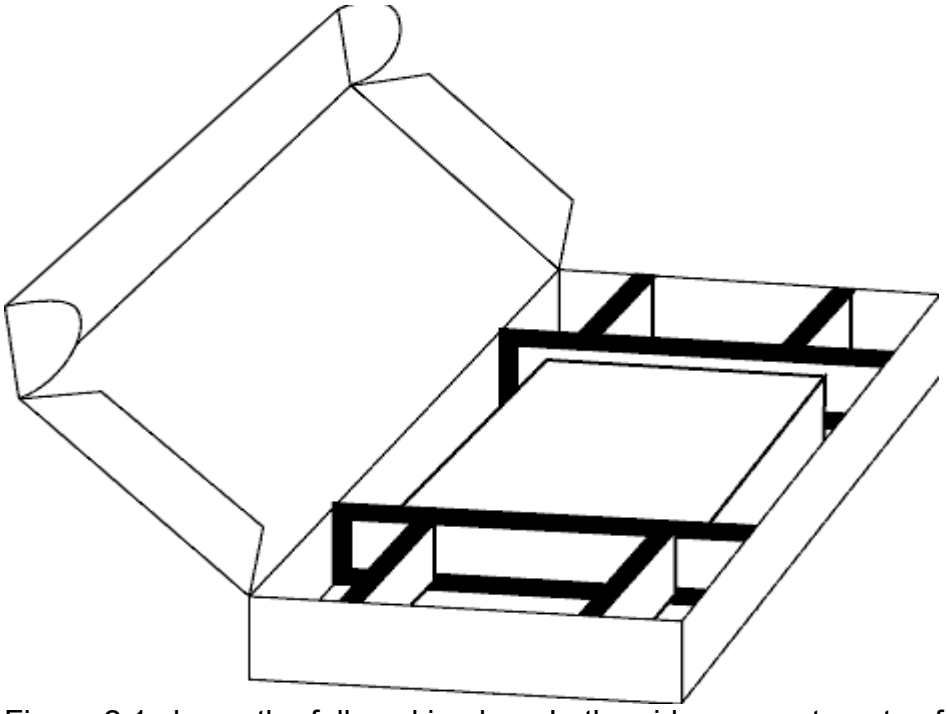
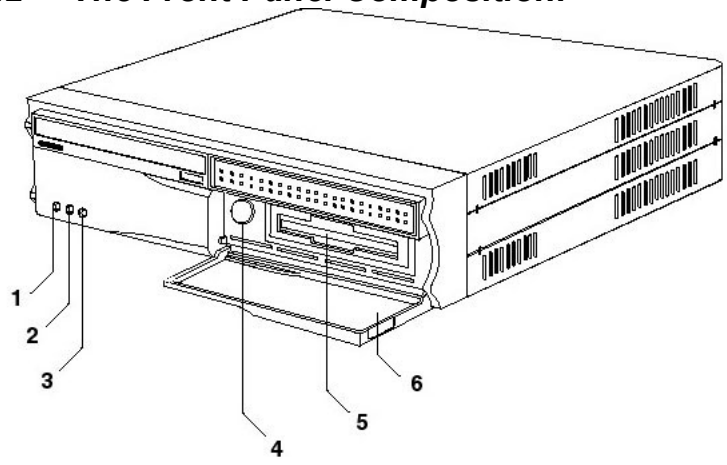


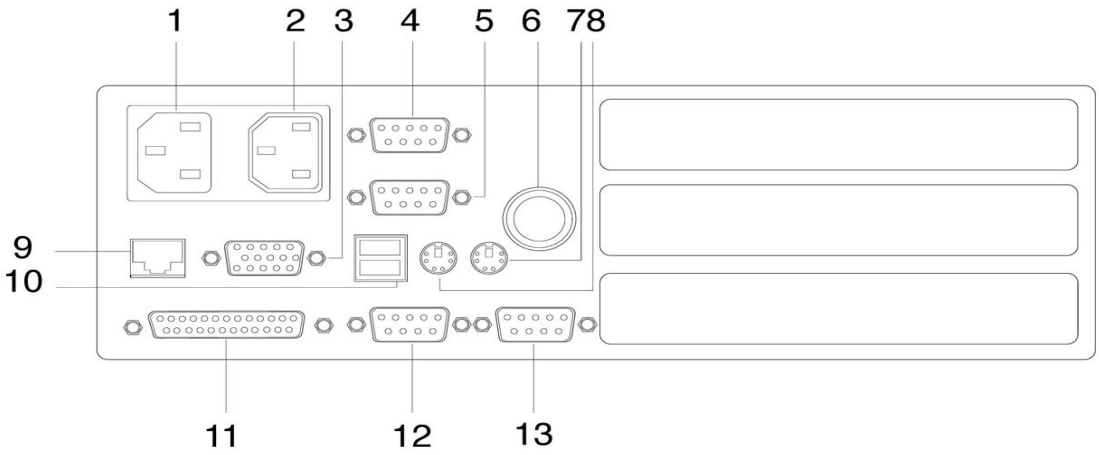
Figure 2.1 shows the full packing box. In the side compartments of each box you might find the power cord and mouse (optional), and in the center you will find the system unit containing a 3.5-inch floppy disk, hard disk (optional), and internal CD-ROM (option) drives.

2.2 The Front Panel Composition:



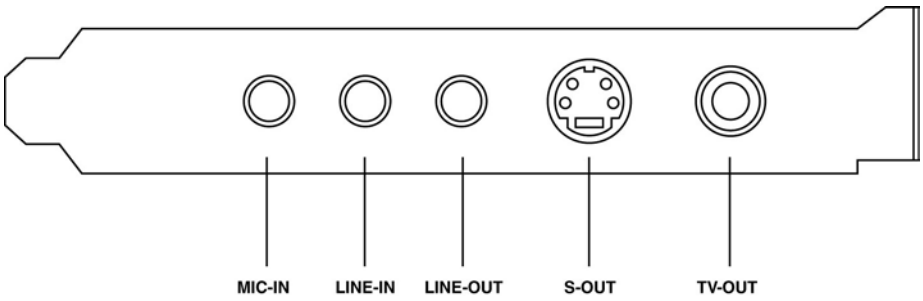
1) LED Power On Indicator	4) Power On / Off Switch
2) LED LAN Status Indicator	5) FDD Drawer
3) LED HDD Operation Indicator	6) Fold-down door panel

2.3 Rear Panel Composition:



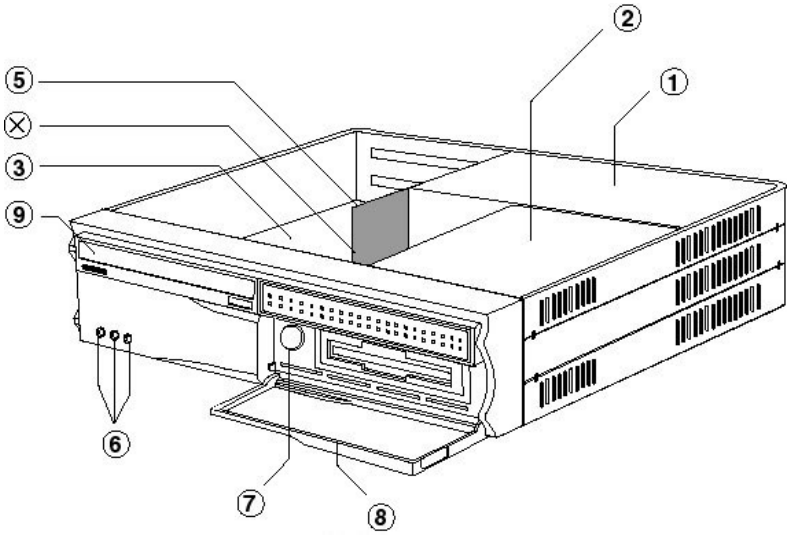
1) AC Power Input 2) AC Power Output (Switched) 3) VGA CRT Output 15-pin Connector 4) COM1 Port 5) COM2 Port 6) Pulling Knob 7) PS/2 Keyboard Port	8) PS/2 Mouse Port 9) LAN Port 10) Two USB Ports 11) Parallel Port 12) COM3 Port 13) COM4 Port

2.3.1 Audio/Video Output Bracket Composition:



Please note the S-out / TV-out is an option. If you need the function, please contact your supplier.

2.4 System Internal Composition:



1) Power Supply AC Input 90~264V 2) HDD/FDD Holding Set 3) Mainboard 5) Slot Card	6) LED (Turbo, Power, HDD) 7) AC Power Switch 8) Front Door 9) CD-ROM Drive Panel *x) Combo Card (Option)*

2.5 Connector & Jumper Pin Location:

The following pages are tables of the W370 POS PC Jumper Settings for:

- *BUS Frequency*
- *CCD Voltage*
- *COM1/2 D-Sub pin-9 selection*
- *Disk-on-Chip address*
- *SW Settings*
- *I/O Connectors*

NOTE: A specific cooling HEATPIPE is requested and supported by DTV wherever any of the CPU types are chosen. Please note this when installing the CPU and heatpipe.

*Note: In following pages, the jumper setting with "***" mark means factory default value on regular shipments.*

W370 JUMPER SETTING

BUS FREQUENCY

J1	J2	
ON	ON	AUTO DETECTED BY CPU

J4 CCD VOLTAGE SELECT

1-2	+5V	DEFAULT
2-3	+12V	

J5 COM1 D-SUB PIN9 SELECT

1-2	NORMAL	DEFAULT
2-3	+5V(or +12V)	FOR CCD

J6 COM2 D-SUB PIN9 SELECT

1-2	NORMAL	DEFAULT
2-3	+5V(or +12V)	FOR CCD

J7

1-2	NORMAL	DEFAULT
2-3	CLEAR CMOS	

J12 DISK ON CHIP SELECTOR

ON	ENABLE
OFF	DISABLE

JP1 DISK ON CHIP ADDRESS SELECT

JP1	1-2,7-8	0C800H-0C9FFH	
	1-2,9-10	0CC00H-0CDFFH	
	3-4,7-8	0D000H-0D1FFH	DEFAULT
	3-4,9-10	0D400H-0D5FFH	
	5-6,7-8	0D800H-0D9FFH	
	5-6,9-10	0DC00H-0DDFFH	

SW SETTINGS

SW1 66/100/133 MHz Configuration Jumper					
SW1	SW1-1	SW1-2	CPU	PCI	OFF➔HIGH, ON➔LOW
	OFF	OFF	133	33.3	DEFAULT
	OFF	ON	100	33.3	
	ON	ON	66	33	CELERON CPU DEFAULT
SW2 ON BOARD VGA & PCI					
SW2-1	OFF		ENABLE ON BOARD VGA		DEFAULT
	ON		DISABLE ON BOARD VGA		
SW2-2	OFF		ENABLE PCI INTERRUPT		DEFAULT
	ON		DISABLE PCI INTERRUPT		

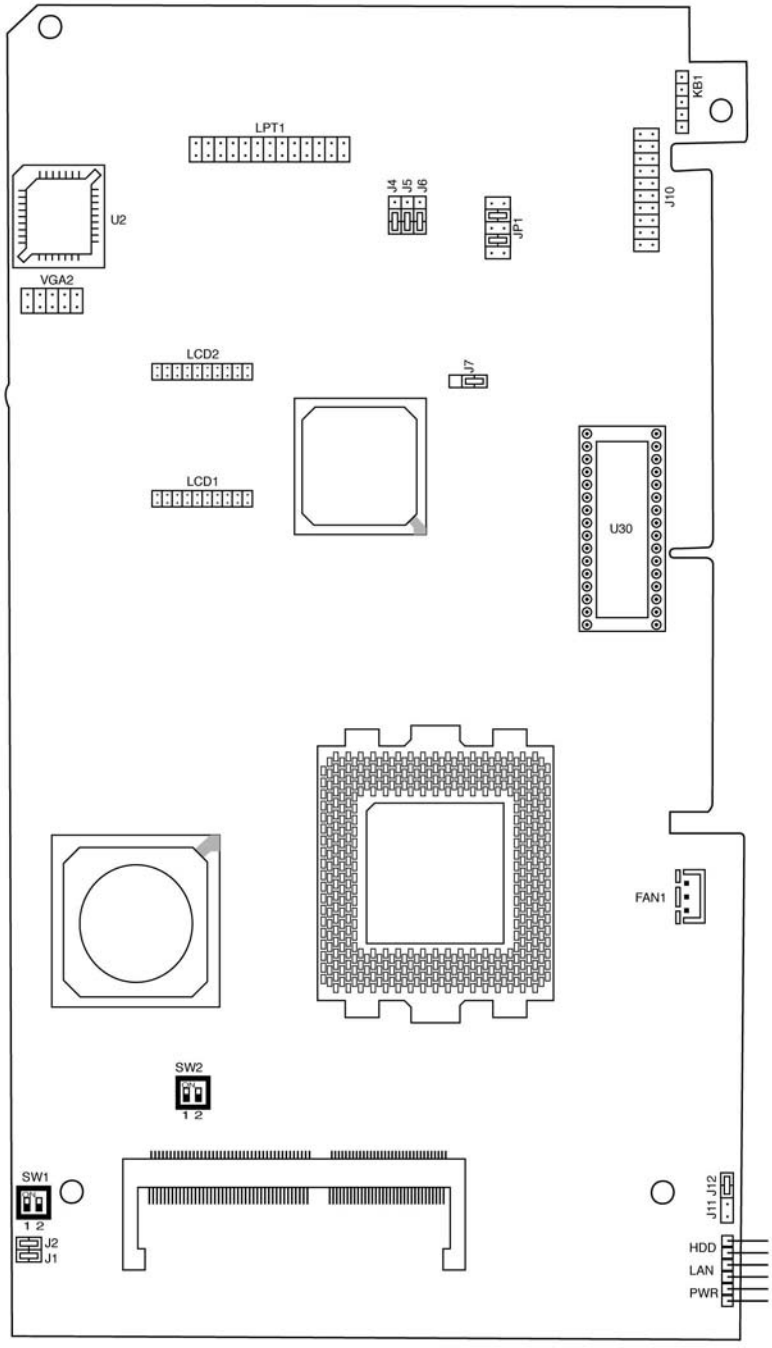
Note:

1. Only the frequency of INTEL CELERON CPU should be set manually; however, its ratio / voltage is by Auto-Detecting
2. The frequencies / ratios / voltages of the other CPUs, such as INTEL PIII and VIA C3, are all by Auto-Detecting.

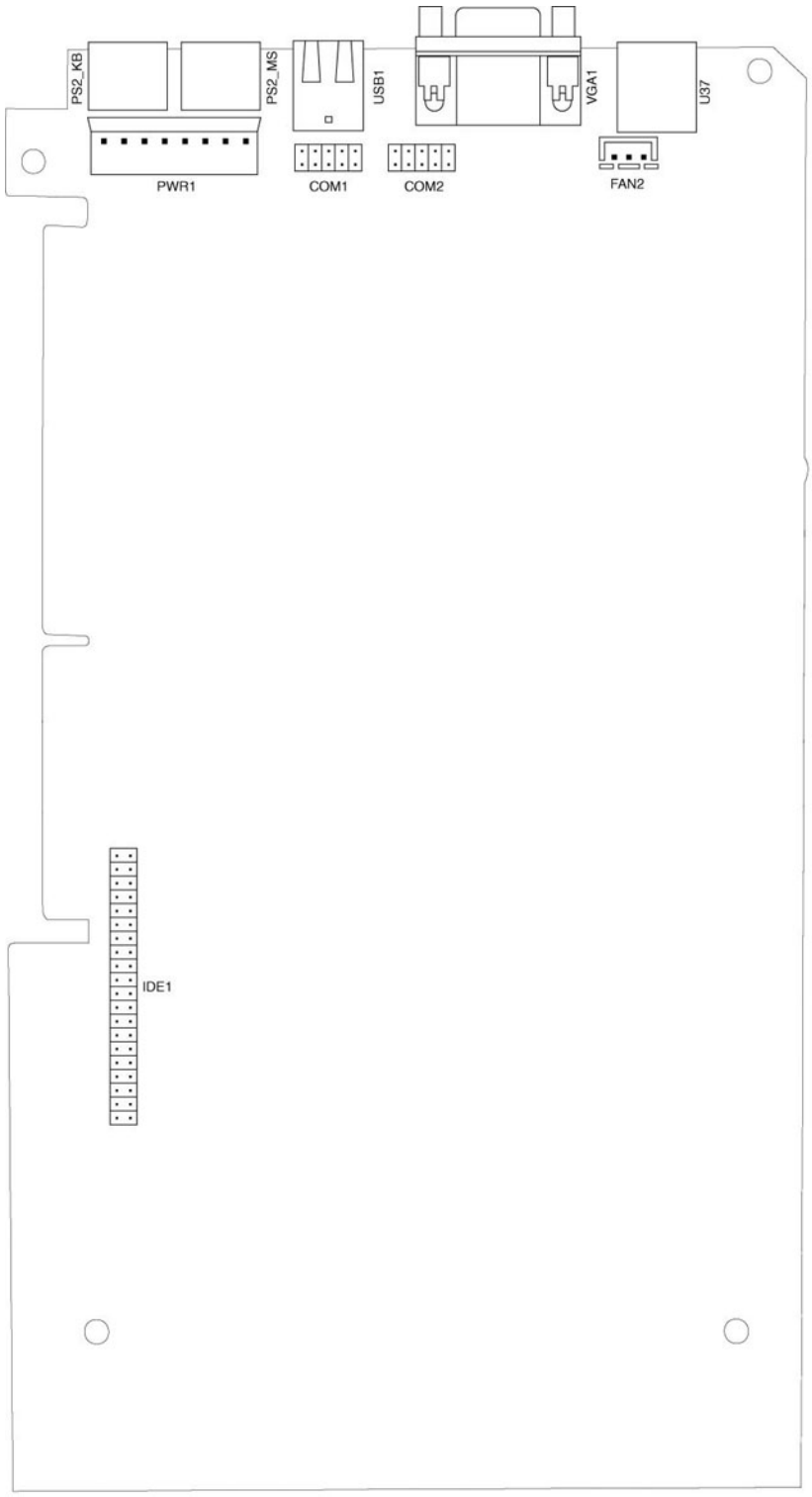
W370 POS PC MAINBOARD CONNECTORS

J8	RESET JUMPER
J10	AUDIO & TV-OUT 20 PIN CONNECTOR
VGA1	VGA DSUB 15PIN CONNECTOR
VGA2	VGA 2X5 PIN CONNECTOR
USB1	USB1 & USB2 CONNECTOR
IDE1	HDD 40 PIN CONNECTOR
COM1	COM1 2X5 PIN CONNECTOR
COM2	COM2 2X5 PIN CONNECTOR
LPT1	LPT1 2X13 PIN CONNECTOR
PS2_MS	PS2 6 PIN MOUSE CONNECTOR
PS2_KB	PS2 6 PIN KEYBOARD CONNECTOR
KB1	EXT KEYBOARD 1X5 PIN CONNECTOR
PWR1	POWER 8 PIN INPUT CONNECTOR
PWR	POWER LED CONNECTOR
LAN	LAN LED CONNECTOR
HDD	IDE1 LED CONNECTOR
J11	DISK ON CHIP LED CONNECTOR
FAN1	FAN 3 PIN CONNECTOR
FAN2	FAN 3 PIN CONNECTOR
U2	LAN BOOT ROM PLCC 32 PIN SOCKET
U30	DISK ON CHIP DIP 32 PIN SOCKET
U37	LAN RJ45 8 PIN CONNECTOR
LCD1 & LCD2	TV-OUT or TMDS PIGGY BACK BOARD CONNECTOR

W370 POS PC Mainboard Layout & Jumper Location

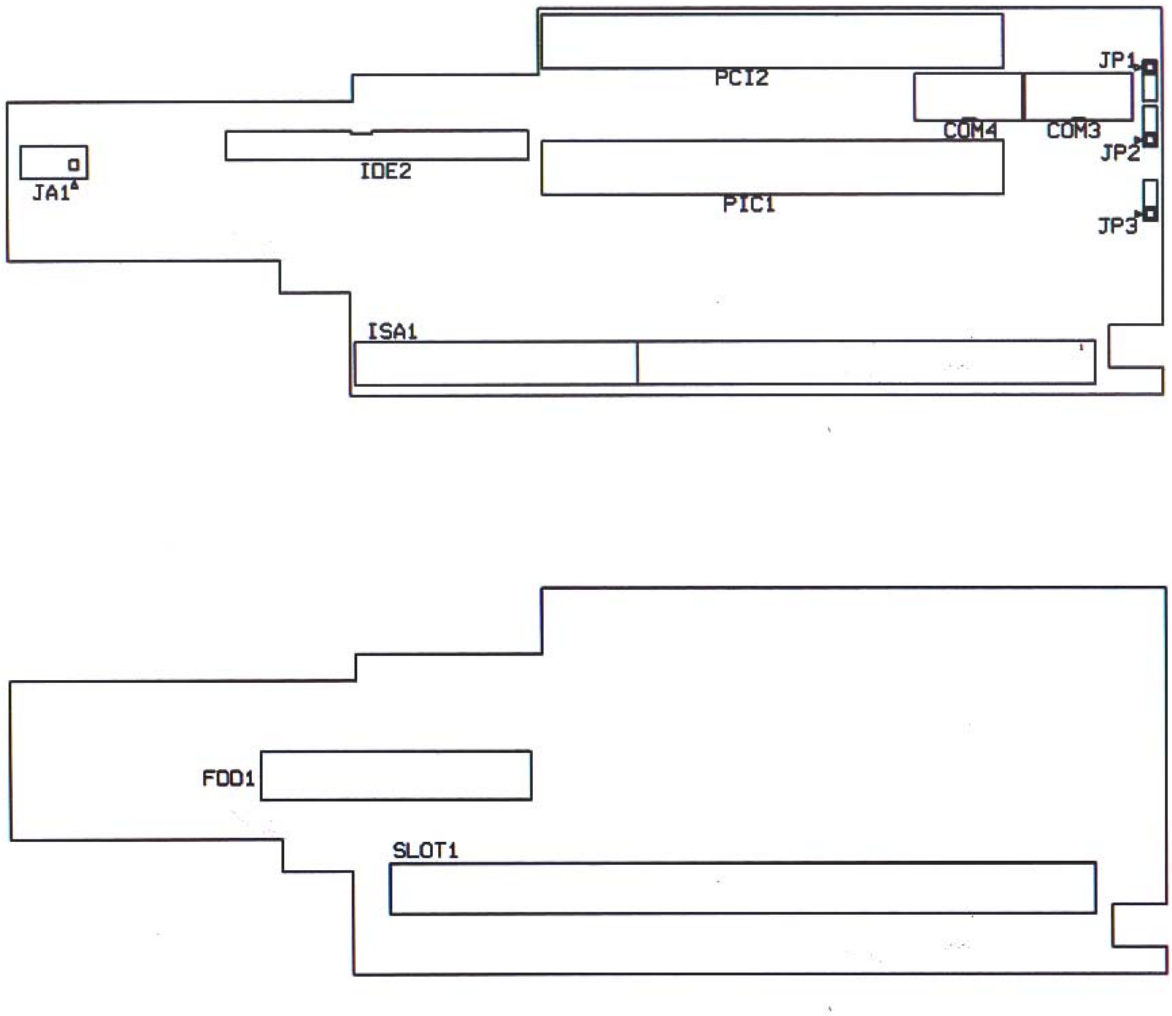


(Component Side)



(Soldering Side)

W370 POS PC Slot Card Layout (Front and Back Views):



2.8 Slot Card Jumper Setting

FDD1	FDD CONNECTOR	
IDE2	CD-ROM MINI 50-PIN CONNECTOR	
JP1 1-2 2-3	COM4 D-SUB PIN9 SELECT NORMAL +5V (OR +12V) FOR CCD	DEFAULT**
JP2 1-2 2-3	COM3 D-SUB PIN9 SELECT NORMAL +5V (OR +12V) FOR CCD	DEFAULT**
JP3 1-2 2-3	CCD VOLTAGE SELECT +5V +12V	DEFAULT**
JA1	CD-ROM AUDIO INPUT CONNECTOR	
COM3	COM3 2X5 PIN CONNECTOR	
COM4	COM4 2X5 PIN CONNECTOR	

W370 POS PC Socket 370 Specifications

Model number	**W370 POS PC Socket 370**	
CPU	Supports Socket 370 Intel Celeron / PIII / VIA Cyrix C3 CPU 266~1G MHz	
FSB	100/133MHz	
Main Memory	144-pin SODIMM (notebook) x 1 up to 512MB	
BIOS	Enhanced ACPI 1.0 / PnP / APM / DMI / ESCD / PCI bus 2.1 / On Now / DRAM ECC Quick Boot/ HW Monitor (LDCM) / I-O Pre-set IRQ / Spread Spectrum / PC98 compliant	
Floppy Disk Port	Standard 1.44MB FDD x 1	
Parallel Port	One LPT port (SPP/EPP/ ECP); IRQ and address selector by BIOS setup	
Serial Port	COM1, COM2, COM3, COM4 (COM3/4 output on Riser card); IRQ selector by BIOS setup (jumperless) and +5v or +12V output on pin 9th by jumper selector	
USB	Two USB ports supporting Windows 95/98/2000	
FDD	1.44MB 3.5" FDD x 1	
Enhance PCI IDE	On board PCI Bus Master IDE1/2 controller with Windows utility; supports Ultra DMA/66	
AGP 3D Graphics Port	VIA 8604 AGP; shared memory from 2MB up to 32MB	
	-Supports AGP (4X) VGA controller	-Direct X, VPE, MPEG2
	-Supports DVD Video Accelerator	-PC98 compliant
	-Supports 3D/2D Accelerator	-Supports VESA DPMS VGA monitor
	-NT4.0/5.0, Windows95/98/2000 utility	-CRT output and LCD TMDS output
	-APM/ACPI 1.0	-Supports dual monitor under Win98/2000
PCI LAN Port	-ACPI/NT4.0/5.0 (NDIS 5) (10/100 Mbs Auto)	
	-Remote Boot ROM for NT4.0	
	-NT4.0/Win95/98/2000 Utility	
	-PC98 compliant	
	-Enable or Disable by BIOS setup	
Audio Port	AC97 CODEC on board	
Disk On Chip Socket	2MB up to 144MB (Chip Optional)	
PS/2 Keyboard Port	PS/2 type	
PS/2 Mouse Port	PS/2 type	
Front Panel	-AC power on/off button	-3 LED indicators: Power On/Off,
	-1.44MB FDD x 1	HDD state & LAN state
	-Door for FDD and Power switch	-Slim 24 x CD-ROM bay (opt.)
Back Panel	-VGA CRT 15-pin DSUB connector	-LAN RJ-45 output connector
	-COM 1/2 9-pin DSUB output	-USB1/USB2 connector
	-COM 3/4 9-pin DSUB output	-2nd CRT/LCD TMDS output (opt.)
	-LPT 25-pin DSUB connector	-Audio line in / line out, mic-in
	-PS/2 keyboard & mouse connector	-TV S-Video/RCA output (opt.)
Thermal Solution	-One low noise 50mm fan (two ball) for Power Supply and HDD	
	-One low noise 50mm fan (two ball) for CPU heat-pipe (water cooling system)	
Expansion Slots (POS Riser Card)	Three free slots riser card: one ISA bus/two PCI bus with COM3/COM4, FDD output and IDE2 CD-ROM output connector.	
AC Power Supply		
	Two U type stand per set (option)	
Case Dimension	11" (W) x 11" (D) x 3" (H) (280 x 280 x 75mm)	
Export Packing	Each set packing: 34 x 34 x 17cm NW/GW: 5.5kg/6.5kg	
S/W Compatibility	DOS/OS2 V2.1 /XENIX V2.3.2/UNIX V3.2/NOVELL/ WIN 3.1/95 / 98 /2000 / NT4.0	
Operation Temperature	0ºC to 40ºC (without HDD up to 50ºC)	
Storage Temperature	-25ºC to 70ºC	
OPTIONS		
TV Port	S-Video/RCA TV out port (NTSC or PAL standard)	
PCI Modem Card	Win95/98/2000 utility (33.6 or 57K) support PCI2.1/ACPI1.0.	
IDE2 CD-ROM	On board PCI Bus Master IDE1/2 controller with Win95/98/2000 utility; Ultra DMA/33	
Disk On Chip	2MB up to 144MB	
Disk On Module Port	Compact Flash Card ATA IDE type I PC card socket	
Dual VGA out card	2nd CRT VGA, TV and LCD TMDS add-on card	

Specifications are subject to change without notice.

CHAPTER 3 UPGRADES

NOTE:

Your warranty remains in effect only if an authorized dealer or technician adjusts the internal settings. This section is intended only for those users who wish to perform the adjustments themselves and thereby void the warranty.
At any time, you can add (or remove) hardware to your W370 POS PC and modify its capabilities. The information in this chapter will instruct you on how to open the chassis.

3.1 Removing the Cover:

WARNING: Make sure that the power to your system, as well as any peripheral devices, is off before removing the chassis.

3.1.1 Tools:

You will need a few simple tools to remove the W370 POS PC.

* A Philips screwdriver
* Labeling material (tape, paper, pen)
* Cups or trays to hold various screws

3.1.2 Installing Add-On Cards:

The W370 POS PC includes 2 card slots for the addition of peripherals.
WARNING: Because of W370 POS PC's space-saving design, the format of add-on cards that can be installed is restricted as follows -

ISA card maximum dimensions: 110 mm (height) x 170mm (length) and PCI card maximum dimensions: 110 mm (height) x 190mm (length).

Please make sure that the add-on card you are going to install in the W370 POS PC system conforms to these requirements.

3.2 Installing the Hard Disk Drive:

WARNING: If you buy a W370 POS PC without a hard disk drive and you would like to upgrade it later then please consult with your dealer.

3.3 Memory Configuration:

The W370 POS PC lets you increase the system main memory via onboard SODIMM Sockets. The W370 POS PC supports one bank of 16/32/64/128/256/512/…MB SODIMM Modules.

*The W370 POS PC's bus frequency is set at 100MHz. You therefore need to use PC100 or PC133 standard RAM modules. If you use notebook PC type EDO DIMM modules, you must ensure that the VGA MEMORY CLOCK setting in the INTEGRATED PERIPHERALS menu of your BIOS settings is set at **66MHz**. Please refer to the BIOS Setup section in Chapter 4 of this manual.*

CHAPTER 4 BIOS SETUP

4.1 Setup Overview:

The W370 POS PC contains its own permanently programmed SETUP routing, which allows it to recognize and utilize the system's hardware. For example, one can set the system to identify hard disk and floppy disk drive capacity, the type of video being used, and the amount of memory installed. The BIOS (BASIC Input / Output System) will read this information each time the system boots up. In the first time the system is powered on, please run SETUP to configure it properly.

4.2 AWARD BIOS Setup:

The BIOS setup program provided with the Mainboard is the ROM PCI/ISA BIOS program from AWARD Software Inc. Enter the AWARD Setup program's Main Menu as follows:

1. Turn on or reboot the system;
2. After a series of diagnostic checks press the <DEL> key to enter the AMI BIOS;

3. Please select "Auto Configuration with Optimal Settings" first.

W370 POS PC Compact Line System BIOS Setup Manual

4.2.1. Setup:

The following screenshots are a guide through the CMOS setup utility for the W370 POS PC Version 1.2. The ROM PCI/ISA BIOS (2A5IMDA9) is provided by AWARD SOFTWARE INC. If you need help during this process, press F1 and a small window will pop up describing the appropriate keys to use and the possible selections for the highlighted item. To exit the help window press <Esc> or F1 again. In case of problems after you have made and saved system changes with the setup utility, the AWARD BIOS supports an override to the CMOS settings which resets the systems to its defaults so that you can reboot.

CMOS SETUP UTILITY

▶Standard CMOS Features	▶Frequency/Voltage Control
▶Advanced BIOS Features	Load Fail-Safe Defaults
▶**Advanced Chipset Features**	Load Optimized Defaults
▶Integrated Peripherals	Set Supervisor Password
▶Power Management Setup	Set User Password
▶PnP/PCI Configuration	Save & Exit Setup
▶PC Health Status	Exit Without Saving
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Time, Date, Hard Disk Type..	

Note: These settings are for the W370 POS PC POS 4-Serial model.
Note: Please always select **LOAD SETUP DEFAULTS** in the CMOS SETUP UTILITY the first time you set your BIOS.

STANDARD CMOS FEATURES

```
Date (mm:dd:yy) : Wed, Oct 17 2000
Time (hh:mm:ss) : 13 : 42 : 39

▶IDE Primary Master                                  Item Help
▶IDE Primary Slave                    [None]
▶IDE Secondary Master                                Menu Level ▶
▶IDE Secondary Slave
                                                     Change the day, month,
Drive A                               [1.44M, 3.5 in.]  year and century
Drive B                               [None]

Video                                 [EGA / VGA]
Halt On                               [All, But Keyboard]
Select Display Service                [CRT]

Base Memory                             640K
Extended Memory                       65472K
Total Memory                           1024K

↑ ↓ → ← : Move    +/-/PU/PD: Value   F10 : Save   ESC : Exit  F1 : General Help
    F5 : Previous Values  F6: Fail-Safe Defaults        F7 : Optimized Defaults
```

* Select for Display Service: When you select the functions of TV and TMDS LCD monitor, please select “Auto”.

ADVANCED BIOS FEATURES

```
  Virus Warning              [Disabled]          Item Help
  CPU Internal Cache         [Enabled]
  External Cache             [Enabled]           Menu Level ▶
  CPU L2 Cache ECC Checking  [Enabled]
  Processor Number Feature   [Enabled]           Allows you to choose
  Quick Power On Self Test   [Enabled]           the VIRUS warning
  First Boot Device          [Floppy]            feature for IDE Hard
  Second Boot Device         [HDD-0]             Disk boot sector
  Third Boot Device          [LS120]             protection. If this
  Boot Other Device          [Enabled]           function is enabled and
  Swap Floppy Drive          [Disabled]          someone attempts to
  Boot Up Floppy Seek        [Enabled]           write data into this
  Boot Up NumLock Status     [On]                area, BIOS will show a
  Gate A20 Option            [Fast]              warning message on
  Typematic Rate Setting     [Disabled]          screen and an alarm
X Typematic Rate (Chars/Sec) 6                   will beep
X Typematic Delay (Msec)     250
  Security Option            [Setup]
  OS Select for DRAM > 64MB  [Non-OS2]

↑ ↓ → ← : Move    +/-/PU/PD: Value   F10 : Save   ESC : Exit  F1 : General Help
    F5 : Previous Values  F6: Fail-Safe Defaults        F7 : Optimized Defaults
```

BIOS VERSIONS

BIOS Version	Monitor Type
2370/4S/TMDS/A1	CRT + TMDS
2370/4S/TV/A1	CRT + TV (Default)
2370/2S/TMDS/A1	CRT + TMDS
2370/2S/TV/A1	CRT + TV (Default)

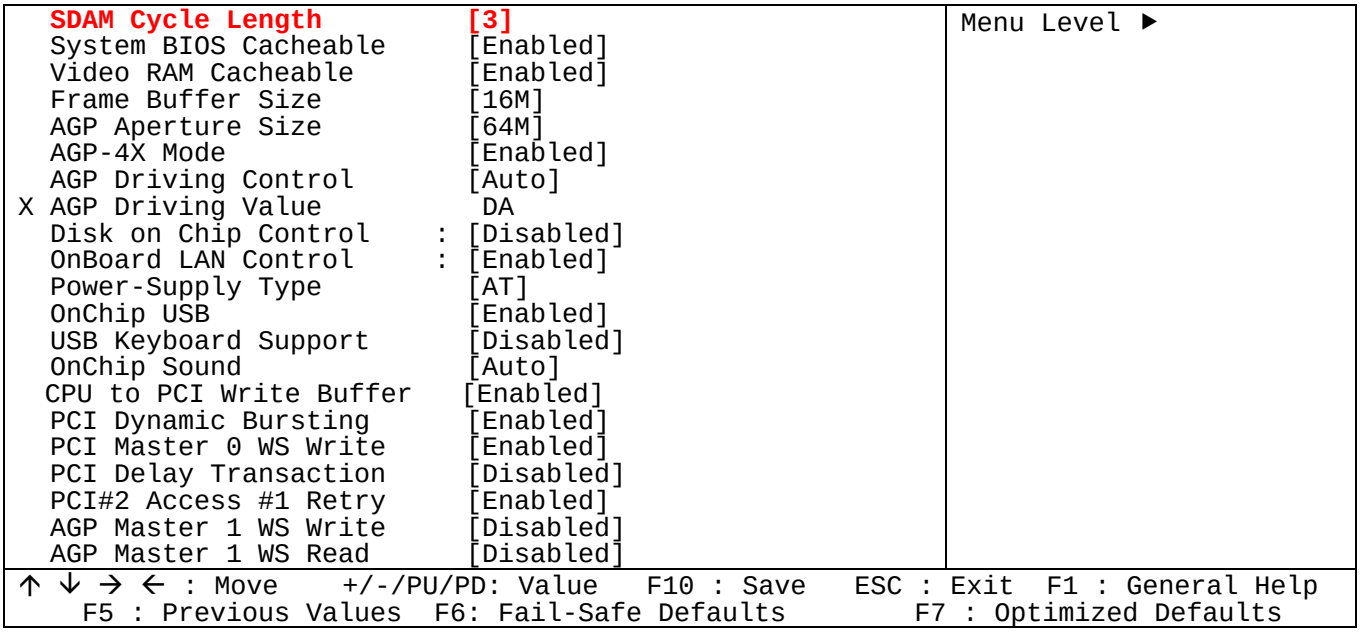
ADVANCED BIOS FEATURES

Third Boot Device	[LS120]	Item Help
Boot Other Device	[Enabled]	
Swap Floppy Drive	[Disabled]	Menu Level ▶
Boot Up Floppy Seek	[Enabled]	
Boot Up NumLock Status	[On]	
Gate A20 Option	[Fast]	
Typematic Rate Setting	[Disabled]	
X Typematic Rate (Chars/Sec)	6	
X Typematic Delay (Msec)	250	
Security Option	[Setup]	
OS Select for DRAM > 64MB	[Non-OS2]	
Video BIOS Shadow	[Enabled]	
C8000-CBFFF Shadow	[Disabled]	
CC000-CFFFF Shadow	[Disabled]	
D8000-D3FFF Shadow	[Disabled]	
D4000-D7FFF Shadow	[Disabled]	
D8000-DBFFF Shadow	[Disabled]	
DC000-DFFFF Shadow	[Disabled]	
Small Logo (EPA) Show	[Disabled]	

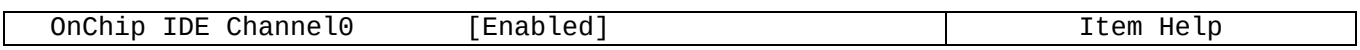
↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help
F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults

ADVANCED CHIPSET FEATURES

DRAM Clock	**[Host CLK]**	Item Help



INTERGRATED PERIPHERALS



	OnChip IDE Channel1	[Enabled]
	IDE Prefetch 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 Master UDMA	[Auto]
	Secondary Slave UDMA	[Auto]
	Init Display First	[AGP]
	IDE HDD Block Mode	[Enabled]
	Onboard FDD Controller	[Enabled]
	Onboard Serial Port 1	[3F8/IRQ4]
	Onboard Serial Port 2	[2F8/IRQ3]
	UART 2 Mode	[Standard]
X	IR Function Duplex	Half
X	TX, RX inverting enable	No, Yes
	Onboard Parallel Port	[378/IRQ7]
	Onboard Parallel Mode	[Normal]
	ECP Mode Use DMA	[3]
	Parallel Port EPP Type	[EPP1.9]
	Onboard Serial Port 3	**[3E8H]**
	Serial Port 3 Use IRQ	**[IRQ9]**
	Onboard Serial Port 4	**[2E8H]**
	Serial Port 4 Use IRQ	**[IRQ10]**
	Onboard Legacy Audio	**[Enabled]**
	Sound Blaster	**[Enabled]**
	SB I/O Base Address	[220H]
	SB IRQ Select	[IRQ 5]
	SB DMA Select	[DMA 1]
	MPU-401	[Disabled]
	MPU-401 I/O Address	[330-333H]

Menu Level ▶

↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help
F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults

POWER MANAGEMENT SETUP

▶ Power Management	[Press Enter]	Item Help
PM Control by APM	[Yes]	Menu Level ▶
Video Off Option	[Suspend → Off]	
Video Off Method	[V/H SYNC+Blank]	
Soft-Off by PWRBTN	[Instant-Off]	
▶ Wake Up Events	[Press Enter]	

↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help
F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults

PNP / PCI CONFIGURATION

PNP OS Installed	[No]	Item Help
Reset Configuration Data	[Disabled]	Menu Level ▶
Resources Controlled By	[Manual]	Select Yes if you are using a Plug and Play capable operating system; Select No if you need the BIOS to configure non-boot devices
▶ IRQ Resources	[Press Enter]	
▶ DMA Resources	[Press Enter]	
PCI/VGA Palette Snoop	[Disabled]	
Assign IRQ for VGA	[Disabled]	
Assign IRQ for VGA	[Enabled]	

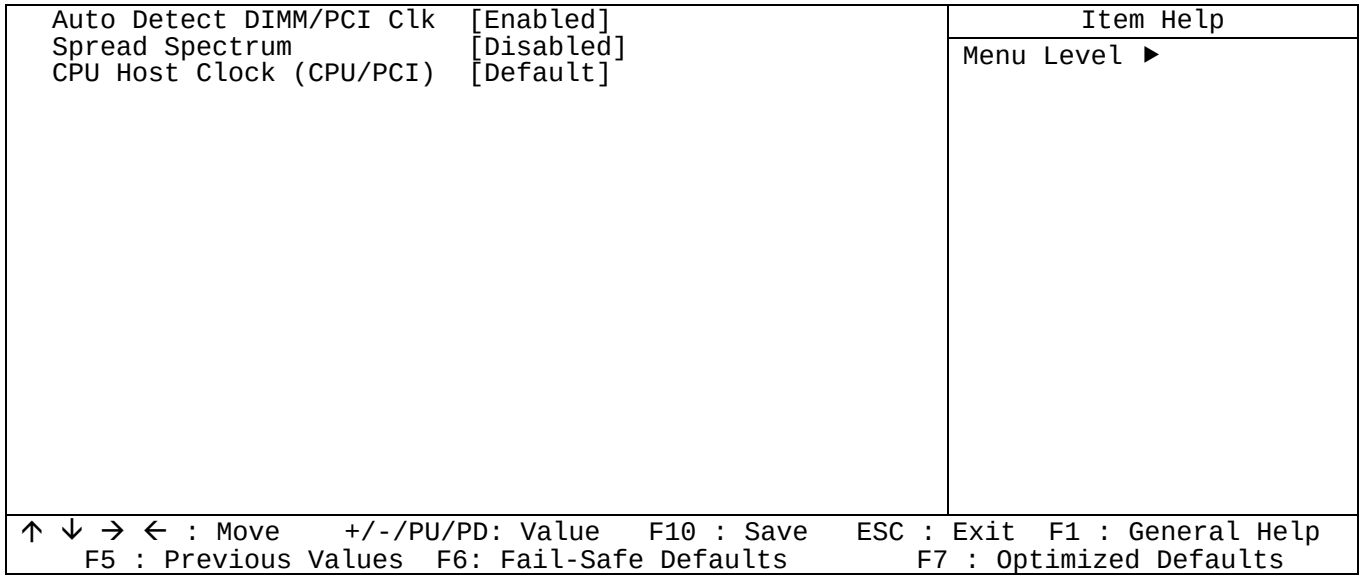
↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help
F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults

PC HEALTH STATUS

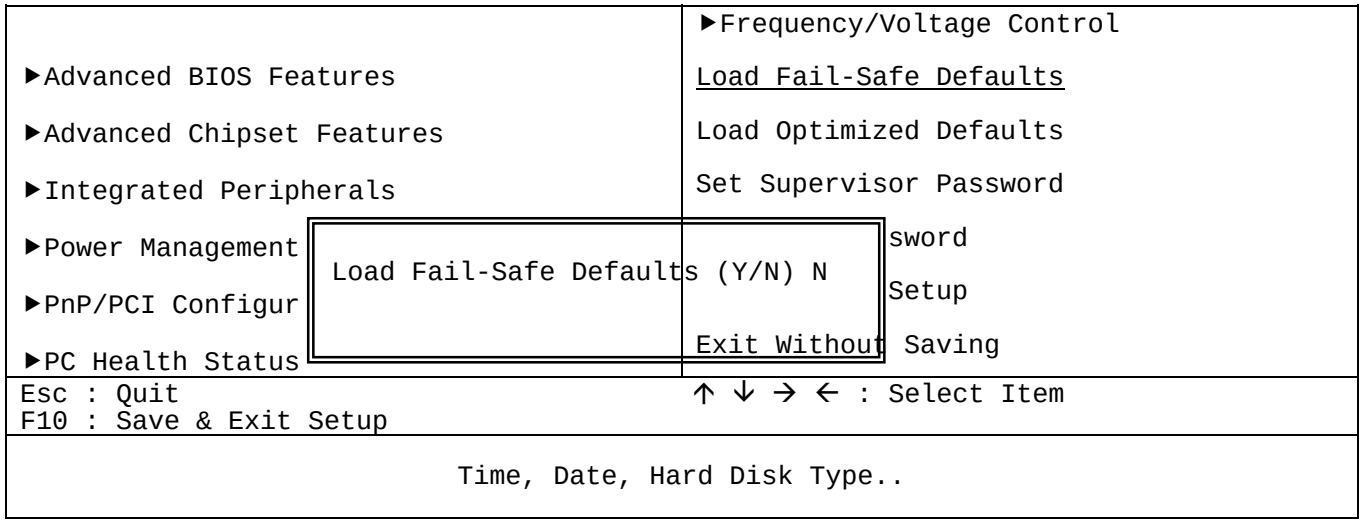
Current CPU Temp.		Item Help
Current System Temp.		Menu Level ▶
Current CPUFAN1 Speed		
Current CPUFAN2 Speed		
Vcore		
2.5V		
3.3V		
5V		
12V		
CPU FAN Warning Speed	[4000 RPM]	

↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help
F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults

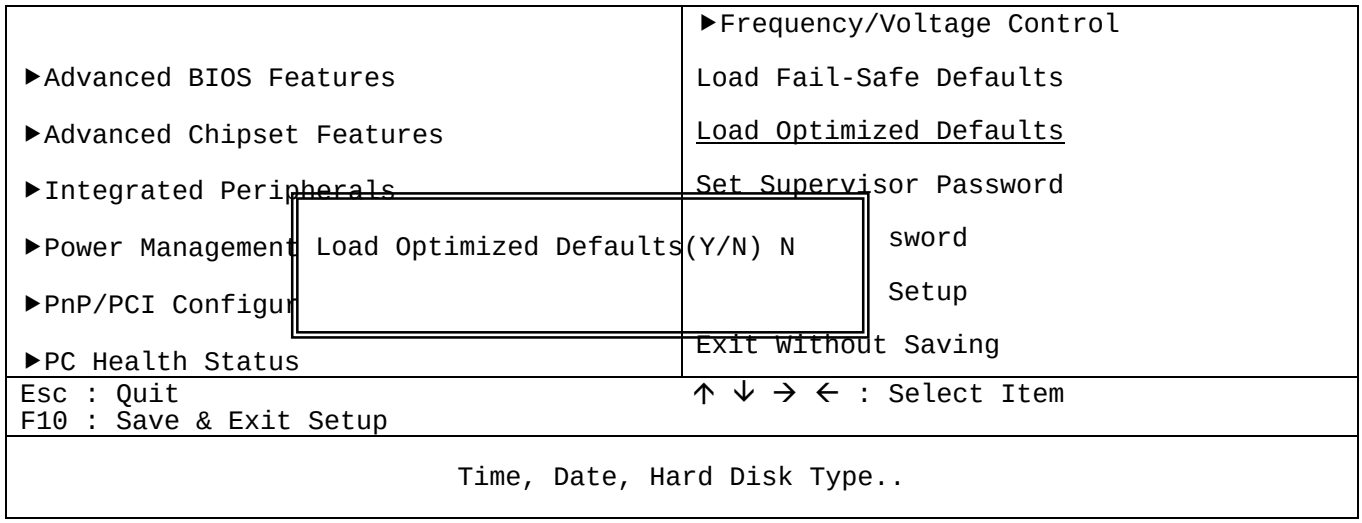
FREQUENCY / VOLTAGE CONTROL



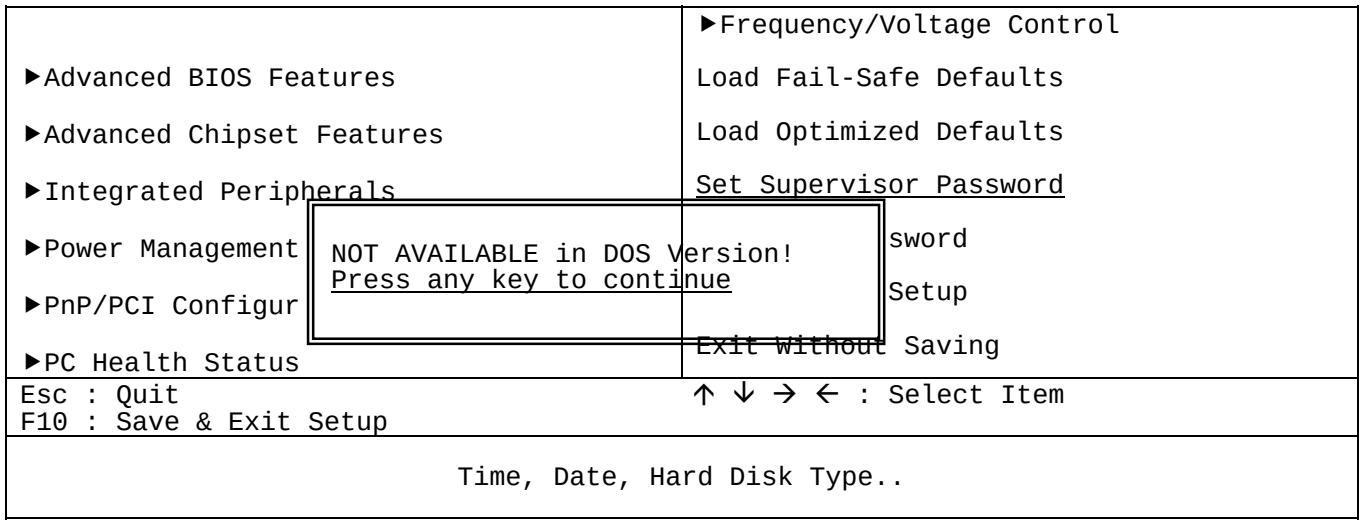
LOAD FAIL-SAFE DEFAULTS



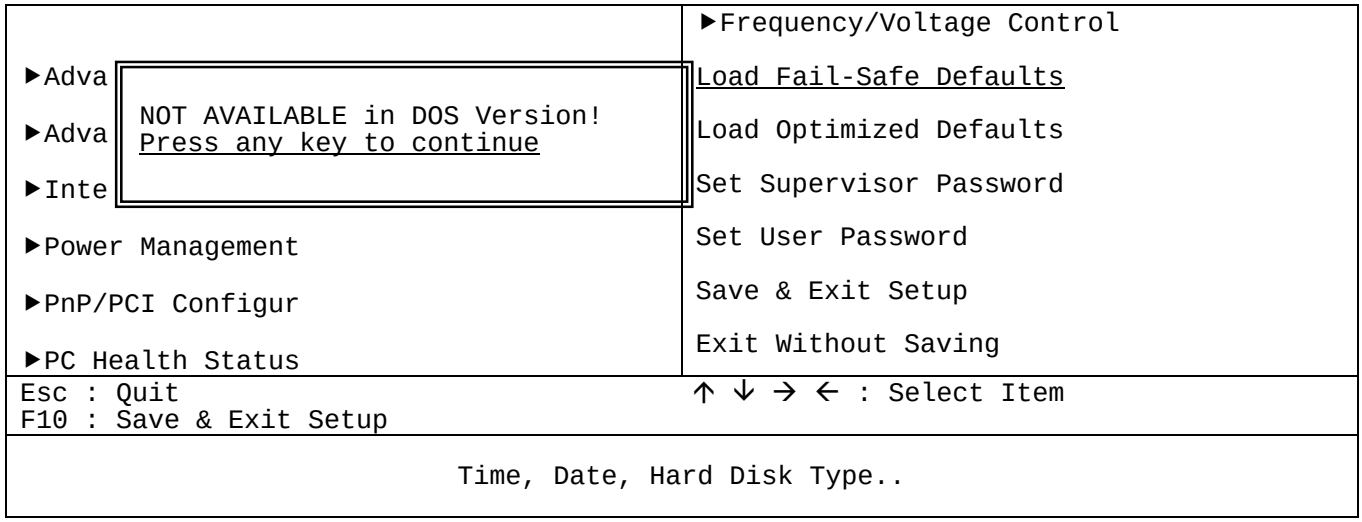
LOAD OPTIMIZED DEFAULTS



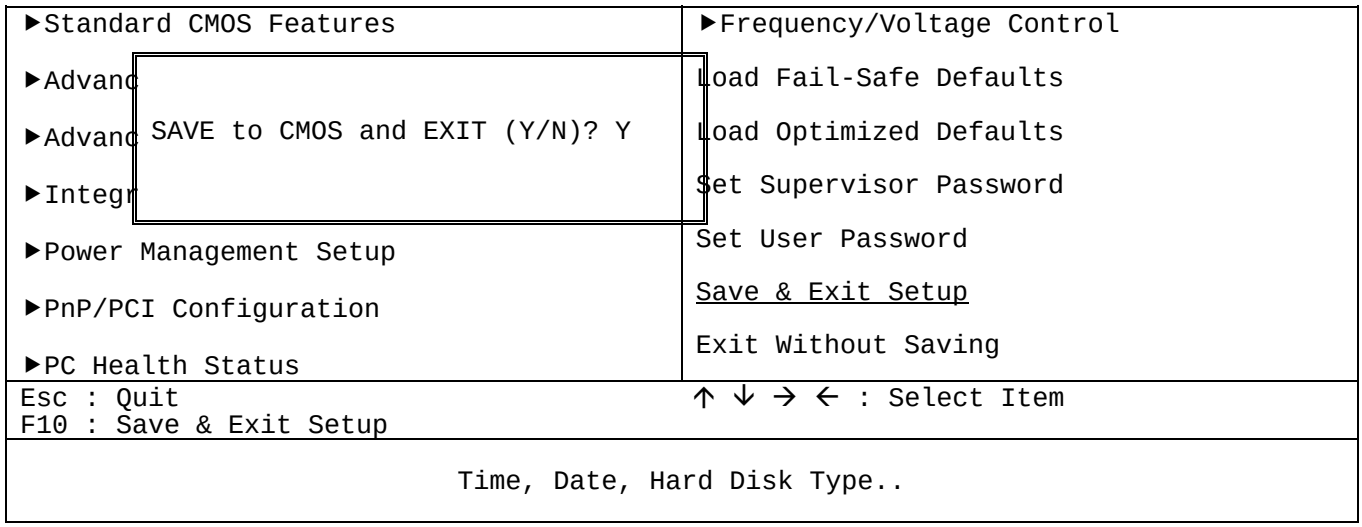
SET SUPERVISOR PASSWORD



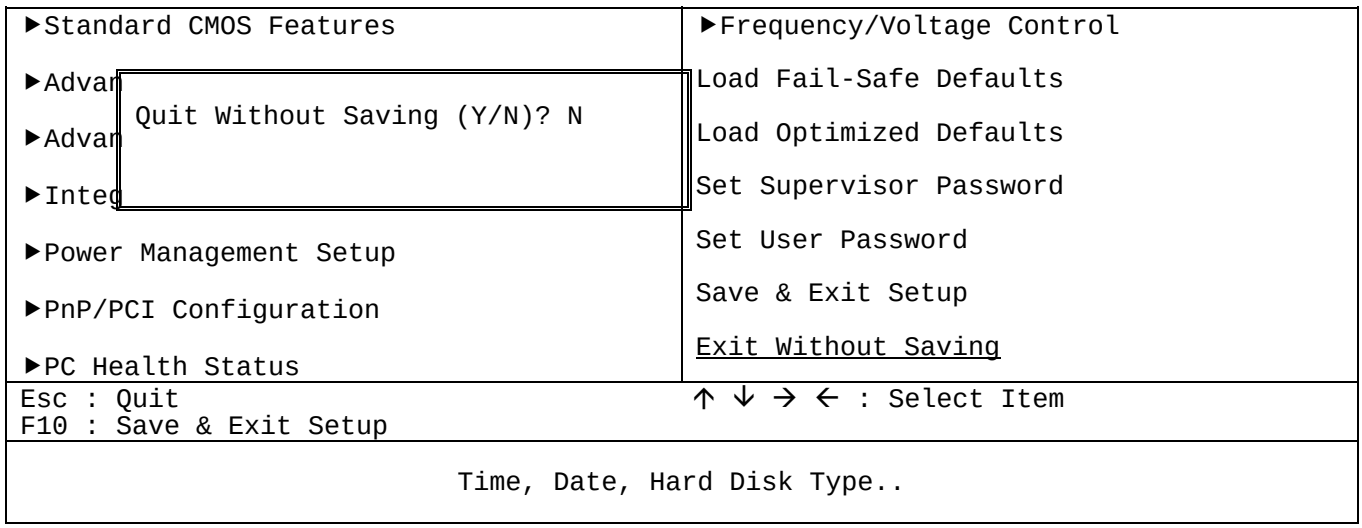
SET USER PASSWORD



SAVE & EXIT SETUP



EXIT WITHOUT SAVING



APPENDIX A W370 POS PC 2 Serial Model BIOS Settings

CMOS SETUP UTILITY

▶Standard CMOS Features	▶Frequency/Voltage Control
▶Advanced BIOS Features	Load Fail-Safe Defaults
▶Advanced Chipset Features	Load Optimized Defaults
▶Integrated Peripherals	Set Supervisor Password
▶Power Management Setup	Set User Password
▶PnP/PCI Configuration	Save & Exit Setup
▶PC Health Status	Exit Without Saving
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Time, Date, Hard Disk Type..	

Note: These settings are for the W370 POS PC POS 2-Serial model.
Note: Please always select **LOAD SETUP DEFAULTS** in the CMOS SETUP UTILITY the first time you set your BIOS.

INTERGRATED PERIPHERALS

Onboard Serial Port 2	[2F8/IRQ3]	Item Help
UART 2 Mode	[Standard]	Menu Level ▶
X IR Function Duplex	Half	
X TX, RX iverting enable	No, Yes	
Onboard Parallel Port	[378/IRQ7]	
Onboard Parallel Mode	[Normal]	
ECP Mode Use DMA	[3]	
Parallel Port EPP Type	[EPP1.9]	
Onboard Legacy Audio	[Enabled]	
Sound Blaster	[Disabled]	
SB I/O Base Address	[220H]	
SB IRQ Select	[IRQ 5]	
SB DMA Select	[DMA 1]	
MPU-401	[Disabled]	
MPU-401 I/O Address	[330-333H]	
↑ ↓ → ← : Move +/-/PU/PD: Value F10 : Save ESC : Exit F1 : General Help F5 : Previous Values F6: Fail-Safe Defaults F7 : Optimized Defaults		

APPENDIX B WARRANTY POLICY

LIMITED WARRANTY

This product is warranted to be free of defects in materials and workings. This warranty period shall begin from the date of the accompanying invoice and will be in effect for a period of 18 months.

WARRANTY RETURN PROCEDURES

The customer must call the dealer's technical support department. In order to return merchandise, the customer must have the following information readily available:

1) ***Name and Address.***
2) ***Phone Number.***
3) ***Contact.***
4) ***Serial Number.***
5) ***Invoice Number.***
6) ***Date of Purchase.***

Failure to provide complete and correct information will result in significant delays in processing your repair. Any merchandise sent for repair without a valid RMA will not be accepted. RMAs sent C.O.D. to the dealer will not be accepted. Also, the dealer will not cross-ship any repair parts: no repairs will be carried out until the merchandise has been received.

When returning merchandise for repair of refund, please put the RMA# clearly visible on the box, otherwise repairs or refunds will be delayed. When returning for refund, all parts must be returned together. Missing parts will be billed.

THE FOLLOWING SHALL VOID WARRANTY

Any unauthorized service, modification or tampering, any damages due to accident, misuse, abuse and operation outside of electrical specifications shall void the warranty.

There will be charges for labor and/or materials for repairs carried out after the warranty period has expired.

Dealer Information: