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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.

1.2 PACKAGE CHECKLIST

- ✦ HDD Cable X 1
- ✦ Serial ATA Cable X 6
- ✦ Rear I/O Panel for ATX Case X 1
- ✦ User's Manual X 1
- ✦ Fully Setup Driver CD X 1
- ✦ S/PDIF out Cable X 1
- ✦ Serial ATA Power Cable X 6
- ✦ FDD Cable X 1 (optional)
- ✦ USB 2.0 Cable X1 (optional)

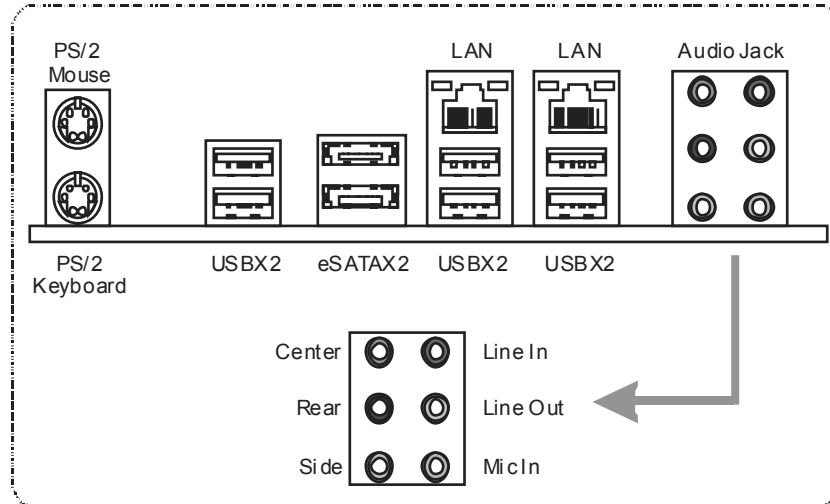
1.3 MOTHERBOARD FEATURES

	Ver 5.x	Ver 6.x
CPU	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium D / Pentium 4 processor Supports Hyper-Threading/ Execute Disable Bit/ Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium D / Pentium 4 processor Supports Hyper-Threading/ Execute Disable Bit/ Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	Support 800 / 1066 / 1333MHz	Support 800 / 1066 / 1333MHz
Chipset	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Super I/O	ITE 8718F Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface Environment Control initiatives, Hardware Monitor Controller Fan Speed Controller ITE's "Smart Guardian" function	ITE 8718F Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface Environment Control initiatives, Hardware Monitor Controller Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 4 Each DIMM supports 512MB / 1GB / 2GB DDR3 Max Memory Capacity 8GB Dual Channel Mode DDR3 memory module Supports DDR3 667 / 800 / 1066 Registered DIMM and ECC DIMM is not supported	DIMM Slots x 4 Each DIMM supports 512MB / 1GB / 2GB DDR3 Max Memory Capacity 8GB Dual Channel Mode DDR3 memory module Supports DDR3 667 / 800 / 1066 Registered DIMM and ECC DIMM is not supported
IDE	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4
SATA 2	Integrated Serial ATA Controller Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant	Integrated Serial ATA Controller Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant
LAN	Marvell 88E8056 x2 10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability	Marvell 88E8056 x2 10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability

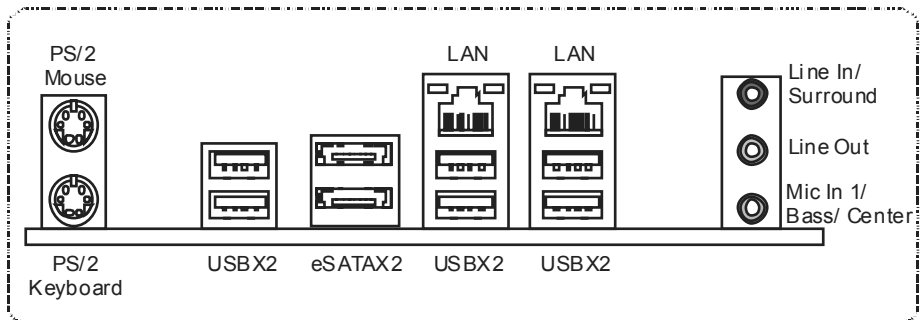
TP35D3-A7 Deluxe

	Ver 5.x		Ver 6.x	
Sound Codec	ALC888 7.1 channels audio out High Definition Audio		ALC861VD 5.1 channels audio out High Definition Audio	
Slots	PCI slot	x2	PCI slot	x2
	PCI Express x 16 slot	x1	PCI Express x 16 slot	x1
	PCI Express x 1 slot	x3	PCI Express x 1 slot	x3
On Board Connector	Floppy connector	x1	Floppy connector	x1
	Printer Port Connector	x1	Printer Port Connector	x1
	IDE Connector	x1	IDE Connector	x1
	SATA Connector	x6	SATA Connector	x6
	Front Panel Connector	x1	Front Panel Connector	x1
	Front Audio Connector	x1	Front Audio Connector	x1
	CD-in Connector	x1	CD-in Connector	x1
	S/PDIF out connector	x1	S/PDIF out connector	x1
	S/PDIF in connector(optional)	x1	S/PDIF in connector(optional)	x1
	CPU Fan header	x1	CPU Fan header	x1
	System Fan header	x2	System Fan header	x2
	Clear CMOS header	x1	Clear CMOS header	x1
	USB connector	x3	USB connector	x3
	Serial port Connector	x1	Serial port Connector	x1
	Power Connector (24pin)	x1	Power Connector (24pin)	x1
	Power Connector (8pin)	x1	Power Connector (8pin)	x1
	Power Connector (4pin)	x1	Power Connector (4pin)	x1
Back Panel I/O	PS/2 Keyboard	x1	PS/2 Keyboard	x1
	PS/2 Mouse	x1	PS/2 Mouse	x1
	eSATA Port (Marvel 88SE6121)	x2	eSATA Port (Marvel 88SE6121)	x2
	LAN port	x2	LAN port	x2
	USB Port	x6	USB Port	x6
	Audio Jack	x6	Audio Jack	x3
Board Size	244 (W) x 305 (L) mm		244 (W) x 305 (L) mm	
Special Features	RAID 0 / 1 / 5 / 0+ 1 support		RAID 0 / 1 / 5 / 0+ 1 support	
OS Support	Windows 2000 / XP / VISTA Biostar Reserves the right to add or remove support for any OS with or without notice		Windows 2000 / XP / VISTA Biostar Reserves the right to add or remove support for any OS with or without notice	

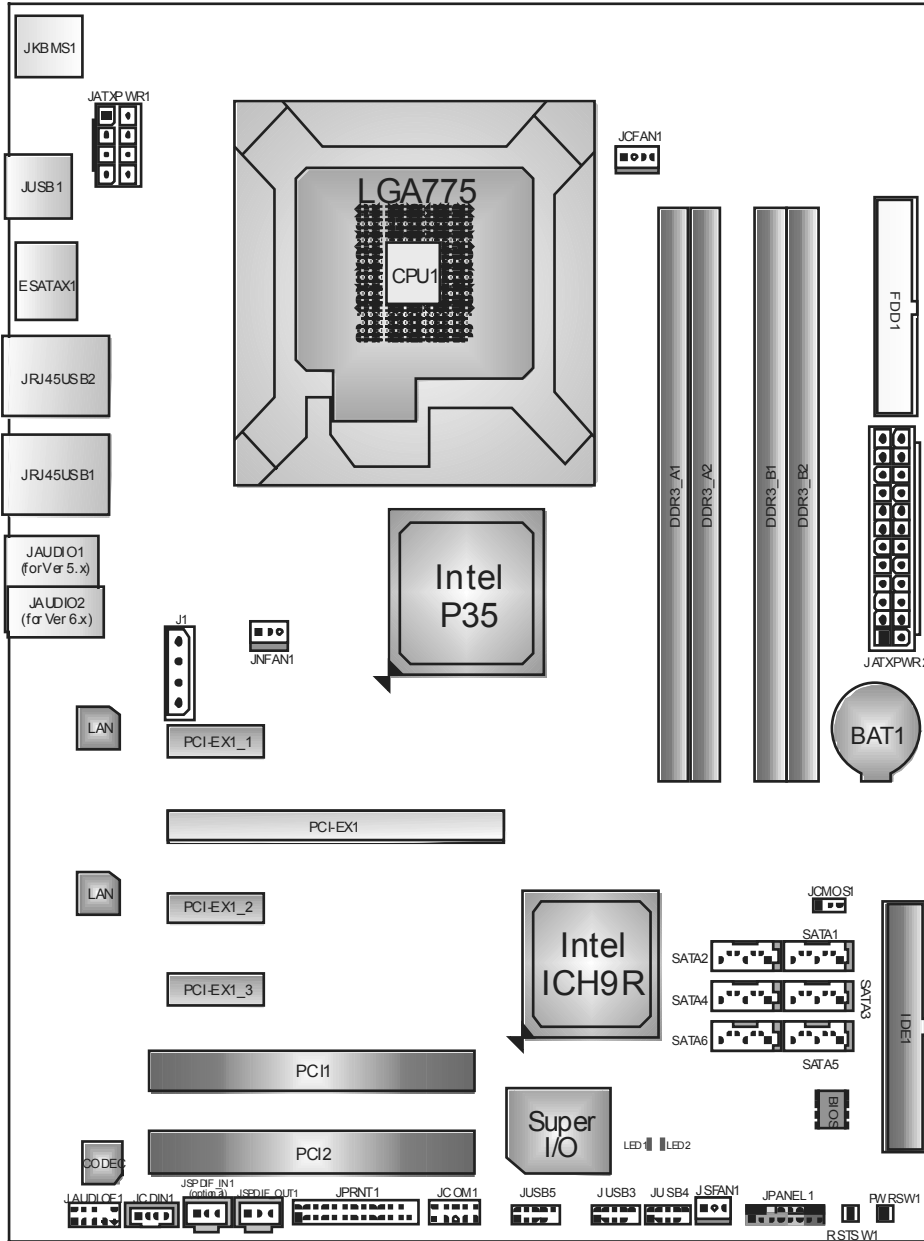
1.4 REAR PANEL CONNECTORS (FOR VER 5.x)



1.5 REAR PANEL CONNECTORS (FOR VER 6.x)



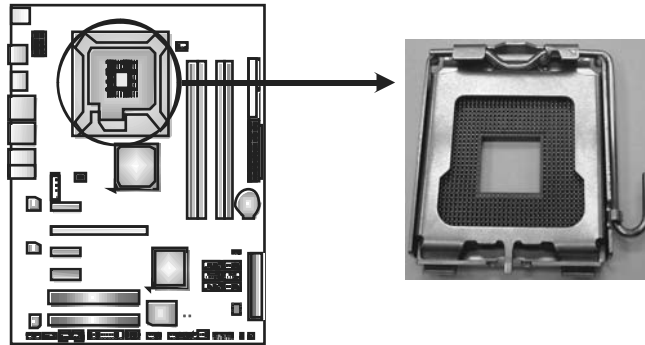
1.6 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

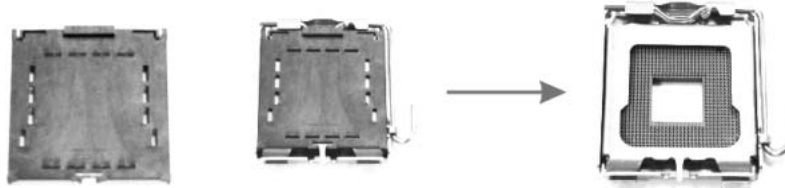
CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



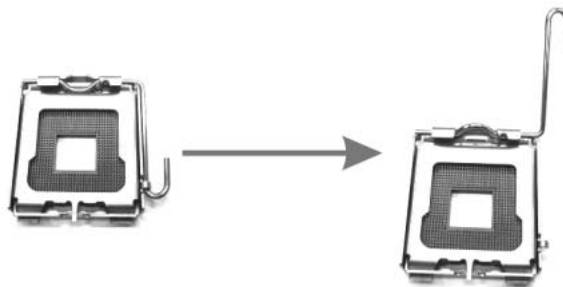
Special Notice

Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.



Pin Cap

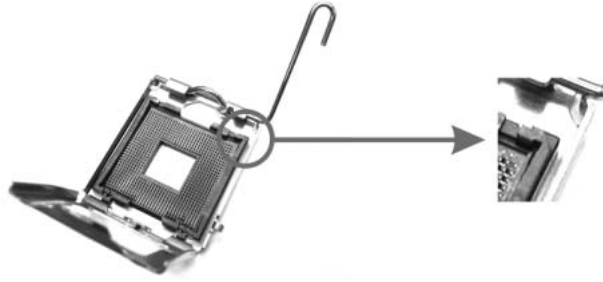
Step 1: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



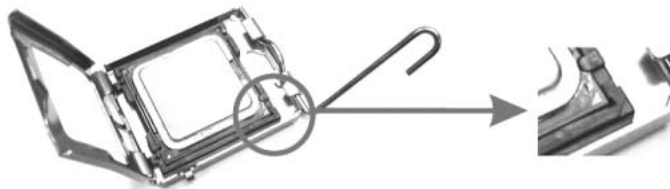
TP35D3-A7 Deluxe

Step 2: Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.

Step 2-1:



Step 2-2:



Step 3: Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.

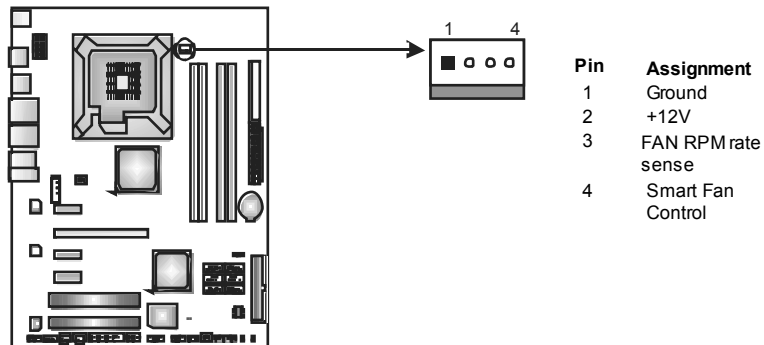


Step 4: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

2.2 FAN HEADERS

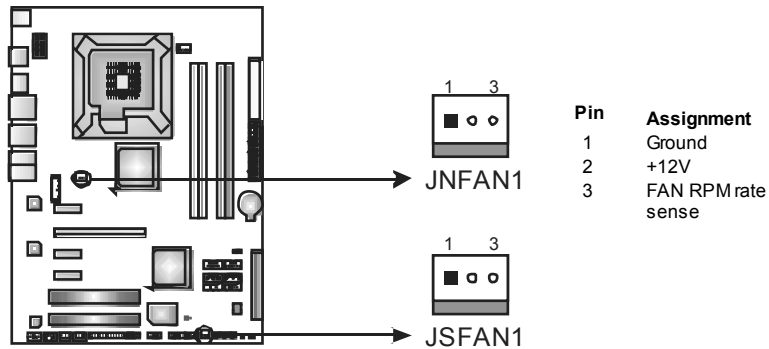
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

JCFAN1: CPU Fan Header



JSFAN1: System Fan Header

JNFAN1: Northbridge Fan Header

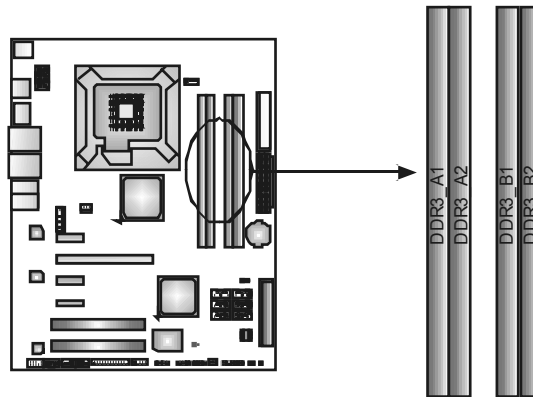


Note:

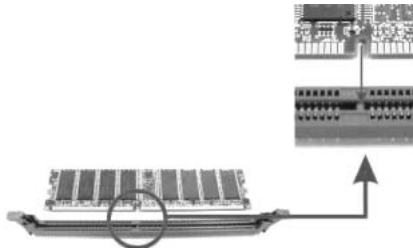
The JNFAN1 and JSFAN1 support 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

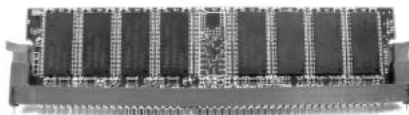
A. Memory Modules



1. Unlock a DIMM slot by pressing the retaining dips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size
DDR3_A1	512MB/1GB/2GB	Max is 8GB.
DDR3_A2	512MB/1GB/2GB	
DDR3_B1	512MB/1GB/2GB	
DDR3_B2	512MB/1GB/2GB	

C. Dual Channel Memory installation

To trigger the Dual Channel function of the motherboard, the memory module must meet the following requirements:

Install memory module of the same density in pairs, shown in the following table.

Dual Channel Status	DDR3_A1	DDR3_A2	DDR3_B1	DDR3_B2
Enabled	O	X	O	X
Enabled	X	O	X	O
Enabled	O	O	O	O

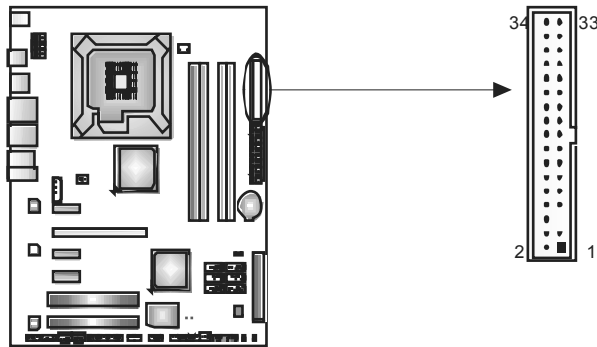
(O means memory installed, X means memory not installed.)

The DRAM bus width of the memory module must be the same (x8 or x16)

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

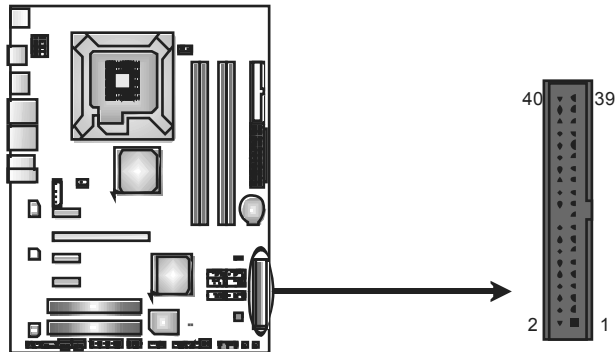
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE1: Hard Disk Connector

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality.

The IDE connector can connect a master and a slave drive, so you can connect up to two hard disk drives.

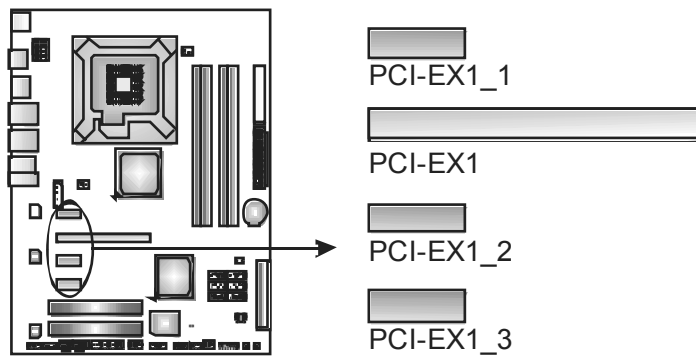


PCI-EX1: PCI-Express x16 Slot

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

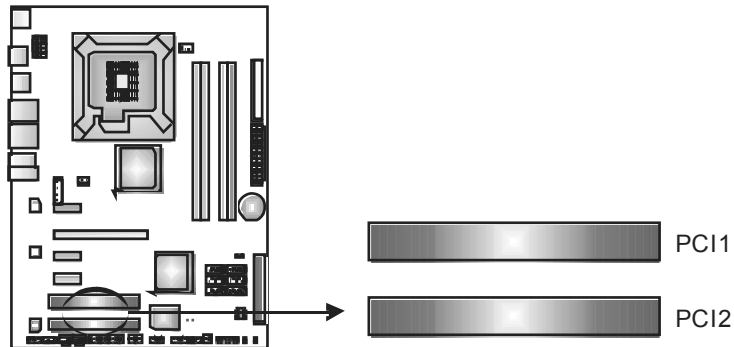
PCI-EX1_1/PCI-EX1_2/PCI-EX1_3: PCI-Express x1 Slots

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 250MB/s simultaneously per direction, for an aggregate of 500MB/s totally.



PCI1/PCI2: Peripheral Component Interconnect Slots

This motherboard is equipped with 2 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. These PCI slots are designated as 32 bits.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

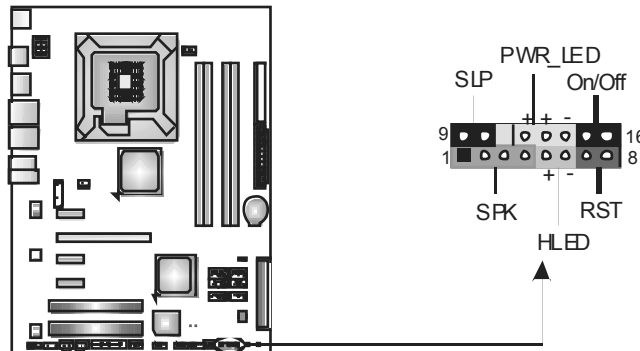
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

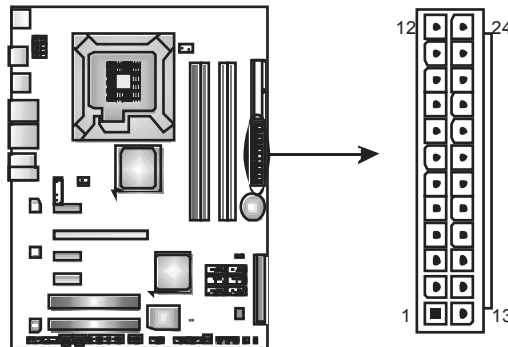
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button and speaker connection. It allows user to connect the PC case’s front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	Sleep control	Sleep button
2	N/A		10	Ground	
3	N/A		11	N/A	N/A
4	Speaker	Hard drive LED	12	Power LED (+)	Power LED
5	HDD LED (+)		13	Power LED (+)	
6	HDD LED (-)	Reset button	14	Power LED (-)	Power-on button
7	Ground		15	Power button	
8	Reset control		16	Ground	

JATXPWR2: ATX Power Source Connector

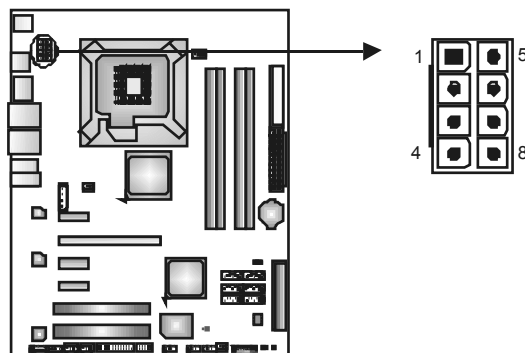
JATXPWR2 allows user to connect 24-pin power connector on the ATX power supply.



Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

JATXPWR1: ATX Power Source Connector

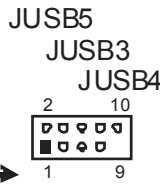
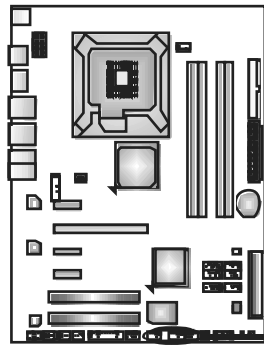
By connecting this connector, it will provide +12V to CPU power circuit.



Pin	Assignment
1	+12V
2	+12V
3	+12V
4	+12V
5	Ground
6	Ground
7	Ground
8	Ground

JUSB3/JUSB4/JUSB5: Headers for USB 2.0 Ports at Front Panel

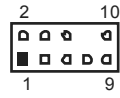
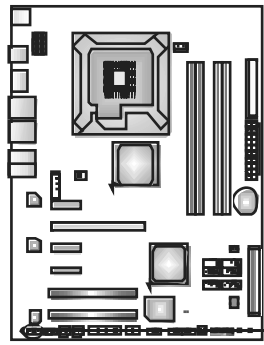
This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

JAUDIOF1: Front Panel Audio Header

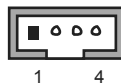
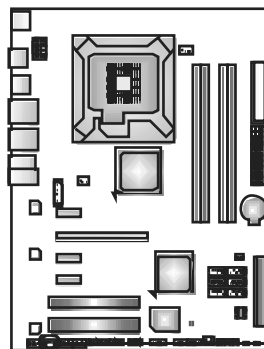
This header allows user to connect the front audio output cable with the PC front panel. It will disable the output on back panel audio connectors.



Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

JCDIN1: CD-ROM Audio-in Connector

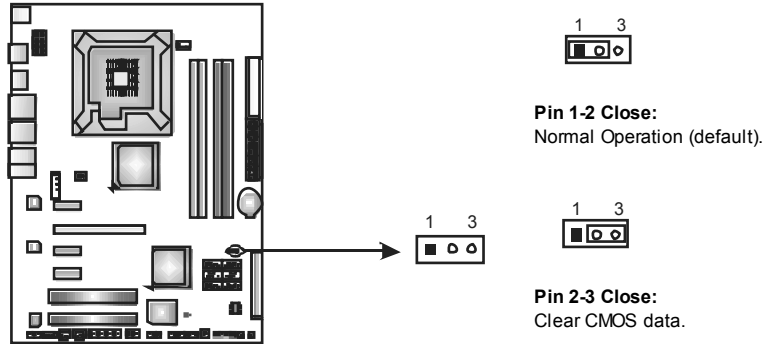
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



Pin	Assignment
1	Left Channel Input
2	Ground
3	Ground
4	Right Channel Input

JCMOS1: Clear CMOS Header

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.

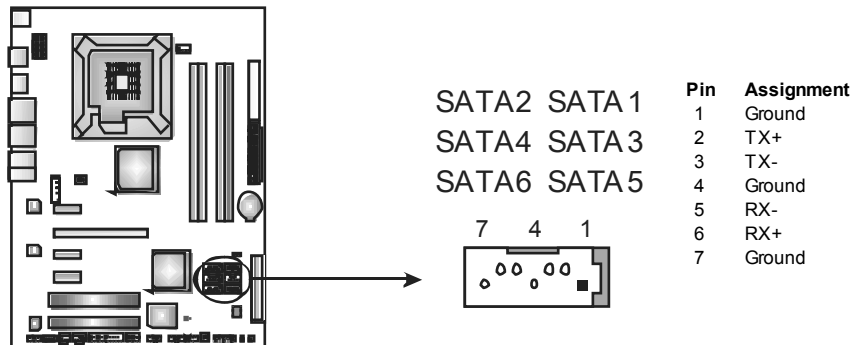


※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

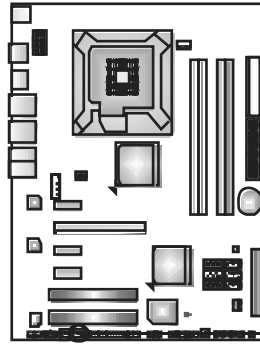
SATA1~SATA6: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 6 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.

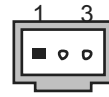


JSPDIF_OUT1: Digital Audio-out Connector

This connector allows user to connect the PCI bracket SPDIF output header.

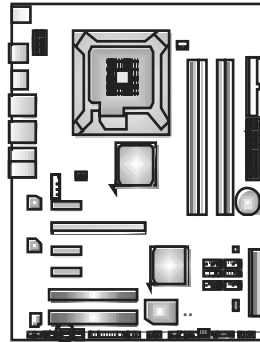


Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

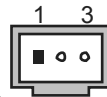


JSPDIF_IN1: Digital Audio-in Connector (Optional)

This connector allows user to connect the PCI bracket SPDIF input header.

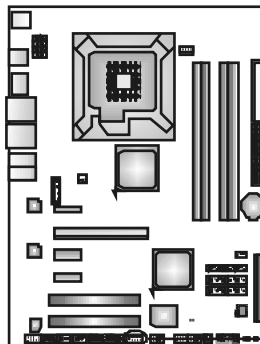


Pin	Assignment
1	+5V
2	SPDIF_IN
3	Ground

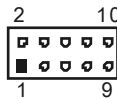


JCOM1: Serial port Connector

The motherboard has a Serial Port Connector for connecting RS-232 Port.

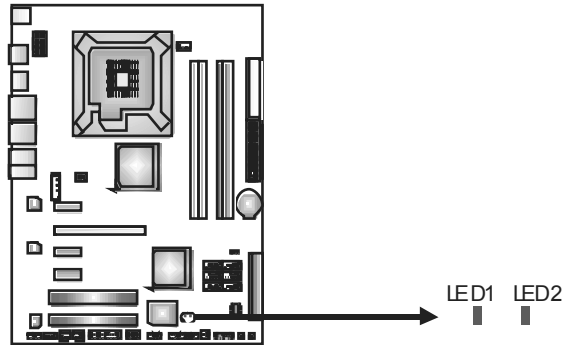


Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	Key



On-Board LED Indicators

There are 2 LED indicators on the motherboard to show system status.



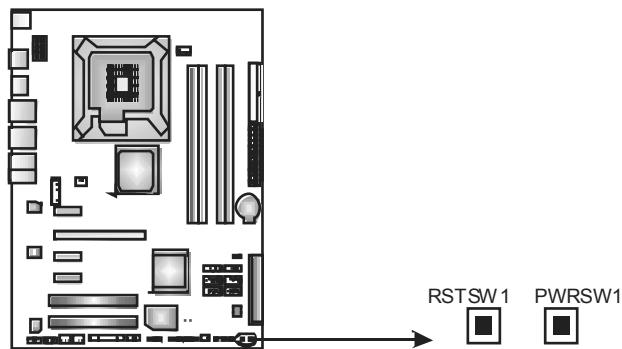
LED1 and LED2:

These 2 LED indicate system power on diagnostics.
Please refer to the table below for different messages:

LED1	LED2	Message
ON	ON	Normal
ON	OFF	Memory Error
OFF	ON	VGA Error
OFF	OFF	Abnormal: CPU / Chipset error.

On-Board Buttons

There are 2 on-board buttons.



PWRSW1:

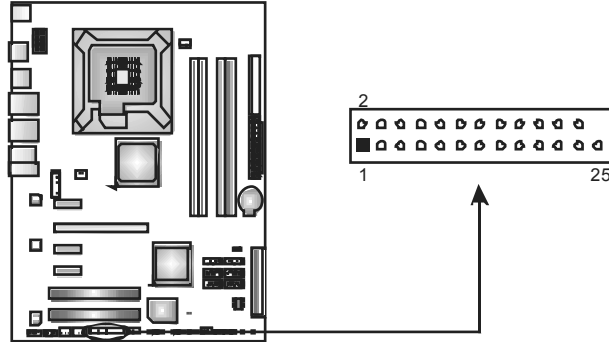
This is an on-board Power Switch button.

RSTSW1:

This is an on-board Reset button.

JPRNT1: Printer Port Connector

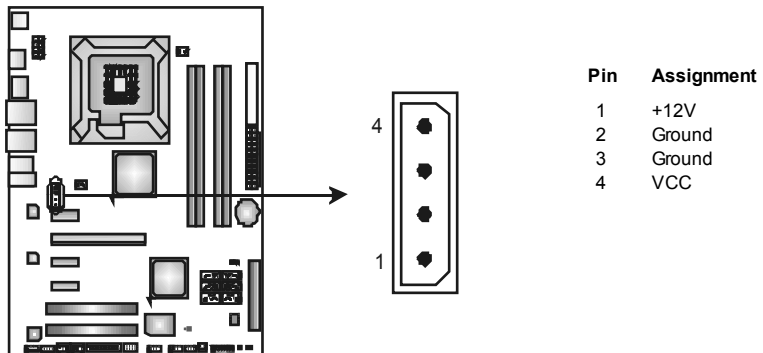
This header allows you to connector printer on the PC.



Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

J1: Auxiliary Power for Graphics

This connector is an auxiliary power connection for graphics cards. Exclusive power for the graphics card provides better graphics performance.



CHAPTER 4: RAID FUNCTIONS

4.1 OPERATION SYSTEM

- Supports Windows XP Home/Professional Edition, and Windows 2000 Professional.

4.2 RAID ARRAYS

RAID supports the following types of RAID arrays:

RAID 0: RAID 0 defines a disk striping scheme that improves disk read and write times for many applications.

RAID 1: RAID 1 defines techniques for mirroring data.

RAID 0+1: RAID 0+1 combines the techniques used in RAID 0 and RAID 1.

RAID 5: RAID 5 provides fault tolerance and better utilization of disk capacity.

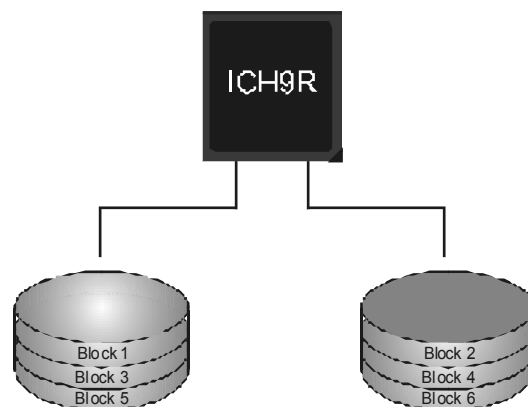
4.3 How RAID WORKS

RAID 0:

The controller “stripes” data across multiple drives in a RAID 0 array system. It breaks up a large file into smaller blocks and performs disk reads and writes across multiple drives in parallel. The size of each block is determined by the stripe size parameter, which you set during the creation of the RAID set based on the system environment. This technique reduces overall disk access time and offers high bandwidth.

Features and Benefits

- **Drives:** Minimum 1, and maximum is up to 6 or 8. Depending on the platform.
- **Uses:** Intended for non-critical data requiring high data throughput, or any environment that does not require fault tolerance.
- **Benefits:** provides increased data throughput, especially for large files. No capacity loss penalty for parity.
- **Drawbacks:** Does not deliver any fault tolerance. If any drive in the array fails, all data is lost.
- **Fault Tolerance:** No.



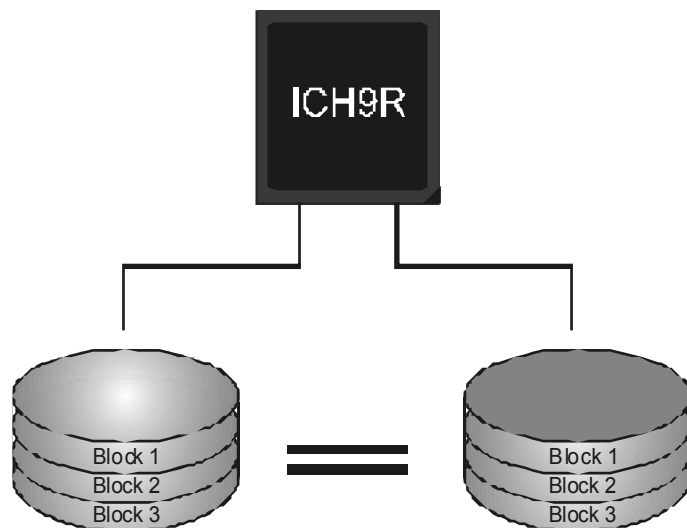
RAID 1:

Every read and write is actually carried out in parallel across 2 disk drives in a RAID 1 array system. The mirrored (backup) copy of the data can reside on the same disk or on a second redundant drive in the array. RAID 1 provides a hot-standby copy of data if the active volume or drive is corrupted or becomes unavailable because of a hardware failure.

RAID techniques can be applied for high-availability solutions, or as a form of automatic backup that eliminates tedious manual backups to more expensive and less reliable media.

Features and Benefits

- **Drives:** Minimum 2, and maximum is 2.
- **Uses:** RAID 1 is ideal for small databases or any other application that requires fault tolerance and minimal capacity.
- **Benefits:** Provides 100% data redundancy. Should one drive fail, the controller switches to the other drive.
- **Drawbacks:** Requires 2 drives for the storage space of one drive. Performance is impaired during drive rebuilds.
- **Fault Tolerance:** Yes.

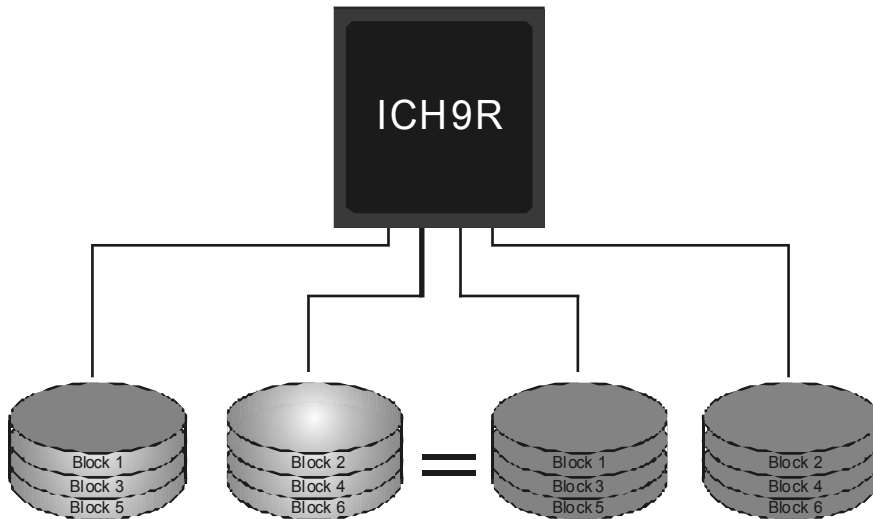


RAID 0+1:

RAID 0 drives can be mirrored using RAID 1 techniques. Resulting in a RAID 0+1 solution for improved performance plus resiliency.

Features and Benefits

- **Drives:** Minimum 4, and maximum is 6 or 8, depending on the platform.
- **Benefits:** Optimizes for both fault tolerance and performance, allowing for automatic redundancy. May be simultaneously used with other RAID levels in an array, and allows for spare disks.
- **Drawbacks:** Requires twice the available disk space for data redundancy, the same as RAID level 1.
- **Fault Tolerance:** Yes.

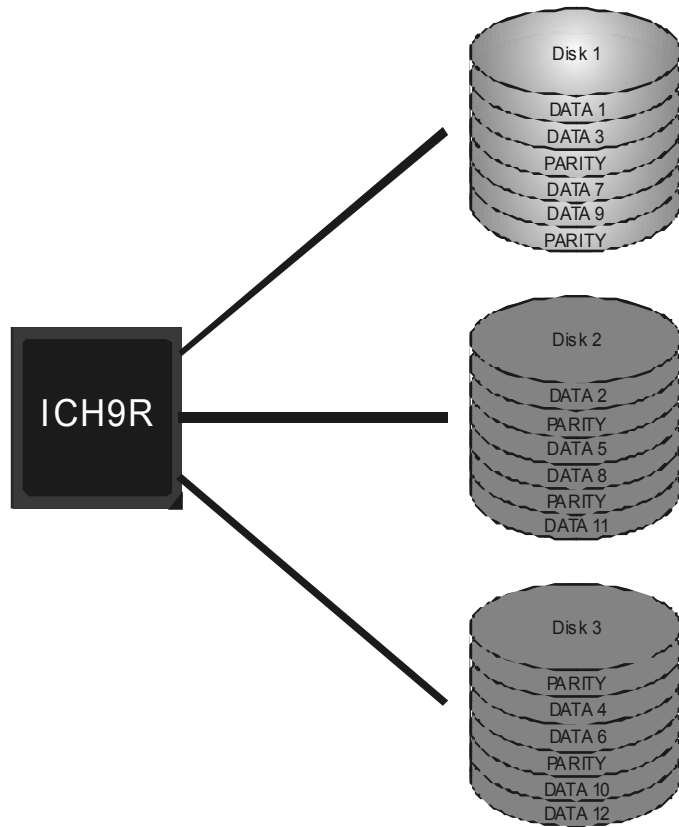


RAID 5:

RAID 5 stripes both data and parity information across three or more drives. It writes data and parity blocks across all the drives in the array. Fault tolerance is maintained by ensuring that the parity information for any given block of data is placed on a different drive from those used to store the data itself.

Features and Benefits

- **Drives:** Minimum 3.
- **Uses:** RAID 5 is recommended for transaction processing and general purpose service.
- **Benefits:** An ideal combination of good performance, good fault tolerance, and high capacity and storage efficiency.
- **Drawbacks:** Individual block data transfer rate same as a single disk. Write performance can be CPU intensive.
- **Fault Tolerance:** Yes.



CHAPTER 5: OVERCLOCK QUICK GUIDE

5.1 T-POWER INTRODUCTION

Biostar T-Power is a whole new utility that is designed for overclock users. Based on many precise tests, *Biostar Engineering Team* (BET) has developed this ultimate overclock engine to raise system performance. No matter whether under BIOS or Windows interface, *T-Power* is able to present the best system state according to users' overclock setting.

T-Power BIOS Features:

- Overclocking Navigator Engine (O.N.E.)
- CMOS Reloading Program (C.R.P.)
- Memory Integration Test (M.I.T., under Overclock Navigator Engine)
- Integrated Flash Program (I.F.P.)
- Self Recovery System (S.R.S)

T-Power Windows Feature:

- Hardware Monitor
- Overclock Engine
- System Information

!! WARNING !!

For better system performance, the BIOS firmware is being continuously updated. The BIOS information described below in this manual is for your reference only and the actual BIOS information and settings on board may be different from this manual. For further information of setting up the BIOS, please refer to the BIOS Manual in the Setup CD.

5.2 T-POWER BIOS FEATURE

A. Overclocking Navigator Engine (O.N.E.):

ONE provides two powerful overclocking engines: MOS and AOS for both Elite and Casual overclockers.



Manual Overclock System (M.O.S.)

MOS is designed for experienced overclock users.

It allows users to customize personal overclock settings.



Motherboard Manual

CPU Clock:

CPU Clock is directly in proportion to system performance. To maintain the system stability, CPU voltage needs to be increased also when raising CPU clock.

PCI-E Clock Select:

It helps to increase VGA card performance.

System Memory Frequency:

To get better system performance, sometimes downgrading the memory frequency is necessary when CPU frequency is adjusted over the upper limit.

DRAM Configuration:

Enter this function for more advanced DRAM settings.

CPU Voltage:

This function will increase CPU stability when overclocking. However, the CPU temperature will increase when CPU voltage is increased.

FSB Termination Voltage:

This function will increase chipset stability when overclocking.

(G)MCH Voltage:

This function lets you select the (G)MCH voltage.

Memory Voltage:

This function will increase memory stability when overclocking.

Automatic Overclock System (A.O.S.)

For beginners in overclock field, BET had developed an easy, fast, and powerful feature to increase the system performance, named A.O.S. Based on many tests and experiments, A.O.S. provides 3 ideal overclock configurations that are able to raise the system performance in a single step.



V6 Tech Engine:

This setting will raise about 10%~15% of whole system performance.



V8 Tech Engine:

This setting will raise about 15%~25% of whole system performance.



V12 Tech Engine:

This setting will raise about 25%~30% of whole system performance.



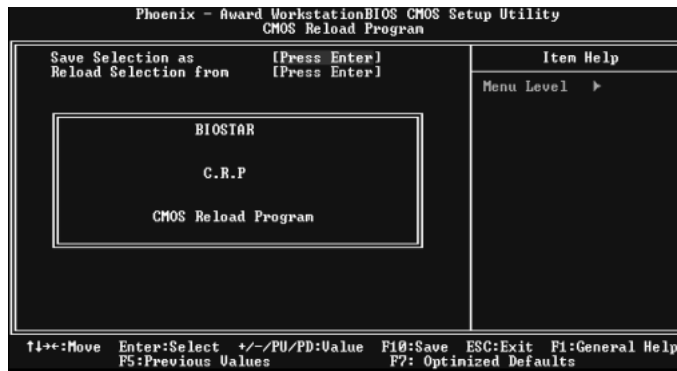
B. CMOS Reloading Program (C.R.P.):

It allows users to save different CMOS settings into BIOS-ROM.

Users are able to reload any saved CMOS setting for customizing system configurations.

Moreover, users are able to save an ideal overclock setting during overclock operation.

There are 50 sets of record addresses in total, and users are able to name the CMOS data according to personal preference.



C. Memory Integration Test (M.I.T.):

This function is under "Overclocking Navigator Engine" item. MIT allows users to test memory compatibilities, and no extra devices or software are needed.

Step 1:

The default setting under this item is "Disabled", the condition parameter should be changed to "Enable" to proceed this test.

```

Phoenix - AwardBIOS CMOS Setup Utility
OverClock Navigator Engine

OverClock Navigator [Normal Operation]
----- Automate Overclock System -----
x Auto Overclock System U6 -Tech Engine
----- Manual Overclock System -----
x CPU Clock 333
x PCI E Clock select Fixed 100
x PCI E clock 100
x System Memory Frequency Auto
Memory Frequency
x DRAM Configuration Press Enter
** CPU Spec Voltage ** 1.6000U
x CPU Voltage StartUp
x FSB Termination Voltage 1.25 U
x (GM)CH Voltage 1.25 U
x Memory Voltage 1.90 U
Integrated Memory Test [Disabled]

Menu Level  |>
OverClock function
1. [Normal Operation]
-No overclock
2. [Automate Overclock]
-Setting Overclock
function by Auto
Overclock System
item
3. [Manual Overclock]
-Setting Overclock
function by yourself

F5: Previous Values F7: Optimized Defaults

```

```

Phoenix - AwardBIOS CMOS Setup Utility
OverClock Navigator Engine

OverClock Navigator [Normal Operation]
----- Automate Overclock System -----
x Auto Overclock System U6 -Tech Engine
----- Manual Overclock System -----
x CPU Clock 333
x PCI E Clock select Fixed 100
x PCI E clock 100
x System Memory Frequency Auto
Memory Frequency
x DRAM Configuration Press Enter
** CPU Spec Voltage ** 1.6000U
x CPU Voltage StartUp
x FSB Termination Voltage 1.25 U
x (GM)CH Voltage 1.25 U
x Memory Voltage 1.90 U
Integrated Memory Test [Enabled]

Menu Level  |>
OverClock function
1. [Normal Operation]
-No overclock
2. [Automate Overclock]
-Setting Overclock
function by Auto
Overclock System
item
3. [Manual Overclock]
-Setting Overclock
function by yourself

F5: Previous Values F7: Optimized Defaults

```

Step 2:

Save and Exit from CMOS setup and reboot the system to activate this test. Run this test for 5 minutes (minimum) to ensure the memory stability.

Step 3:

When the process is done, change the setting back from "Enable" to "Disable" to complete the test.

D. Self Recovery System (S.R.S.):

This function can't be seen under T-Power BIOS setup; and is always on whenever the system starts up.

However, it can prevent system hang-up due to inappropriate overclock actions.

When the system hangs up, S.R.S. will automatically log in the default BIOS setting, and all overclock settings will be re-configured.

E. Integrated Flash Program (I.F.P.):

IFP is a safe and quick way to upgrade BIOS.

Step 1:

Go to Biostar website (<http://www.biostar.com.tw>) to download the latest BIOS file. Then, save the file into a floppy disk.

Step 2:

Insert the floppy disk and reboot the system to get into CMOS screen.

Step 3:

Select the item "Integrated Flash Program" to get the following frame and choose the BIOS file downloaded in step 1.



Step 4:

Press "Enter" key to start BIOS file loading, and BIOS updating will process automatically.

Step 5:

When the BIOS update is completed, press YES to the message "Flash done, Reset system", and the system will reboot automatically to finish the process.

Advise:
You can update the system BIOS by simply pressing "Enter" key for three times.

5.3 T-POWER WINDOWS FEATURE

1. Desktop Icon

After the T-Utility has been installed, a T-Utility icon will appear on the desktop, just like the icon shown below.



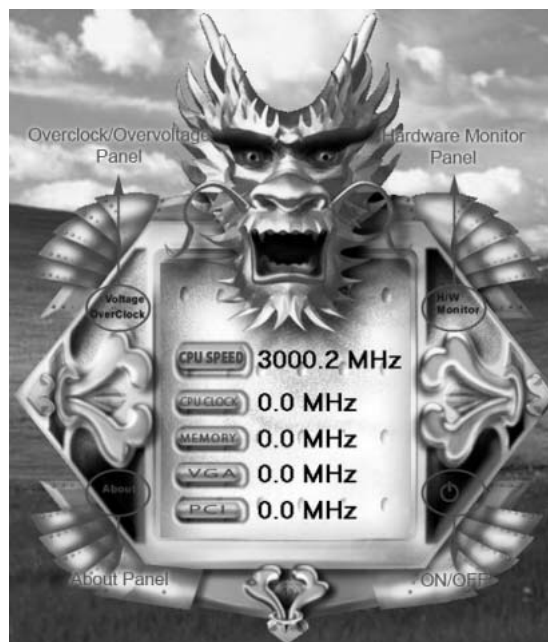
Now you can launch the T-Utility simply by double-clicking the desktop icon.

2. Main Panel

If you double-click the desktop icon, T-Utility will be launched. Please refer to the following figure; the utility's first window you will see is Main Panel.

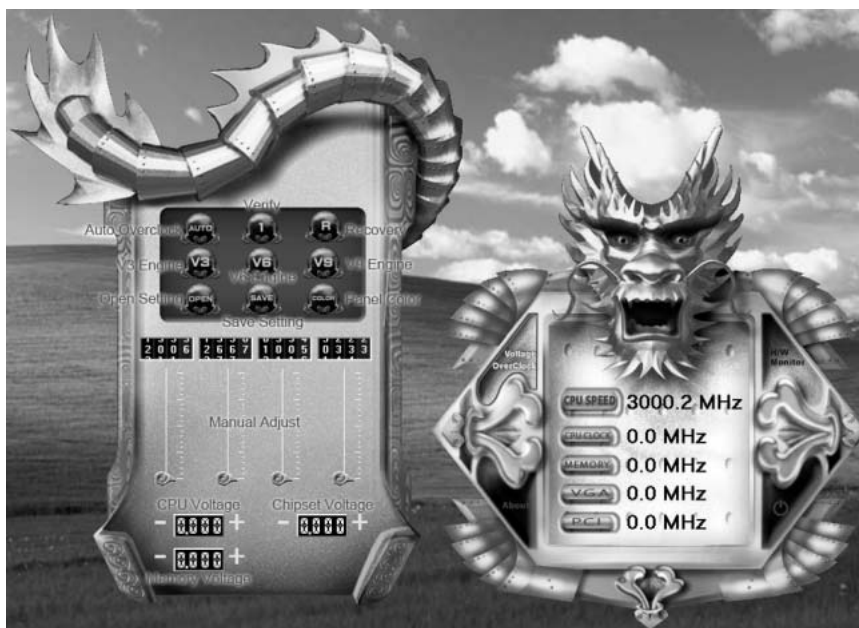
Main Panel contains features as follows:

- Display the CPU Speed, CPU external clock, Memory dock, VGA clock, and PCI dock information.
- Contains About, Overdock/Overvoltage, and Hardware Monitor Buttons for invoking respective panels. The On/Off button is for closing the program.



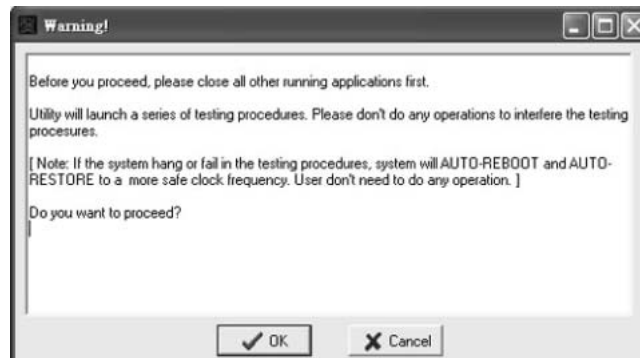
3. **Overclock/Overvoltage Panel**

Click the Overclock/Overvoltage button in the Main Panel, the button will be highlighted and the Overclock/Overvoltage Panel will show up as the following figure. As you can see, the Overclock Panel is on the upper side, and the Overvoltage Panel is on the lower side.



Overclock Panel contains these features:

- a. "Auto-Overdock":
 User can click this button and T-Utility will set the best and stable performance and frequency automatically. A warning dialog as below will show up to notify you that the system may become unstable, click on "OK" to continue.



Then T-Utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, launch the T-Utility again and the utility will load the previously verified best and stable frequency.

- b. "Verify":
 If you use the "Manual Adjust" bar to adjust the CPU frequency, then you can click this button and T-Utility will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fails, system will do a fail-safe rebooting. After reboot, the T-Utility will restore to the hardware default setting.

Warning:

Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let T-Utility automatically gets the best result for you.

- c. "V3 Engine"/"V6 Engine"/"V9 Engine":
 Provide user the ability to do real-time overdock adjustment.
- d. "Recovery":
 Click this button and the T-Utility will restore all values to the hardware default setting.

Motherboard Manual

- e. "Save / Open Setting":
Click Save button to save current setting to a file, and click Open button to load a previously saved setting.
- f. "Panel Color":
Click this button to change the color of the panel.

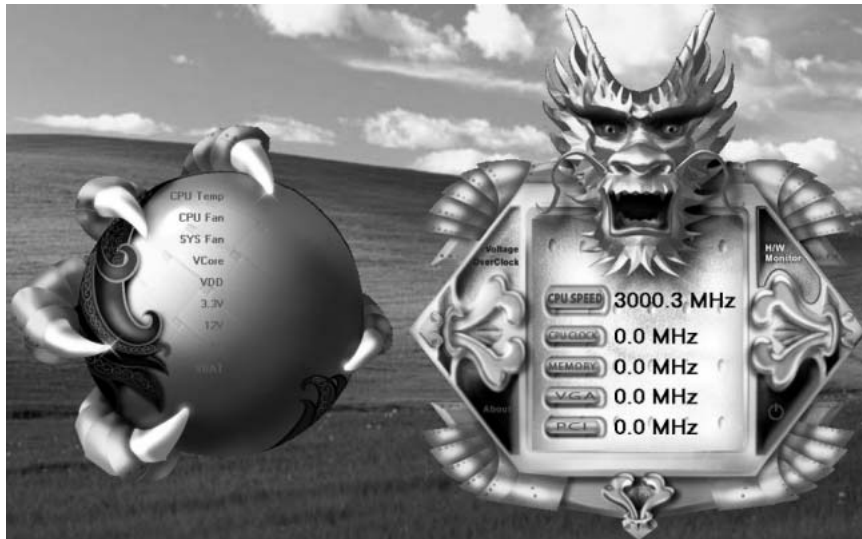
Overvoltage Panel contains these features:

- a. "CPU Voltage":
This function allows user to adjust CPU voltage. Click on "+" to increase or "-" to decrease the CPU voltage.
- b. "Memory Voltage":
This function allows user to adjust Memory voltage. Click on "+" to increase or "-" to decrease the Memory voltage.
- c. "Chipset Voltage":
This function allows user to adjust Chipset voltage. Click on "+" to increase or "-" to decrease the Chipset voltage.

4. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will show up as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



5. About Panel

Click the “about” button in Main Panel, the button will be highlighted and the About Panel will show up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the the version number of T-Utility.



Note:

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, T-Utility divides these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but it will not interfere with other panels' functions. This property can make T-Utility more robust.

CHAPTER 6: USEFUL HELP

6.1 DRIVER INSTALLATION NOTE

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

Note:

If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file **SETUP.EXE** under your optical drive.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

Note:

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://www.adobe.com/products/acrobat/readstep2.html>

6.2 AWARD BIOS BEEP CODE

Beep Sound	Meaning
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	CPU overheated System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

6.3 EXTRA INFORMATION

A. BIOS Update

After you fail to update BIOS or BIOS is invaded by virus, the Boot-Block function will help to restore BIOS. If the following message is shown after boot-up the system, it means the BIOS contents are corrupted.

```
BIOS ROM checksum error
Detecting floppy drive A media...
INSERT SYSTEM DISK AND PRESS ENTER
```

In this Case, please follow the procedure below to restore the BIOS:

1. Make a bootable floppy disk.
2. Download the Flash Utility "AWDFLASH.exe" from the Biostar website: www.biostar.com.tw
3. Confirm motherboard model and download the respectively BIOS from Biostar website.
4. Copy "AWDFLASH.exe" and respectively BIOS into floppy disk.
5. Insert the bootable disk into floppy drive and press Enter.
6. System will boot-up to DOS prompt.
7. Type "*Awdflash xxxx.bf/sn/py/r*" in DOS prompt.
(xxxx means BIOS name.)
8. System will update BIOS automatically and restart.
9. The BIOS has been recovered and will work properly.

B. CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
(See "Close CMOS Header: JCMOS1" section)
2. Wait for seconds.
3. Power on the system again.

6.4 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"> No power to the system at all. Power light don't illuminate, fan inside power supply does not turn on. Indicator light on key board does not turn on. 	<ol style="list-style-type: none"> Make sure power cable is securely plugged in. Replace cable. Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from optical drive.	<ol style="list-style-type: none"> Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	<ol style="list-style-type: none"> Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	<ol style="list-style-type: none"> Set master/slave jumpers correctly. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

APPENDENCIES: SPEC IN OTHER LANGUAGE

GERMAN

	Ver 5.x	Ver 6.x
CPU	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Prozessoren Unterstützt Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Prozessoren Unterstützt Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Chipsatz	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Super E/A	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Court-Schnittstelle Umgebungs-kontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller/-Überwachung "Smart Guardian"-Funktion von ITE	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Court-Schnittstelle Umgebungs-kontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller/-Überwachung "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR3 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 512MB / 1GB / 2GB DDR3. Max. 8GB Arbeitsspeicher Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 667 / 800 / 1066 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.	DDR3 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 512MB / 1GB / 2GB DDR3. Max. 8GB Arbeitsspeicher Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 667 / 800 / 1066 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
IDE	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller Daten-transfer-rate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0.	Integrierter Serial ATA-Controller Daten-transfer-rate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0.
LAN	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/Voll-duplex-Funktion	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/Voll-duplex-Funktion

TP35D3-A7 Deluxe

	Ver 5.x	Ver 6.x
HD	ALC888	ALC861VD
Audio-Unterstützung	Unterstützt High-Definition Audio 7.1-Kanal-Audioausgabe	Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe
Steckplätze	PCI-Steckplatz x2	PCI-Steckplatz x2
	PCI Express x16 Steckplatz x1	PCI Express x16 Steckplatz x1
	PCI Express x 1-Steckplatz x3	PCI Express x 1-Steckplatz x3
Onboard-Anschluss	Diskettenlaufwerkanschluss x1	Diskettenlaufwerkanschluss x1
	Druckeranschluss Anschluss x1	Druckeranschluss Anschluss x1
	IDE-Anschluss x1	IDE-Anschluss x1
	SATA-Anschluss x6	SATA-Anschluss x6
	Fronttafelanschluss x1	Fronttafelanschluss x1
	Front-Audioanschluss x1	Front-Audioanschluss x1
	CD-IN-Anschluss x1	CD-IN-Anschluss x1
	S/PDIF- Ausgangsanschluss x1	S/PDIF- Ausgangsanschluss x1
	S/PDIF Eingangsanschluss (optional) x1	S/PDIF Eingangsanschluss (optional) x1
	CPU-Lüfter-Sockel x1	CPU-Lüfter-Sockel x1
	System-Lüfter-Sockel x2	System-Lüfter-Sockel x2
	"CMOS löschen"-Sockel x1	"CMOS löschen"-Sockel x1
	USB-Anschluss x3	USB-Anschluss x3
	Serieller Anschluss x1	Serieller Anschluss x1
	Stromanschluss (24-polig) x1	Stromanschluss (24-polig) x1
Stromanschluss (8-polig) x1	Stromanschluss (8-polig) x1	
Stromanschluss (4-polig) x1	Stromanschluss (4-polig) x1	
Rückseiten-E/A	PS/2-Tastatur x1	PS/2-Tastatur x1
	PS/2-Maus x1	PS/2-Maus x1
	eSATA Anschluss (Marvell 88SE6121) x2	eSATA Anschluss (Marvell 88SE6121) x2
	LAN-Anschluss x2	LAN-Anschluss x2
	USB-Anschluss x6	USB-Anschluss x6
	Audioanschluss x6	Audioanschluss x3
Platinengröße	244 mm (B) X 305 mm (L)	244 mm (B) X 305 mm (L)
Sonderfunktionen	Unterstützt RAID 0 / 1 / 5 / 0+1	Unterstützt RAID 0 / 1 / 5 / 0+1
OS-Unterstützung	Windows 2000 / XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	Windows 2000 / XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRANCE

	Ver 5.x	Ver 6.x
UC	LGA 775 Processeurs Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Prend en charge les technologies Hyper-Threading / d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64 / de virtualisation	LGA 775 Processeurs Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Prend en charge les technologies Hyper-Threading / d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64 / de virtualisation
Bus frontal	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Chipset	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Super E/S	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur /moniteur de vitesse de ventilateur Fonction "Garden intelligent" de l'ITE	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur /moniteur de vitesse de ventilateur Fonction "Garden intelligent" de l'ITE
Mémoire principale	Fentes DDR3 DIMM x 4 Chaque DIMM prend en charge des DDR3 de 512Mo / 1Go / 2Go Capacité mémoire maximale de 8Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 667 / 800 / 1066 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge	Fentes DDR3 DIMM x 4 Chaque DIMM prend en charge des DDR3 de 512Mo / 1Go / 2Go Capacité mémoire maximale de 8Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 667 / 800 / 1066 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
IDE	Marvell 88SE6121 Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,	Marvell 88SE6121 Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 3.0Go/s. Conforme à la spécification SATA Version 2.0	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 3.0Go/s. Conforme à la spécification SATA Version 2.0
LAN	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability

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	Ver 5.x	Ver 6.x
Prise en charge audio HD	ALC888 Prise en charge de l'audio haute définition Sortie audio à 7.1 voies	ALC861VD Prise en charge de l'audio haute définition Sortie audio à 5.1 voies
Fentes	Fente PCI x2 Fente PCI Express x16 x1 Fente PCI Express x1 x3	Fente PCI x2 Fente PCI Express x16 x1 Fente PCI Express x1 x3
Connecteur embarqué	Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x6 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur d'entrée CD x1 Connecteur de sortie S/PDIF x1 Connecteur d'entrée S/PDIF(en option) x1 Embâse de ventilateur UC x1 Embâse de ventilateur système x2 Embâse d'effacement CMOS x1 Connecteur USB x3 Connecteur de Port série x1 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (8 broches) x1 Connecteur d'alimentation (4 broches) x1	Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x6 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur d'entrée CD x1 Connecteur de sortie S/PDIF x1 Connecteur d'entrée S/PDIF(en option) x1 Embâse de ventilateur UC x1 Embâse de ventilateur système x2 Embâse d'effacement CMOS x1 Connecteur USB x3 Connecteur de Port série x1 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (8 broches) x1 Connecteur d'alimentation (4 broches) x1
E/S du panneau arrière	Clavier PS/2 x1 Souris PS/2 x1 Port eSATA (Marvel 88SE6121) x2 Port LAN x2 Port USB x6 Fiche audio x6	Clavier PS/2 x1 Souris PS/2 x1 Port eSATA (Marvel 88SE6121) x2 Port LAN x2 Port USB x6 Fiche audio x3
Dimensions de la carte	244 mm (l) X 305 mm (H)	244 mm (l) X 305 mm (H)
Fonctionnalités spéciales	Prise en charge RAID 0 / 1 / 5 / 0+1	Prise en charge RAID 0 / 1 / 5 / 0+1
Support SE	Windows 2000 / XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	Windows 2000 / XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

	Ver 5.x	Ver 6.x
CPU	LGA 775 Processore Intel Core 2Duo / Core 2Quad / Celeron 4xx / Pentium 4 / Pentium D Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization	LGA 775 Processore Intel Core 2Duo / Core 2Quad / Celeron 4xx / Pentium 4 / Pentium D Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Chipset	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Super I/O	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller / Monitoraggio velocità ventolina Funzione "Smart Guardian" di ITE	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller / Monitoraggio velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR3 x 4 Ciascun DIMM supporta DDR3 512MB / 1GB / 2GB Capacità massima della memoria 8GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 667 / 800 / 1066 DIMM registrati e DIMM ECC non sono supportati	Alloggi DIMM DDR3 x 4 Ciascun DIMM supporta DDR3 512MB / 1GB / 2GB Capacità massima della memoria 8GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 667 / 800 / 1066 DIMM registrati e DIMM ECC non sono supportati
IDE	Marvell 88SE6121 Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4	Marvell 88SE6121 Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3.0Gb/s. Compatibile specifiche SATA Versione 2.0.	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3.0Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Marvell 88E8056 x2 Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex	Marvell 88E8056 x2 Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex

TP35D3-A7 Deluxe

	Ver 5.x	Ver 6.x
Supporto audio HD	ALC888 Supporto audio High-Definition (HD) Uscita audio 7.1 canali	ALC861VD Supporto audio High-Definition (HD) Uscita audio 5.1 canali
Alloggi	Alloggio PCI x2 Alloggio PCI Express x16 x1 Alloggio PCI Express x1 x3	Alloggio PCI x2 Alloggio PCI Express x16 x1 Alloggio PCI Express x1 x3
Connettori su scheda	Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x6 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore CD-in x1 Connettore output SPDIF x1 Connettore input SPDIF (optional) x1 Collettore ventolina CPU x1 Collettore ventolina sistema x2 Collettore cancellazione CMOS x1 Connettore USB x3 Connettore Porta seriale x1 Connettore alimentazione x1 (24 pin) Connettore alimentazione x1 (8 pin) Connettore alimentazione x1 (4 pin)	Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x6 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore CD-in x1 Connettore output SPDIF x1 Connettore input SPDIF (optional) x1 Collettore ventolina CPU x1 Collettore ventolina sistema x2 Collettore cancellazione CMOS x1 Connettore USB x3 Connettore Porta seriale x1 Connettore alimentazione x1 (24 pin) Connettore alimentazione x1 (8 pin) Connettore alimentazione x1 (4 pin)
I/O pannello posteriore	Tastiera PS/2 x1 Mouse PS/2 x1 Porta eSATA (Marvell 88SE6121) x2 Porta LAN x2 Porta USB x6 Connettore audio x6	Tastiera PS/2 x1 Mouse PS/2 x1 Porta eSATA (Marvell 88SE6121) x2 Porta LAN x2 Porta USB x6 Connettore audio x3
Dimensioni scheda	244 mm (larghezza) x 305 mm (altezza)	244 mm (larghezza) x 305 mm (altezza)
Caratteristiche speciali	Supporto RAID 0 / 1 / 5 / 0+1	Supporto RAID 0 / 1 / 5 / 0+1
Sistemi operativi supportati	Windows 2000 / XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	Windows 2000 / XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

	Ver 5.x	Ver 6.x
CPU	LGA 775 Procesador Intel Core2Duo / Core2Quad / Celeron 4xx/ Pentium 4 / Pentium D Admite Hyper-Threading / Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización	LGA 775 Procesador Intel Core2Duo / Core2Quad / Celeron 4xx/ Pentium 4 / Pentium D Admite Hyper-Threading / Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Conjunto de chips	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Súper E/S	ITE 8718F Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Controlador/monitor de velocidad de ventilador Función "Guarda inteligente" de ITE	ITE 8718F Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Controlador/monitor de velocidad de ventilador Función "Guarda inteligente" de ITE
Memoria principal	Ranuras DIMM DDR3 x 4 Cada DIMM admite DDR3 de 512MB / 1GB / 2GB Capacidad máxima de memoria de 8GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 667 / 800 / 1066 No admite DIMM registrados o DIMM compatibles con ECC	Ranuras DIMM DDR3 x 4 Cada DIMM admite DDR3 de 512MB / 1GB / 2GB Capacidad máxima de memoria de 8GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 667 / 800 / 1066 No admite DIMM registrados o DIMM compatibles con ECC
IDE	Marvell 88SE6121 Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4,	Marvell 88SE6121 Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4,
SATA	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3.0 Gb/s. Compatible con la versión SATA 2.0.	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3.0 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Marvell 88E8056 x2 Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex	Marvell 88E8056 x2 Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex

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	Ver 5.x		Ver 6.x	
Soporte de sonido HD	ALC888 Soporte de sonido de Alta Definición Salida de sonido de 7.1 canales		ALC861VD Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales	
Ranuras	Ranura PCI	X2	Ranura PCI	X2
	Ranura PCI Express x16	X1	Ranura PCI Express x16	X1
	Ranura PCI express x 1	X3	Ranura PCI express x 1	X3
Conectores en placa	Conector disco flexible	X1	Conector disco flexible	X1
	Conector Puerto de impresora	X1	Conector Puerto de impresora	X1
	Conector IDE	X1	Conector IDE	X1
	Conector SATA	X6	Conector SATA	X6
	Conector de panel frontal	X1	Conector de panel frontal	X1
	Conector de sonido frontal	X1	Conector de sonido frontal	X1
	Conector de entrada de CD	X1	Conector de entrada de CD	X1
	Conector de salida S/PDIF	X1	Conector de salida S/PDIF	X1
	Conector de entrada S/PDIF (opcional) x1		Conector de entrada S/PDIF (opcional) x1	
	Cabecera de ventilador de CPU	X1	Cabecera de ventilador de CPU	X1
	Cabecera de ventilador de sistema	X2	Cabecera de ventilador de sistema	X2
	Cabecera de borrado de CMOS	X1	Cabecera de borrado de CMOS	X1
	Conector USB	X3	Conector USB	X3
	Conector Puerto serie	X1	Conector Puerto serie	X1
Conector de alimentación (24 patillas)	X1	Conector de alimentación (24 patillas)	X1	
Conector de alimentación (8 patillas)	X1	Conector de alimentación (8 patillas)	X1	
Conector de alimentación (4 patillas)	X1	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	Teclado PS/2	X1
	Ratón PS/2	X1	Ratón PS/2	X1
	Puerto eSATA (Marvel 88SE6121)	X2	Puerto eSATA (Marvel 88SE6121)	X2
	Puerto de red local	X2	Puerto de red local	X2
	Puerto USB	X6	Puerto USB	X6
	Conector de sonido	X6	Conector de sonido	X3
Tamaño de la placa	244 mm. (A) X 305 Mm. (H)		244 mm. (A) X 305 Mm. (H)	
Funciones especiales	Admite RAID 0 / 1 / 5 / 0+1		Admite RAID 0 / 1 / 5 / 0+1	
Soporte de sistema operativo	Windows 2000 / XP / VISTA		Windows 2000 / XP / VISTA	
	Bicstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		Bicstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.	

PORTUGUESE

	Ver 5.x	Ver 6.x
CPU	LGA 775 Processador Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Suporta as tecnologias Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization	LGA 775 Processador Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Suporta as tecnologias Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Chipset	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Especificação do Super I/O	ITE 8718F Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Controlador/Monitor da velocidade da ventoinha Função "Smart Guardian" da ITE	ITE 8718F Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Controlador/Monitor da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR3 x 4 Cada módulo DIMM suporta uma memória DDR3 de 512 MB / 1GB / 2GB Capacidade máxima de memória: 8 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 667 / 800 / 1066 Os módulos DIMM registados e os DIMM ECC não são suportados	Ranuras DIMM DDR3 x 4 Cada módulo DIMM suporta uma memória DDR3 de 512 MB / 1GB / 2GB Capacidade máxima de memória: 8 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 667 / 800 / 1066 Os módulos DIMM registados e os DIMM ECC não são suportados
IDE	Marvell 88SE6121 Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,	Marvell 88SE6121 Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,
SATA	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0.	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Marvell 88E8056 x2 Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex	Marvell 88E8056 x2 Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex

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	Ver 5.x	Ver 6.x
Suporte para áudio de alta definição	ALC888 Suporta a especificação High-Definition Audio Saída de áudio de 7.1 canais	ALC861VD Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais
Ranhuras	Ranhura PCI x2 Ranhura PCI Express x16 x1 Ranhura PCI Express x 1 x3	Ranhura PCI x2 Ranhura PCI Express x16 x1 Ranhura PCI Express x 1 x3
Conectores na placa	Conector da unidade de disquetes x1 Conector da para impressora x1 Conector IDE x1 Conector SATA x6 Conector do painel frontal x1 Conector de áudio frontal x1 Conector para entrada de CDs x1 Conector de saída S/PDIF x1 Conector de entrada S/PDIF(opcional) x1 Conector da verticinha da CPU x1 Conector da verticinha do sistema x2 Conector para limpeza do CMOS x1 Conector USB x3 Conector da Porta série x1 Conector de alimentação (24 pinos) x1 Conector de alimentação (8 pinos) x1 Conector de alimentação (4 pinos) x1	Conector da unidade de disquetes x1 Conector da para impressora x1 Conector IDE x1 Conector SATA x6 Conector do painel frontal x1 Conector de áudio frontal x1 Conector para entrada de CDs x1 Conector de saída S/PDIF x1 Conector de entrada S/PDIF(opcional) x1 Conector da verticinha da CPU x1 Conector da verticinha do sistema x2 Conector para limpeza do CMOS x1 Conector USB x3 Conector da Porta série x1 Conector de alimentação (24 pinos) x1 Conector de alimentação (8 pinos) x1 Conector de alimentação (4 pinos) x1
Entradas/Saídas no painel traseiro	Teclado PS/2 x1 Rato PS/2 x1 Porta eSATA (Marvel 88SE6121) x2 Porta LAN x2 Porta USB x6 Tomada de áudio x6	Teclado PS/2 x1 Rato PS/2 x1 Porta eSATA (Marvel 88SE6121) x2 Porta LAN x2 Porta USB x6 Tomada de áudio x3
Tamanho da placa	244 mm (L) X 305 mm (A)	244 mm (L) X 305 mm (A)
Características especiais	Suporta as funções RAID 0 / 1 / 5 / 0+1	Suporta as funções RAID 0 / 1 / 5 / 0+1
Sistemas operativos suportados	Windows 2000 / XP / VISTA A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	Windows 2000 / XP / VISTA A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.

POLISH

	Ver 5.x	Ver 6.x
Procesor	LGA 775 Procesor Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Obsługa Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	LGA 775 Procesor Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Obsługa Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
Chipset	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Pamięć główna	Gniazda DDR3 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 512MB / 1GB / 2GB Maks. wielkość pamięci 8GB Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 667 / 800 / 1066 Brak obsługi Registered DIMM oraz ECC DIMM	Gniazda DDR3 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 512MB / 1GB / 2GB Maks. wielkość pamięci 8GB Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 667 / 800 / 1066 Brak obsługi Registered DIMM oraz ECC DIMM
SuperI/O	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Kontroler/Monitor prędkości wentylatora Funkcja ITE "Smart Guardian"	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Kontroler/Monitor prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA Transfer danych do 3.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.	Zintegrowany kontroler Serial ATA Transfer danych do 3.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie półowicznego / pełnego dupleksu	Marvell 88E8056 x2 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie półowicznego / pełnego dupleksu

TP35D3-A7 Deluxe

	Ver 5.x		Ver 6.x	
Obsługa audio HD	ALC888 Obsługa High-Definition Audio 7.1 kanałowe wyjście audio		ALC861VD Obsługa High-Definition Audio 5.1 kanałowe wyjście audio	
Gniazda	Gniazdo PCI	x2	Gniazdo PCI	x2
	Gniazdo PCI Express x16	x1	Gniazdo PCI Express x16	x1
	Gniazdo PCI Express x 1	x3	Gniazdo PCI Express x 1	x3
Złącza wbudowane	Złącze napędu dyskiętek	x1	Złącze napędu dyskiętek	x1
	Złącze Port drukarki	x1	Złącze Port drukarki	x1
	Złącze IDE	x1	Złącze IDE	x1
	Złącze SATA	x6	Złącze SATA	x6
	Złącze panela przedniego	x1	Złącze panela przedniego	x1
	Przednie złącze audio	x1	Przednie złącze audio	x1
	Złącze wejścia CD	x1	Złącze wejścia CD	x1
	Złącze wyjścia S/PDIF	x1	Złącze wyjścia S/PDIF	x1
	Złącze wejścia S/PDIF (opcja)	x1	Złącze wejścia S/PDIF (opcja)	x1
	Złącze główkowe wentylatora procesora	x1	Złącze główkowe wentylatora procesora	x1
	Złącze główkowe wentylatora systemowego	x2	Złącze główkowe wentylatora systemowego	x2
	Złącze główkowe kasowania CMOS	x1	Złącze główkowe kasowania CMOS	x1
	Złącze USB	x3	Złącze USB	x3
	Złącze Port szeregowy	x1	Złącze Port szeregowy	x1
	Złącze zasilania (24 pinowe)	x1	Złącze zasilania (24 pinowe)	x1
	Złącze zasilania (8 pinowe)	x1	Złącze zasilania (8 pinowe)	x1
	Złącze zasilania (4 pinowe)	x1	Złącze zasilania (4 pinowe)	x1
Back Panel I/O	Klawiatura PS/2	x1	Klawiatura PS/2	x1
	Mysz PS/2	x1	Mysz PS/2	x1
	Port eSATA (Marvell 88SE6121)	x2	Port eSATA (Marvell 88SE6121)	x2
	Port LAN	x2	Port LAN	x2
	Port USB	x6	Port USB	x6
	Gniazdo audio	x6	Gniazdo audio	x3
Wymiary płyty	244 mm (S) X 305 mm (W)		244 mm (S) X 305 mm (W)	
Funkcje specjalne	Obsługa RAID 0 / 1 / 5 / 0+1		Obsługa RAID 0 / 1 / 5 / 0+1	
Obsługa systemu operacyjnego	Windows 2000 / XP / VISTA BioStar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.		Windows 2000 / XP / VISTA BioStar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	

RUSSIAN

	Ver 5.x	Ver 6.x
CPU (центральный процессор)	LGA 775 Процессор Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Поддержка технологий Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация	LGA 775 Процессор Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D Поддержка технологий Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация
FSB	800 / 1066 / 1333 МГц	800 / 1066 / 1333 МГц
Набор микросхем	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
Основная память	Слоты DDR3 DIMM x 4 Каждый модуль DIMM поддерживает 512МБ / 1ГБ / 2ГБ DDR3 Максимальная ёмкость памяти 8ГБ Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 667 / 800 / 1066 Не поддерживает зарегистрированные модули DIMM and ECC DIMM	Слоты DDR3 DIMM x 4 Каждый модуль DIMM поддерживает 512МБ / 1ГБ / 2ГБ DDR3 Максимальная ёмкость памяти 8ГБ Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 667 / 800 / 1066 Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости вентилятора/ монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости вентилятора/ монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)
IDE	Marvell 88SE6121 Режим "хвояина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,	Marvell 88SE6121 Режим "хвояина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления АТА скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0.	Встроенное последовательное устройство управления АТА скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0.
Локальная сеть	Marvell 88E8056 x2 Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность	Marvell 88E8056 x2 Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность

TP35D3-A7 Deluxe

	Ver 5.x		Ver 6.x	
Звуковая поддержка жесткого диска	ALC888 Звуковая поддержка High-Definition 7.1 канальный звуковой выход		ALC861VD Звуковая поддержка High-Definition 5.1 канальный звуковой выход	
Слоты	Слот PCI	x2	Слот PCI	x2
	Слот PCI Express x16	x1	Слот PCI Express x16	x1
	Слот PCI Express x 1	x3	Слот PCI Express x 1	x3
Встроенный разъем	Разъем НГМД	x1	Разъем НГМД	x1
	Разъем Порт подключения принтера	x1	Разъем Порт подключения принтера	x1
	Разъем IDE	x1	Разъем IDE	x1
	Разъем SATA	x6	Разъем SATA	x6
	Разъем на лицевой панели	x1	Разъем на лицевой панели	x1
	Входной звуковой разъем	x1	Входной звуковой разъем	x1
	Разъем ввода для CD	x1	Разъем ввода для CD	x1
	Разъем вывода для S/PDIF	x1	Разъем вывода для S/PDIF	x1
	Разъем ввода для S/PDIF (дополнительно) x1		Разъем ввода для S/PDIF (дополнительно) x1	
	Контактирующее приспособление вентилятора центрального процессора x1		Контактирующее приспособление вентилятора центрального процессора x1	
	Контактирующее приспособление вентилятора системы	x2	Контактирующее приспособление вентилятора системы	x2
	Открытое контактирующее приспособление CMOS	x1	Открытое контактирующее приспособление CMOS	x1
	USB-разъем	x3	USB-разъем	x3
	Разъем Последовательный порт	x1	Разъем Последовательный порт	x1
	Разъем питания (24 вывод)	x1	Разъем питания (24 вывод)	x1
	Разъем питания (8 вывод)	x1	Разъем питания (8 вывод)	x1
	Разъем питания (4 вывод)	x1	Разъем питания (4 вывод)	x1
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	Клавиатура PS/2	x1
	Мышь PS/2	x1	Мышь PS/2	x1
	eSATA порт (Marvell 88SE6121)	x2	eSATA порт (Marvell 88SE6121)	x2
	Порт LAN	x2	Порт LAN	x2
	USB-порт	x6	USB-порт	x6
	Гнезд для подключения наушников	x6	Гнезд для подключения наушников	x3
Размер панели	244 мм (Ш) X 305 мм (В)		244 мм (Ш) X 305 мм (В)	
Специальные технические характеристики	Поддержка RAID 0/ 1 / 5 / 0+1		Поддержка RAID 0/ 1 / 5 / 0+1	
Поддержка OS	Windows 2000 / XP / VISTA Bicstar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		Windows 2000 / XP / VISTA Bicstar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	

ARABIC

Ver 6.x	Ver 5.x	
LGA 775 معالجات Intel Core2Duo / Core2Quad / Celeron 4xx بتردد يصل إلى Pentium 4 / Pentium D تدعم تقنيات Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	LGA 775 معالجات Intel Core2Duo / Core2Quad / Celeron 4xx بتردد يصل إلى Pentium 4 / Pentium D تدعم تقنيات Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	وحدة المعالجة المركزية
ميجا هرتز 800 / 1066 / 1333 تردد	ميجا هرتز 800 / 1066 / 1333 تردد	النقل الأممي الجانبي
Intel P35 Intel ICH9R	Intel P35 Intel ICH9R	مجموعة الشرائح
عدد 4 فتحة DDR3 DIMM ميجا بايت 512 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل فتحة 2 و 1 جيجا بايت سعة ذاكرة قصوى 8 جيجا بايت مزوجة لفتحة DDR3 وحدة ذاكرة سعات 1066 / 667 / 800 ميجا بايت DDR3 تدعم الذاكرة من نوع ECC وتك التي لا تتوافق مع DIMM لا تدعم فائق الذاكرة	عدد 4 فتحة DDR3 DIMM ميجا بايت 512 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل فتحة 2 و 1 جيجا بايت سعة ذاكرة قصوى 8 جيجا بايت مزوجة لفتحة DDR3 وحدة ذاكرة سعات 1066 / 667 / 800 ميجا بايت DDR3 تدعم الذاكرة من نوع ECC وتك التي لا تتوافق مع DIMM لا تدعم فائق الذاكرة	الذاكرة الرئيسية
ITE 8718F الأكثر استخداماً Super I/O توفر وظيفة Low Pin Count Interface تدعم تقنية وسائل لتحكم في البيئة مراقب لمعومة حلقة الأجهزة مراقب في سعة لمروحة ITE من "Smart Guardian" وظيفة	ITE 8718F الأكثر استخداماً Super I/O توفر وظيفة Low Pin Count Interface تدعم تقنية وسائل لتحكم في البيئة مراقب لمعومة حلقة الأجهزة مراقب في سعة لمروحة ITE من "Smart Guardian" وظيفة	Super I/O
متكامل IDE متحكم Marvell 88SE6121 وضع رئيسي Ultra DMA 33 / 66 / 100 / 133 نقل ببقية PIO Mode 0~4 دعم وضع	متكامل IDE متحكم Marvell 88SE6121 وضع رئيسي Ultra DMA 33 / 66 / 100 / 133 نقل ببقية PIO Mode 0~4 دعم وضع	منفذ IDE
متكامل Serial ATA متحكم جيجابت/ثانية 3.0 نقل لبيانات بسعات تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات	متكامل Serial ATA متحكم جيجابت/ثانية 3.0 نقل لبيانات بسعات تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات	SATA
Marvell 88E8056 x2 تقويض قطني 100/10 ميجا بايت / ثلثية و 1 جيجا بايت / ثانية إمكانية النقل لمزيج الكامل/القصفي	Marvell 88E8056 x2 تقويض قطني 100/10 ميجا بايت / ثلثية و 1 جيجا بايت / ثانية إمكانية النقل لمزيج الكامل/القصفي	شبكة داخلية

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Ver 6.x	Ver 5.x	
ALC861VD Intel دعم تقنية الصوت علي تعريف من 5.1 قنوات لخرج الصوت	ALC888 تدعم تقنية الصوت علي تعريف من 7.1 قنوات لخرج الصوت	دعم الصوت علي التعريف
عدد 2 فتحة PCI عدد 1 فتحة PCI Expressx16 عدد 3 فتحة PCI Express x1	عدد 2 فتحة PCI عدد 1 فتحة PCI Expressx16 عدد 3 فتحة PCI Express x1	الفتحات
عدد 1 مقعد محرك أقراص مرنة عدد 1 مقعد طابعة عدد 1 مقعد IDE عدد 6 مقعد SATA عدد 1 مقعد اللوحة الأممية عدد 1 مقعد الصوت الأممي عدد 1 مقعد CD-IN عدد 1 مقعد خرج S/PDIF عدد 1 مقعد دخل (اختياري) S/PDIF عدد 1 وصلة مروحة وحدة المعالجة المركزية عدد 2 وصلة مروحة للظلم عدد 1 وصلة مسح CMOS عدد 3 مقعد USB عدد 1 مقعد تسلسلي عدد 1 مقعد توصيل الطاقة (24دوس) عدد 1 مقعد توصيل الطاقة (8دوس) عدد 1 مقعد توصيل الطاقة (4دبليس)	عدد 1 مقعد محرك أقراص مرنة عدد 1 مقعد طابعة عدد 1 مقعد IDE عدد 6 مقعد SATA عدد 1 مقعد اللوحة الأممية عدد 1 مقعد الصوت الأممي عدد 1 مقعد CD-IN عدد 1 مقعد خرج S/PDIF عدد 1 مقعد دخل (اختياري) S/PDIF عدد 1 وصلة مروحة وحدة المعالجة المركزية عدد 2 وصلة مروحة للظلم عدد 1 وصلة مسح CMOS عدد 3 مقعد USB عدد 1 مقعد تسلسلي عدد 1 مقعد توصيل الطاقة (24دوس) عدد 1 مقعد توصيل الطاقة (8دوس) عدد 1 مقعد توصيل الطاقة (4دبليس)	المنافذ على سطح اللوحة
عدد 1 لوحة مفاتيح PS/2 عدد 1 مؤس PS/2 عدد 2 مقعد SATA (Marvell 88SE6121) عدد 2 مقعد شبكة لتصل محلية عدد 6 منافذ USB عدد 3 مقيس صوت	عدد 1 لوحة مفاتيح PS/2 عدد 1 مؤس PS/2 عدد 2 مقعد SATA (Marvell 88SE6121) عدد 2 مقعد شبكة لتصل محلية عدد 6 منافذ USB عدد 6 مقيس صوت	منافذ دخل/خروج اللوحة الخلفية
244 مم (عرض) X 305 مم (ارتفاع)	244 مم (عرض) X 305 مم (ارتفاع)	حجم اللوحة
RAID 0 / 1 / 5 / 0+1 دعم تقنية	RAID 0 / 1 / 5 / 0+1 دعم تقنية	مزايا خاصة
Windows 2000 / XP / VISTA بجها في اضافة أو إزالة لاعم لأي نظام تشغيل باخطار Biostar تحتفظ أو بنون إخطار.	Windows 2000 / XP / VISTA بجها في اضافة أو إزالة لاعم لأي نظام تشغيل باخطار Biostar تحتفظ أو بنون إخطار.	دعم أنظمة لتشغيل

JAPANESE

	Ver 5.x	Ver 6.x
CPU	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D processor Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technologyをサポート します	LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D processor Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technologyをサポート します
FSB	800 / 1066 / 1333 MHz	800 / 1066 / 1333 MHz
チップセット	Intel P35 Intel ICH9R	Intel P35 Intel ICH9R
メインメモリ	DDR3 DIMMスロット x 4 各DIMMは 512MB / 1GB / 2GB DDR3をサポート 最大メモリ容量8GB デュアルチャンネルモードDDR3メモリモジュール DDR3 667 / 800 / 1066をサポート 登録済みDIMMとECC DIMMはサポートされません	DDR3 DIMMスロット x 4 各DIMMは 512MB / 1GB / 2GB DDR3をサポート 最大メモリ容量8GB デュアルチャンネルモードDDR3メモリモジュール DDR3 667 / 800 / 1066をサポート 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8718F もっとも一般に使用されるレガシーSuper I/O機能を 採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能	ITE 8718F もっとも一般に使用されるレガシーSuper I/O機能を 採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能
IDE	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、	Marvell 88SE6121 Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、
SATA	統合シリアルATAコントローラ 最高3.0 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。	統合シリアルATAコントローラ 最高3.0 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。
LAN	Marvell 88E8056 x2 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能	Marvell 88E8056 x2 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能

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	Ver 5.x	Ver 6.x
HDオーディオのサポート	ALC888 ハイデフィニションオーディオのサポート 7.1チャンネルオーディオアウト	ALC861VD ハイデフィニションオーディオのサポート 5.1チャンネルオーディオアウト
スロット	PCIスロット x2 PCI Express x16スロット x1 PCI Express x1スロット x3	PCIスロット x2 PCI Express x16スロット x1 PCI Express x1スロット x3
オンボードコネクタ	フロッピーコネクタ x1 プリンタポートコネクタ x1 IDEコネクタ x1 SATAコネクタ x6 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CDインコネクタ x1 S/PDIFアウトコネクタ x1 S/PDIFインコネクタ(オプション) x1 CPUファンヘッダ x1 システムファンヘッダ x2 CMOS クリアヘッダ x1 USBコネクタ x3 シリアルポートコネクタ x1 電源コネクタ(24ピン) x1 電源コネクタ(8ピン) x1 電源コネクタ(4ピン) x1	フロッピーコネクタ x1 プリンタポートコネクタ x1 IDEコネクタ x1 SATAコネクタ x6 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CDインコネクタ x1 S/PDIFアウトコネクタ x1 S/PDIFインコネクタ(オプション) x1 CPUファンヘッダ x1 システムファンヘッダ x2 CMOS クリアヘッダ x1 USBコネクタ x3 シリアルポートコネクタ x1 電源コネクタ(24ピン) x1 電源コネクタ(8ピン) x1 電源コネクタ(4ピン) x1
背面パネル I/O	PS/2キーボード x1 PS/2マウス x1 eSATAポート(Marvell 88SE6121) x2 LANポート x2 USBポート x6 オーディオジャック x6	PS/2キーボード x1 PS/2マウス x1 eSATAポート(Marvell 88SE6121) x2 LANポート x2 USBポート x6 オーディオジャック x3
ボードサイズ	244 mm (幅) X 305 mm (高さ)	244 mm (幅) X 305 mm (高さ)
特殊機能	RAID 0 / 1 / 5 / 0+1 のサポート	RAID 0 / 1 / 5 / 0+1 のサポート
OSサポート	Windows 2000 / XP / VISTA Bicstarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。	Windows 2000 / XP / VISTA Bicstarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。

2007/05/14

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BIOS Setup

Introduction

The purpose of this manual is to describe the settings in the Phoenix-Award™ BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to CMOS RAM. The power of CMOS RAM is supplied by a battery so that it retains the Setup information when the power is turned off.

Basic Input-Output System (BIOS) determines what a computer can do without accessing programs from a disk. This system controls most of the input and output devices such as keyboard, mouse, serial ports and disk drives. BIOS activates at the first stage of the booting process, loading and executing the operating system. Some additional features, such as virus and password protection or chipset fine-tuning options are also included in BIOS.

The rest of this manual will to guide you through the options and settings in BIOS Setup.

Plug and Play Support

This PHOENIX-AWARD BIOS supports the Plug and Play Version 1.0A specification and ESCD (Extended System Configuration Data) write.

EPA Green PC Support

This PHOENIX-AWARD BIOS supports Version 1.03 of the EPA Green PC specification.

APM Support

This PHOENIX-AWARD BIOS supports Version 1.1&1.2 of the Advanced Power Management (APM) specification. Power management features are implemented via the System Management Interrupt (SMI). Sleep and Suspend power management modes are supported. Power to the hard disk drives and video monitors can also be managed by this PHOENIX-AWARD BIOS.

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ACPI Support

Phoenix-Award ACPI BIOS support Version 1.0b of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

PCI Bus Support

This PHOENIX-AWARD BIOS also supports Version 3.0 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

DRAM Support

DDR SDRAM (Double Data Rate Synchronous DRAM) is supported.

Supported CPUs

This PHOENIX-AWARD BIOS supports the Intel CPU.

Using Setup

Use the arrow keys to highlight items in most of the place, press <Enter> to select, use the <PgUp> and <PgDn> keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program by using the keyboard.

Keystroke	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left (menu bar)
Right arrow	Move to the item on the right (menu bar)
Move Enter	Move to the item you desired
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
+ Key	Increase the numeric value or make changes
- Key	Decrease the numeric value or make changes
Esc key	Main Menu – Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu – Exit Current page and return to Main Menu
F1 key	General help on Setup navigation keys
F5 key	Load previous values from CMOS
F7 key	Load the optimized defaults
F10 key	Save all the CMOS changes and exit

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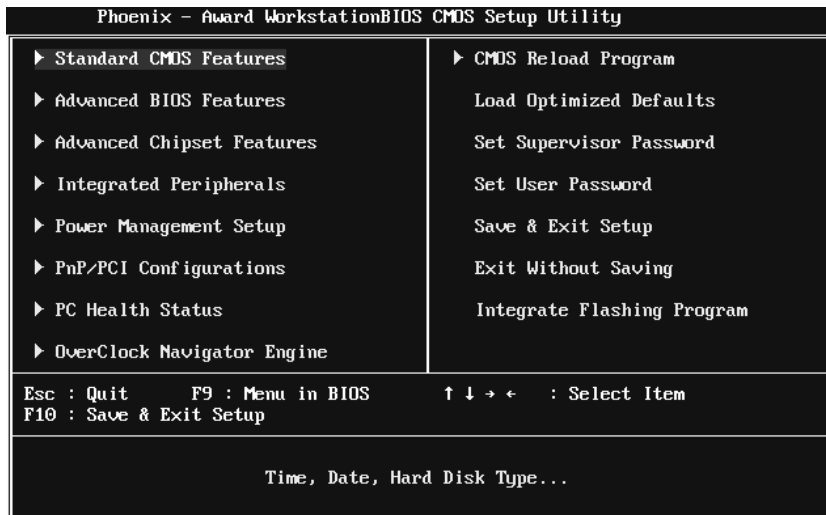
1 Main Menu

Once you enter Phoenix-Award BIOS™ CMOS Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.

!! WARNING !!

For better system performance, the BIOS firmware is being continuously updated. The BIOS information described in this manual (**Figure 1, 2, 3, 4, 5, 6, 7, 8, 9,10**) is for your reference only. The actual BIOS information and settings on board may be slightly different from this manual.

■ **Figure 1: Main Menu**



Standard CMOS Features

This submenu contains industry standard configurable options.

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Advanced BIOS Features

This submenu allows you to configure advanced features of the BIOS.

Advanced Chipset Features

This submenu allows you to configure special chipset features.

Integrated Peripherals

This submenu allows you to configure certain IDE hard drive options and Programmed Input/ Output features.

Power Management Setup

This submenu allows you to configure the power management features.

PnP/PCI Configurations

This submenu allows you to configure certain “Plug and Play” and PCI options.

PC Health Status

This submenu allows you to monitor the hardware of your system.

OverClock Navigator Engine (O.N.E.)

ONE provides two powerful overclock engines, MOS & AOS for both overclock expertise and beginner.

CMOS Reload Program (C.R.P.)

The CMOS Reload Program (CRP) allows you to save different CMOS settings into BIOS-ROM.

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Load Optimized Defaults

This selection allows you to reload the BIOS when problem occurs during system booting sequence. These configurations are factory settings optimized for this system. A confirmation message will be displayed before defaults are set.

```
Load Optimized Defaults (Y/N)? N
```

Set Supervisor Password

Setting the supervisor password will prohibit everyone except the supervisor from making changes using the CMOS Setup Utility. You will be prompted with to enter a password.

```
Enter Password:
```

Set User Password

If the Supervisor Password is not set, then the User Password will function in the same way as the Supervisor Password. If the Supervisor Password is set and the User Password is set, the "User" will only be able to view configurations but will not be able to change them.

```
Enter Password:
```

Save & Exit Setup

Save all configuration changes to CMOS (memory) and exit setup. Confirmation message will be displayed before proceeding.

```
SAVE to CMOS and EXIT (Y/N)? Y
```

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Exit Without Saving

Abandon all changes made during the current session and exit setup. Confirmation message will be displayed before proceeding.

Quit Without Saving (Y/N)? N

Integrate Flashing Program

This submenu allows you to upgrade bios.

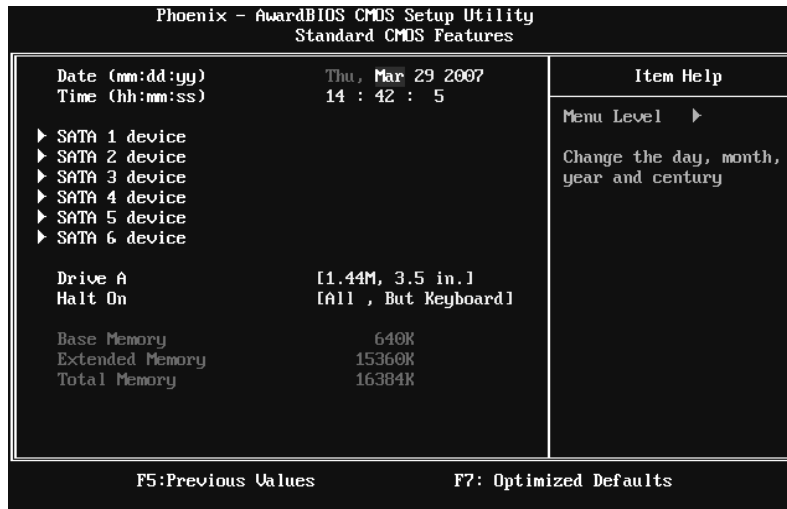
BIOS UPDATE UTILITY (Y/N)? N

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2 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into several categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

■ **Figure 2: Standard CMOS Setup**



Main Menu Selections

This table shows the items and the available options on the Main Menu.

Item	Options	Description
Date	mm : dd : yy	Set the system date. Note that the 'Day' automatically changes when you set the date.
Time	hh : mm : ss	Set the system internal clock.
SATA 1 - SATA 6 device	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options

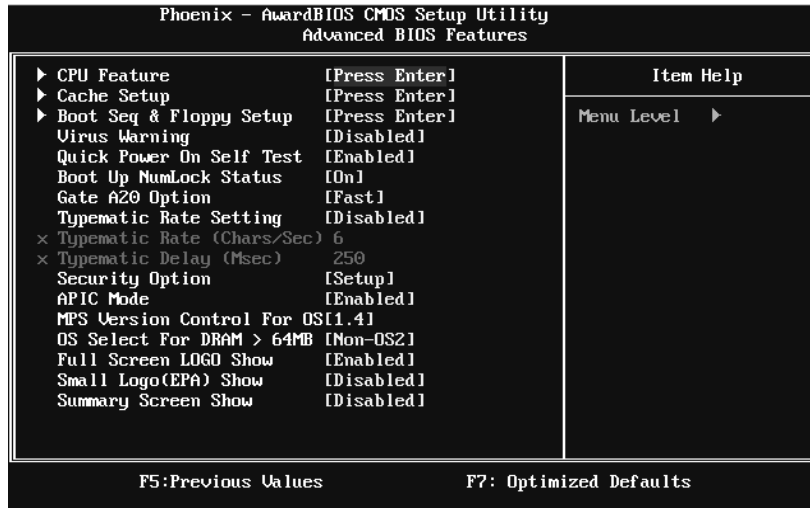
TP35D3-A7 Deluxe

Item	Options	Description
Drive A	360K, 5.25 in 1.2M, 5.25 in 720K, 3.5 in 1.44M, 3.5 in 2.88M, 3.5 in None	Select the type of floppy disk drive installed in your system.
Halt On	All Errors No Errors All, but Keyboard All, but Diskette All, but Disk/ Key	Select the situation in which you want the BIOS to stop the POST process and notify you.
Base Memory	N/A	Displays the amount of conventional memory detected during boot up.
Extended Memory	N/A	Displays the amount of extended memory detected during boot up.
Total Memory	N/A	Displays the total memory available in the system.

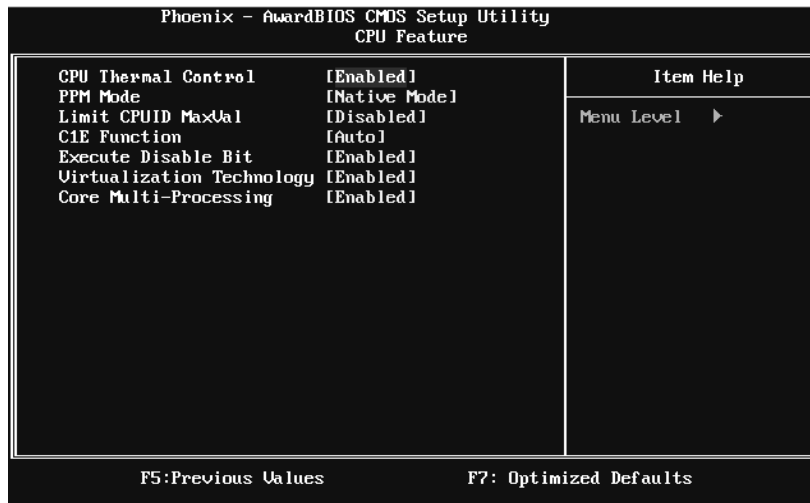
TP35D3-A7 Deluxe

3 Advanced BIOS Features

■ Figure 3: Advanced BIOS Setup



CPU Feature



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CPU Thermal Control

This item allows you to enabled/disabled the CPU thermal control function.

The Choices: Enabled (default), Disabled.

PPM Mode

The Choices: Native Mode (default), SMM Mode.

Limit CPUID MaxVal

Set Limit CPUID MaxVal to 3, it should be “Disabled” for Windows XP.

The Choices: Disabled (default), Enabled.

C1E Function

This item allows you to configure the Enhanced Halt State (C1E) function, which may reduce the power consumption of your system when the system is idle.

The Choices: Auto (default), Disabled.

Execute Disable Bit

This item allows you to configure the Execute Disabled Bit function, which protects your system from buffer overflow attacks.

The Choices: Enabled (default), Disabled.

Virtualization Technology

Virtualization Technology can virtually separate your system resource into several parts, thus enhance the performance when running virtual machines or multi interface systems.

The Choices: Enabled (default), Disabled.

Core Multi-Processing

The Choices: Enabled (default), Disabled.

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Cache Setup

Phoenix - Award Workstation BIOS CMOS Setup Utility	
Cache Setup	
CPU L3 Cache	[Enabled]
	Item Help
	Menu Level >>
F5: Previous Values	
F7: Optimized Defaults	

CPU L3 Cache

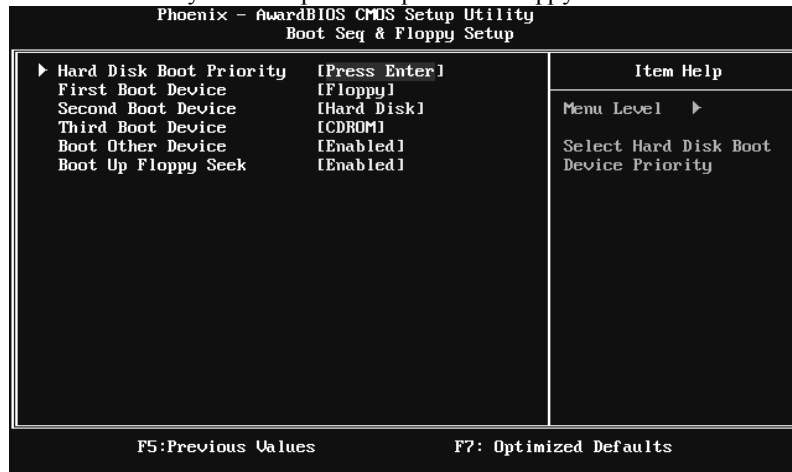
Depending on the CPU/chipset in use, you may be able to increase memory access time with this option.

Enabled (default) Enable cache.
Disabled Disable cache.

TP35D3-A7 Deluxe

Boot Seq & Floppy Setup

This item allows you to setup boot sequence & Floppy.



Hard Disk Boot Priority

The BIOS will attempt to arrange the Hard Disk boot sequence automatically. You can change the Hard Disk booting sequence here.



The Choices: Pri. Master, Pri. Slave, Sec. Master, Sec. Slave, USB HDD0, USB HDD1, USB HDD2, and Bootable Add-in Cards.

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First/Second/Third Boot Device

The BIOS will attempt to load the operating system in this order.

The Choices: Floppy, LS120, Hard Disk, CDROM, ZIP100, USB-FDD, USB-ZIP, USB-CDROM, LAN, Disabled.

Boot Other Device

When enabled, BIOS will try to load the operating system from other device when it failed to load from the three devices above.

The Choices: Enabled (default), Disabled.

Boot Up Floppy Seek

When enabled, System will test the floppy drives to determine if they have 40 or 80 tracks during boot up. Disabling this option reduces the time it takes to boot-up.

The Choices: Enabled (default), Disabled.

Virus Warning

This option allows you to choose the VIRUS Warning feature that is used to protect the IDE Hard Disk boot sector. If this function is enabled and an attempt is made to write to the boot sector, BIOS will display a warning message on the screen and sound an alarm beep.

Disabled (default) Virus protection is disabled.

Enabled Virus protection is activated.

Quick Power On Self Test

Enabling this option will cause an abridged version of the Power On Self-Test (POST) to execute after you power up the computer.

Disabled Normal POST.

Enabled (default) Enable quick POST.

Boot Up NumLock Status

Selects the NumLock State after the system switched on.

The Choices:

On (default) Numpad is number keys.

Off Numpad is arrow keys.

Gate A20 Option

Select if chipset or keyboard controller should control Gate A20.

Normal A pin in the keyboard controller controls GateA20.

Fast (default) Lets chipset control Gate A20.

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Typematic Rate Setting

When a key is held down, the keystroke will repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be configured.

The Choices: **Disabled** (default), Enabled.

Typematic Rate (Chars/Sec)

Sets the rate at which a keystroke is repeated when you hold the key down.

The Choices: **6** (default), 8, 10, 12, 15, 20, 24, 30.

Typematic Delay (Msec)

Sets the delay time after the key is held down before it begins to repeat the keystroke.

The Choices: **250** (default), 500, 750, 1000.

Security Option

This option will enable only individuals with passwords to bring the system online and/or to use the CMOS Setup Utility.

System: A password is required for the system to boot and is also required to access the Setup Utility.

Setup (default): A password is required to access the Setup Utility only. This will only apply if passwords are set from the Setup main menu.

APIC MODE

Selecting Enabled enables APIC device mode reporting from the BIOS to the operating system.

The Choices: **Enabled** (default), Disabled.

MPS Version Control For OS

The BIOS supports version 1.1 and 1.4 of the Intel multiprocessor specification. Select version supported by the operation system running on this computer.

The Choices: **1.4** (default), 1.1.

OS Select For DRAM > 64MB

A choice other than Non-OS2 is only used for OS2 systems with memory exceeding 64MB.

The Choices: **Non-OS2** (default), OS2.

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Full Screen LOGO Show

This item allows you to enable/disable Full Screen LOGO Show.

The Choices: Enabled (default), Disabled.

Small Logo(EPA) Show

This item allows you to select whether the “Small Logo” shows.

The Choices: Disabled (default), Enabled.

Summary Screen Show

This item allows you to enable/disable the summary screen. Summary screen means system configuration and PCI device listing.

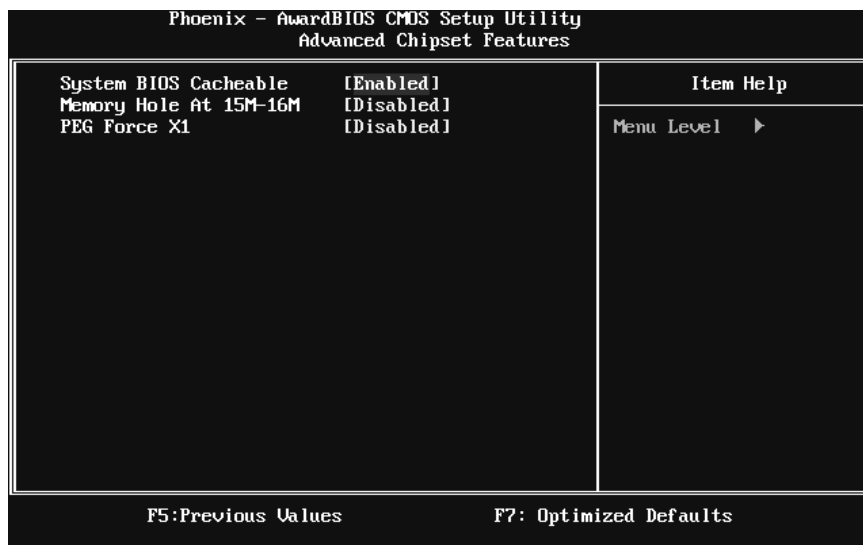
The Choices: Disabled (default), Enabled.

TP35D3-A7 Deluxe

4 Advanced Chipset Features

This submenu allows you to configure the specific features of the chipset installed on your system. This chipset manage bus speeds and access to system memory resources, such as DRAM. It also coordinates communications with the PCI bus. The default settings that came with your system have been optimized and therefore should not be changed unless you are suspicious that the settings have been changed incorrectly.

■ **Figure 4: Advanced Chipset Setup**



System BIOS Cacheable

Selecting the “Enabled” option allows caching of the system BIOS ROM at F0000h-FFFFFh, which is able to improve the system performance. However, any programs that attempts to write to this memory block will cause conflicts and result in system errors.

The Choices: Enabled (default), Disabled.

TP35D3-A7 Deluxe

Memory Hole At 15M-16M

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved it cannot be cached. Check the user information of peripherals that need to use this area of system memory for the memory requirements.

The Choices: **Disabled** (default), Enabled.

PEG Force X1

When using on-chip VGA, this item has to be set as X1.

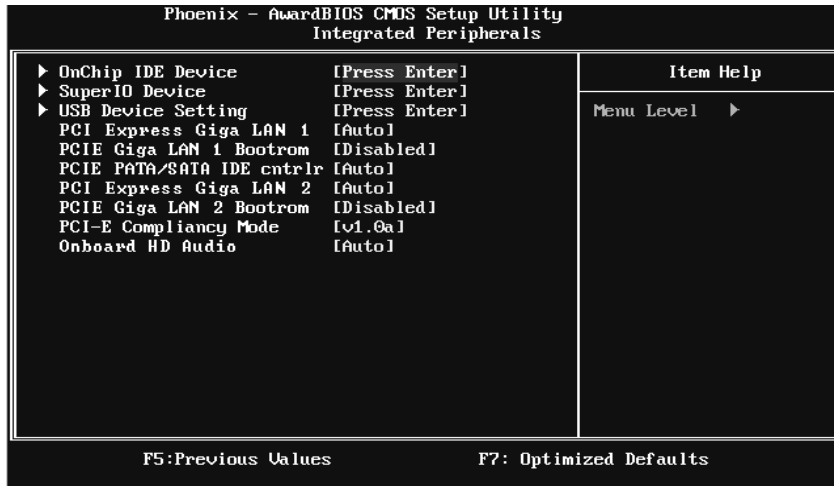
Disabled (default) PCI Express X16

Enabled PCI Express X1

TP35D3-A7 Deluxe

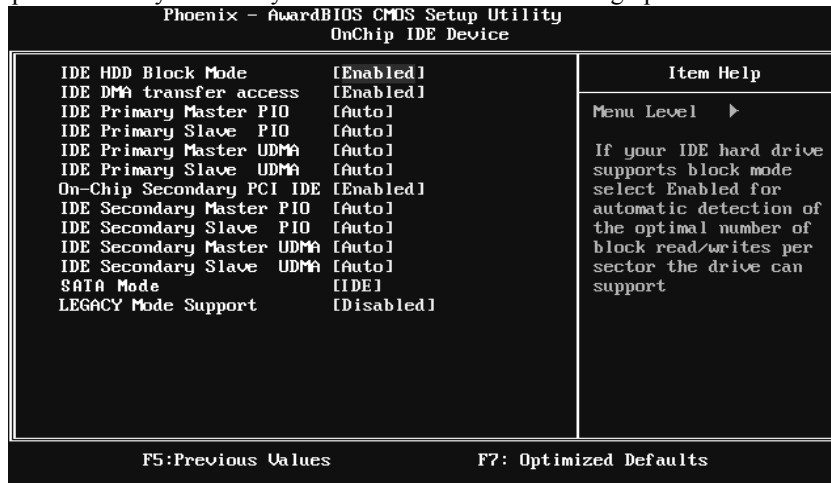
5 Integrated Peripherals

■ Figure 5. Integrated Peripherals



OnChip IDE Device

Highlight the "Press Enter" label next to the "OnChip IDE Device" label and press enter key will take you a submenu with the following options:



TP35D3-A7 Deluxe

IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sectors read / write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read / write per sector where the drive can support.

The Choices: Enabled (default), Disabled.

IDE DMA Transfer Access

This item allows you to enable or disable the IDE DMA transfer access.

The Choices: Enabled (default), Disabled.

IDE Primary/Secondary Master/Slave PIO

The IDE PIO (Programmed Input / Output) fields let you set a PIO mode (0-4) for each of the IDE devices that the onboard IDE interface supports. Modes 0 to 4 will increase performance progressively. In Auto mode, the system automatically determines the best mode for each device.

The Choices: Auto (default), Mode0, Mode1, Mode2, Mode3, Mode4.

On-chip Secondary PCI IDE

This item allows you to enable or disable the primary / secondary IDE Channel.

The Choices: Enabled (default), Disabled.

IDE Primary/Secondary Master/Slave UDMA

Ultra DMA function can be implemented if it is supported by the IDE hard drives in your system. As well, your operating environment requires a DMA driver (Windows 95 or OSR2 may need a third party IDE bus master driver). If your hard drive and your system software both support Ultra DMA, select Auto to enable BIOS support.

The Choices: Auto (default), Disabled.

SATA Mode

This option allows you to choose SATA function.

The Choices: IDE (default), RAID, AHCI.

LEGACY Mode Support

This item allows you to enable or disable legacy mode support.

The Choices: Disabled (default), Enabled.

TP35D3-A7 Deluxe

Super IO Device

Press Enter to configure the Super I/O Device.

Phoenix - AwardBIOS CMOS Setup Utility		
SuperIO Device		
Onboard FDC Controller	[Enabled]	Item Help Menu Level ▶
Onboard Serial Port 1	[3F8/IRQ4]	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	
x ECP Mode Use DMA 3		
F5: Previous Values		F7: Optimized Defaults

Onboard FDC Controller

Select enabled if your system has a floppy disk controller (FDC) installed on the system board and you wish to use it. If you installed another FDC or the system uses no floppy drive, select disabled in this field.

The Choices: Enabled (default), Disabled.

Onboard Serial Port 1

Select an address and corresponding interrupt for the first and second serial ports.

The Choices: 3F8/IRQ4 (default), Disabled, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Auto.

Onboard Parallel Port

This item allows you to determine access onboard parallel port controller with which I/O Address.

The Choices: 378/IRQ7 (default), 278/IRQ5, 3BC/IRQ7, Disabled.

TP35D3-A7 Deluxe

Parallel Port Mode

This item allows you to determine how the parallel port should function. The default value is SPP.

The Choices:

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

ECP Mode Use DMA

Select a DMA Channel for the port.

The Choices: 3 (default), 1.

USB Device Setting

Highlight the “Press Enter” label next to the “Onboard Device” label and press the enter key will take you a submenu with the following options:

Phoenix - AwardBIOS CMOS Setup Utility	
USB Device Setting	
USB 1.0 Controller	[Enabled]
USB 2.0 Controller	[Enabled]
USB Operation Mode	[High Speed]
USB Keyboard Function	[Enabled]
USB Mouse Function	[Enabled]
USB Storage Function	[Enabled]
*** USB Mass Storage Device Boot Setting ***	
UFDDA	USB Floppy
UFDDB	USB Floppy
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]
No Device	[Auto mode]

F5: Previous Values F7: Optimized Defaults

USB 1.0/2.0 Controller

If your system contains a Universal Serial Bus (USB) controller, This entry is to enable/disable Enhanced host controller .

The Choices: Enabled (default), Disabled.

TP35D3-A7 Deluxe

USB Operation Mode

Auto decide USB device operation mode.

[High Speed]: If USB device was high speed device, then it operated on high speed mode. If USB device was full/low speed, then it operated on full/low speed mode.

[Full/Low Speed]: All of USB device operated on full/low speed mode.

The Choices: High Speed (default), Full/Low Speed.

USB Keyboard/ Mouse/ USB Storage Function

This item allows you to enable or disable the USB Keyboard/ Mouse/ USB Storage Legacy Support.

Enabled(default) Enable USB Keyboard/ Mouse/ USB Storage Support.

Disabled Disable USB Keyboard / Mouse/ USB Storage Support.

USB Mass Storage Device Boot Setting

These options allow you to choose the boot up type of the USB mass storage devices..

The Choices: Auto mode (default), FDD mode, HDD mode.

PCI Express Giga LAN 1/2

This item allows you to enable or disable the Onboard LAN.

The Choices: Auto (default), Disabled.

PCIE Giga LAN 1/2 Boot ROM

This item allows you to enable or disable the Onboard LAN Boot ROM.

The Choices: Disabled (default), Enabled.

PCIE PATA/SATA IDE cntrlr

The Choices: Auto (default), Disabled.

PCI-E Compliancy Mode

This item allows you to select the PCI-E Compliancy Mode.

The Choices: v1.0a (default), v1.0.

Onboard HD Audio

This item allows you to control the onboard HD audio codec.

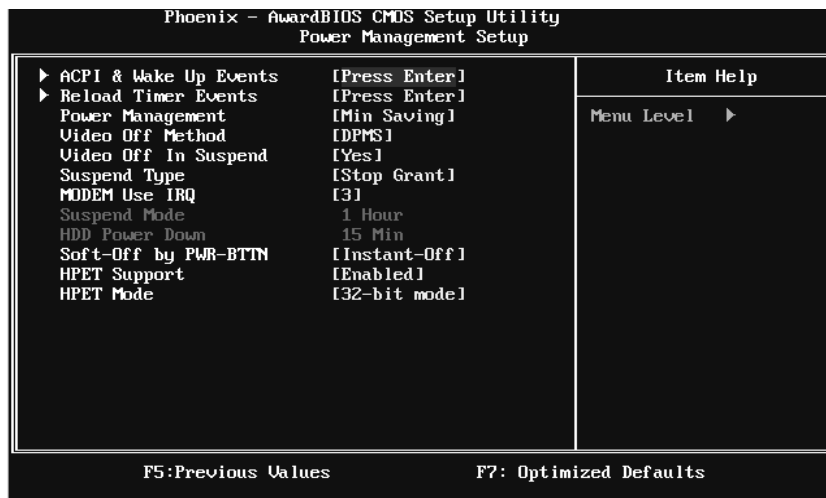
The Choices: Auto (default), Disabled.

TP35D3-A7 Deluxe

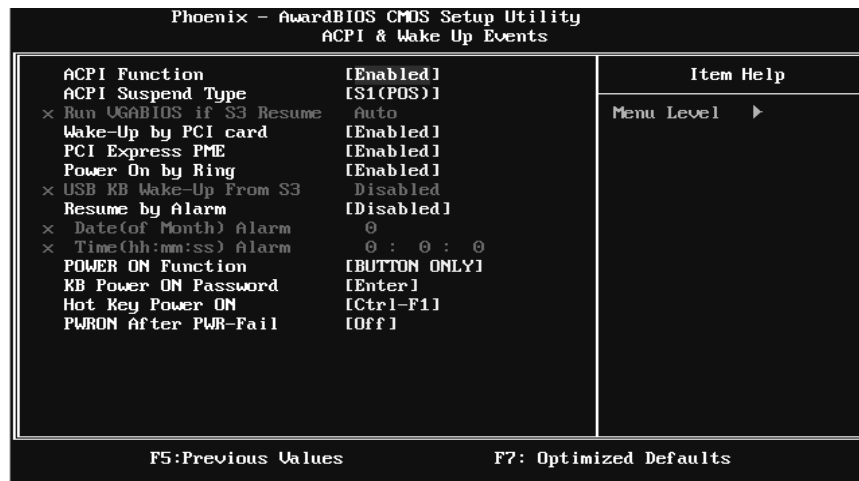
6 Power Management Setup

The Power Management Setup Menu allows you to configure your system to utilize energy conservation and power up/power down features.

■ Figure 6. Power Management Setup



ACPI & Wake Up Events



TP35D3-A7 Deluxe

ACPI Function

This item displays the status of the Advanced Configuration and Power Management (ACPI).

The Choices: Enabled (default), Disabled.

ACPI Suspend Type

The item allows you to select the suspend type under the ACPI operating system.

The Choices: S1 (POS) (default) Power on Suspend
S3 (STR) Suspend to RAM
S1 & S3 POS+STR

Run VGABIOS if S3 Resume

Choosing Enabled will make BIOS run VGA BIOS to initialize the VGA card when system wakes up from S3 state. The system resume time is shortened if you disable the function, but system will need AGP driver to initialize the card. So, if the AGP driver of the VGA card does not support the initialization feature, the display may work abnormally or not function after S3.

The Choices: Auto (default), Yes, No.

Wake-Up by PCI card

When you select "Enable", a PME signal from PCI card returns the system to Full On state.

The Choices: Enabled (default), Disabled.

PCI Express PME

The Choices: Enabled (default), Disabled.

Power On by Ring

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

The Choices: Enabled, Disabled (default).

USB KB Wake-Up From S3

This item allows you to enable or disabled the USB keyboard wake up from S3 function.

The Choices: Disabled (default), Enabled.

Resume by Alarm

This function is for setting date and time for your computer to boot up. When enabled, you can choose the date and time of system resume.

The Choices: Disabled (default), Enabled.

Date (of Month) Alarm

You can choose which month the system will boot up.

TP35D3-A7 Deluxe

Time (hh:mm:ss) Alarm

You can choose the system boot up time, input hour, minute and second to specify.

Note: If you have change the setting, you must let the system boot into operating system, before this function will work.

POWER ON Function

This item allows you to choose the power on method.

The Choices: **Button Only** (default), Password, Hot Key, Mouse Move/Click, Any Key, Keyboard 98.

KB Power ON Password

Input password and press Enter to set the Keyboard power on password.

Hot Key Power ON

Choose the Hot Key combination to boot up the system.

The Choices: **Ctrl-F1** (default), Ctrl-F2, Ctrl-F3, Ctrl-F4, Ctrl-F5, Ctrl-F6, Ctrl-F7, Ctrl-F8, Ctrl-F9, Ctrl-F10, Ctrl-F11, and Ctrl-F12.

PWRON After PWR-Fail

This setting specifies how your system should behave after a power fail or interrupts occurs. By choosing off will leave the computer in the power off state. Choosing On will reboot the computer. Former-Sts will restore the system to the status before power failure or interrupt occurs.

The Choices: **Off** (default), On, Former-Sts.

TP35D3-A7 Deluxe

Reload Timer Events

Phoenix - AwardBIOS CMOS Setup Utility		Item Help
Reload Timer Events		Menu Level ▶
Primary IDE 0	[Disabled]	
Primary IDE 1	[Disabled]	
Secondary IDE 0	[Disabled]	
Secondary IDE 1	[Disabled]	
FDD, COM, LPT Port	[Disabled]	
PCI PIRQ[A-D]#	[Disabled]	

F5: Previous Values F7: Optimized Defaults

Primary/Secondary IDE 0/1

You can enable or disable Primary or Secondary RAID 0 or RAID 1 function under this item.

The Choices: Disabled (default), Enabled.

FDD, COM, LPT Port

You can enable or disable FDD, COM, and LPT port under this item.

The Choices: Disabled (default), Enabled.

PCI PIRQ [A-D]#

You can enable or disable PCI PIRQ [A-D]# under this item.

The Choices: Disabled (default), Enabled.

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Power Management

This category allows you to select the power saving method and is directly related to the following modes:

1. HDD Power Down.
2. Suspend Mode.

There are three options of Power Management, three of which have fixed mode settings

Min. Saving (default)

Minimum power management.

Suspend Mode = 1 hr.

HDD Power Down = 15 min

Max. Saving

Maximum power management only available for s1 CPU's.

Suspend Mode = 1 min.

HDD Power Down = 1 min.

User Define

Allow you to set each option individually.

When you choose user define, you can adjust each of the item from 1 min. to 1 hr. except for HDD Power Down which ranges from 1 min. to 15 min.

Video Off Method

This option determines the manner when the monitor goes blank.

V/H SYNC+Blank

This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.

Blank Screen

This option only writes blanks to the video buffer.

DPMS (default)

Initial display power management signaling.

Video Off In Suspend

This item determines the monitor status when the system is in Suspend mode.

The Choices: Yes (default), No.

TP35D3-A7 Deluxe

Suspend Type

Select the Suspend Type.

The Choices: **Stop Grant** (default), PwrOn Suspend.

Modem Use IRQ

This determines the IRQ, which can be applied in MODEM use.

The Choices: **3** (default), 4, 5, 7, 9, 10, 11, NA.

Suspend Mode

The item allows you to adjust the system idle time before suspend.

The Choices: Disabled, 1 Min, 2 Min, 4 Min, 6 Min, 8 Min, 10 Min, 20 Min, 30 Min, 40 Min, **1 Hour** (default).

HDD Power Down

When enabled, the hard-disk drives will power down after a set time of system inactivity. All other devices remain active.

The Choices: Disabled, 1 Min, 2 Min, 3 Min, 4 Min, 5 Min, 6 Min, 7 Min, 8 Min, 9 Min, 10 Min, 11 Min, 12 Min, 13 Min, 14 Min, **15 Min** (default).

Soft-Off by PWR-BTN

This item determines the behavior of system power button. Instant off turn off the power immediately, and Delay 4 Sec. will require you to press and hold the power button for 4 seconds to cut off the system power.

The Choices: Delay 4 Sec, **Instant-Off** (default).

HPET Support

The Choices: **Enabled**(default), Disabled.

HPET Mode

The Choices: **32-bit mode** (default), 64-bit mode.

TP35D3-A7 Deluxe

7 PnP/PCI Configurations

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.

■ **Figure 7: PnP/PCI Configurations**



Init Display First

This item allows you to decide to active whether PCI Slot or on-chip VGA first.
The Choices: PCI Slot (default), PCIEx.

Resources Controlled By

By Choosing “Auto(ESCD)” (default), the system BIOS will detect the system resources and automatically assign the relative IRQ and DMA channel for each peripheral. By Choosing “Manual”, the user will need to assign IRQ & DMA for add-on cards. Be sure that there are no IRQ/DMA and I/O port conflicts.
The Choices: Auto (default), Manual.

TP35D3-A7 Deluxe

IRQ Resources

This submenu will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. When you press the “Press Enter” tag, you will be directed to a submenu that will allow you to configure the system interrupts. This is only configurable when “Resources Controlled By” is set to “Manual”.

IRQ-3	assigned to	PCI Device
IRQ-4	assigned to	PCI Device
IRQ-5	assigned to	PCI Device
IRQ-7	assigned to	PCI Device
IRQ-9	assigned to	PCI Device
IRQ-10	assigned to	PCI Device
IRQ-11	assigned to	PCI Device
IRQ-12	assigned to	PCI Device
IRQ-14	assigned to	PCI Device
IRQ-15	assigned to	PCI Device

PCI / VGA Palette Snoop

Some old graphic controllers need to “snoop” on the VGA palette and then map it to their display as a way to provide boot information and VGA compatibility. This item allows such snooping to take place.

The Choices: Disabled (default), Enabled.

Assign IRQ For USB

This item allows the users to choose which IRQ to assign for the USB.

The Choices: Enabled (default), Disabled.

Maximum Payload Size

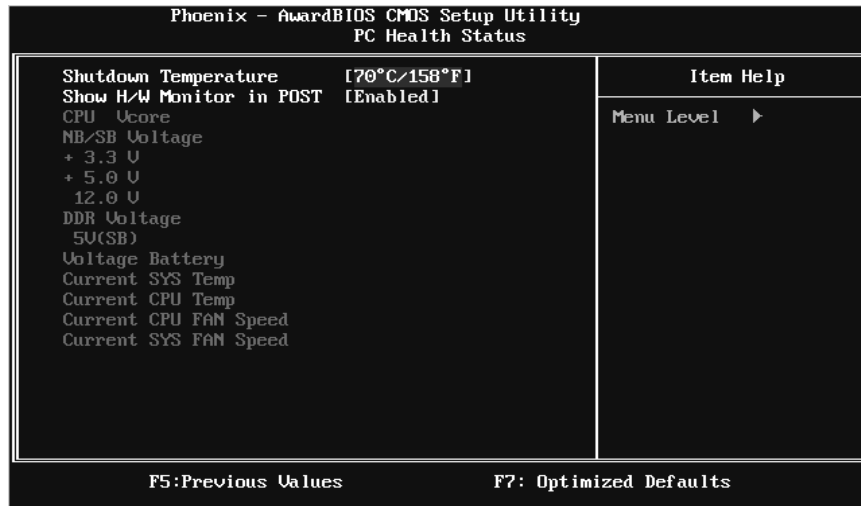
Set the maximum payload size for Transaction packets (TLP).

The Choice: 4096 (default.), 128, 256, 512, 1024, 2048.

TP35D3-A7 Deluxe

8 PC Health Status

■ Figure 8: PC Health Status



Shutdown Temperature

This item allows you to set up the CPU shutdown Temperature. This item is only effective under Windows 98 ACPI mode.

The Choices: 70°C / 158°F (default), 60°C / 140°F, 65°C / 149°F, 75°C / 167°F, 80°C / 176°F, 85°C / 185°F, 90°C / 194°F, 95°C / 203°F, Disabled.

Show HW Monitor in POST

If your computer contains a monitoring system, it will show PC health status during POST stage. The item offers several different delay times.

The Choices: Enabled (default), Disabled.

CPU Vcore, NB/SB Voltage, +3.3V, +5.0V, 12.0V, DDR Voltage, 5V (SB), Voltage Battery

Detect the system's voltage status automatically.

TP35D3-A7 Deluxe

Current SYS Temp

This field displays the current temperature of system.

Current CPU Temp

This field displays the current temperature of CPU.

Current CPU FAN Speed

This field displays the current speed of CPU fan.

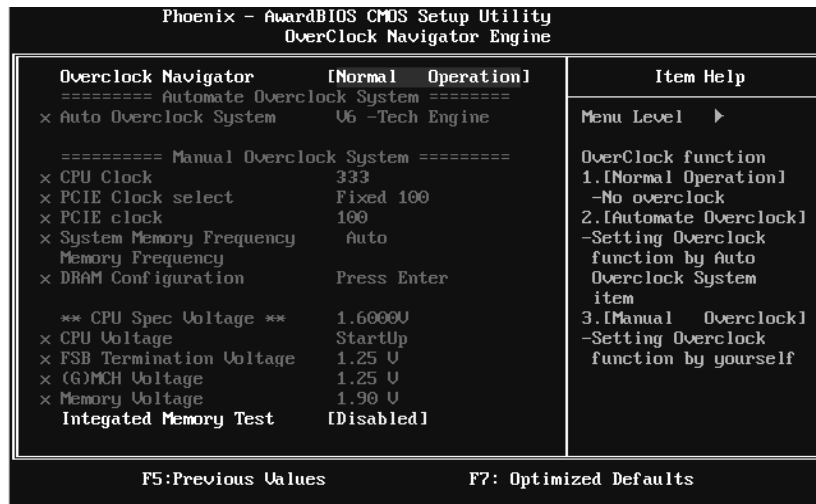
Current SYS FAN Speed

This field displays the current speed of SYSTEM fan.

TP35D3-A7 Deluxe

9 Over Clock Navigator

■ Figure 9: Over Clock Navigator



OverClock Navigator

OverClock Navigator is designed for beginners in overclock field. Based on many test and experiments from Biostar Engineer Team, OverClock Navigator provides 3 default overclock configurations that are able to raise the system performance.

The Choices: Normal Operation (default), Automate Overclock, Manual Overclock.

TP35D3-A7 Deluxe

Auto OverClock System

Phoenix - AwardBIOS CMOS Setup Utility OverClock Navigator Engine		Item Help
Overclock Navigator	[Automate Overclock]	
===== Automate Overclock System =====		
Auto Overclock System	[U6 -Tech Engine]	Menu Level ▶
===== Manual Overclock System =====		
× CPU Clock	333	OverClock function
× PCIE Clock select	Fixed 100	1.[Normal Operation]
× PCIE clock	100	-No overclock
× System Memory Frequency	Auto	2.[Automate Overclock]
Memory Frequency		-Setting Overclock
× DRAM Configuration	Press Enter	function by Auto
		Overclock System
** CPU Spec Voltage **	1.6000V	item
× CPU Voltage	StartUp	3.[Manual Overclock]
× FSB Termination Voltage	1.25 V	-Setting Overclock
× (G)MCH Voltage	1.25 V	function by yourself
× Memory Voltage	1.90 V	
Integated Memory Test	[Disabled]	
F5: Previous Values		F7: Optimized Defaults

The Overclock Navigator provides 3 different engines helping you to overclock your system. These engines will boost your system performance to different level.

The Choices:

V6 Tech Engine

This setting will raise about 5%~10% of whole system performance.

V8 Tech Engine

This setting will raise about 15%~25% of whole system performance.

V12 Tech Engine

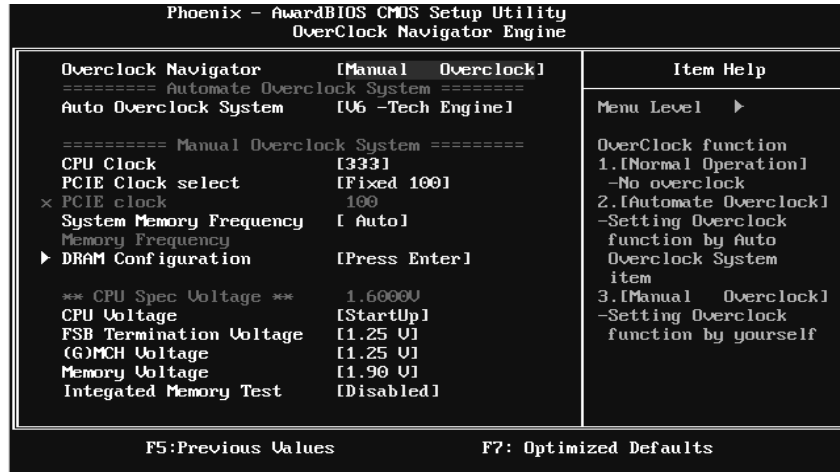
This setting will raise about 25%~30% of whole system performance.

Cautions:

1. Not every AMD CPU performs the above overclock setting ideally; the difference may vary with the installed CPU model.
2. From BET experiment, the Atholon64 FX CPU is not suitable for this A.O.S. feature.

TP35D3-A7 Deluxe

Manual Overclock System (M.O.S.)



MOS is designed for experienced overlock users.
It allows users to customize personal overlock setting.

Note:

Based on our test results; the overlock function achieved the best performance on AMD 3000+ CPU

CPU Clock

The Choices: 333 (default).
Min=100 Max=333 Key in a DEC number.

PCIE Clock select

The Choices: Fixed 100 (default), Manual.

PCIE Clock

Display the PCIE Clock frequency; Min=100, Max=200, key in a DEC number.

System Memory Frequency

The Choices: Auto (default), 533MHz, 677MHz, 800MHz.

TP35D3-A7 Deluxe

DRAM Configuration

Phoenix - AwardBIOS CMOS Setup Utility		Item Help
DRAM Configuration		Menu Level ▶▶
DRAM Timing Selectable	[By SPD]	
× CAS Latency Time	Auto	
× DRAM RAS# to CAS# Delay	Auto	
× DRAM RAS# Precharge	Auto	
× Precharge delay <tRAS>	Auto	
× TWR	Auto	
× TWTR	Auto	
× TRRD	Auto	
× TRTP	Auto	

↑↓: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

DRAM Timing Selectable

The Choices: By SPD (Default), Manual.

CAS Latency Time

The Choices: Auto (Default), 3, 4, 5, 6.

DRAM RAS# to CAS# Delay

The Choices: Auto (Default), 3, 4, 5, 6, 7.

DRAM RAS# Precharge

The Choices: Auto (Default), 3, 4, 5, 6, 7.

Precharge delay <tRAS>

The Choices: Auto (Default), 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23.

TWR

The Choices: Auto (Default), 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

TWTR

The Choices: Auto (Default), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

TRRD

The Choices: Auto (Default), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

TRTP

The Choices: Auto (Default), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

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CPU Voltage

This item allows you to select CPU Voltage Control.

The Choices: StartUp (default); Scope: +0.012V~+0.787V.

FSB Termination Voltage

The Choices: 1.25V (default) ; Scope: 1.25~1.60, Interval: 0.025V.

(G)MCH Voltage

The Choices: 1.25V (default); Scope: 1.25~1.65V, Interval: 0.025V.

Memory Voltage

The Choices: 1.90V (default); Scope: 1.90V~2.95V, Interval: 0.05.

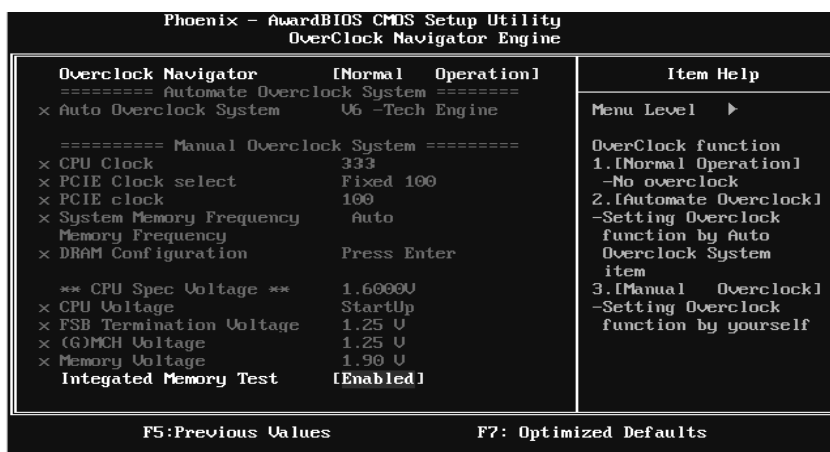
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Integrated Memory Test

Integrated Memory Test allows users to test memory module compatibilities without additional device or software.

Step 1:

This item is disabled on default; change it to “Enable” to precede memory test.



Step 2:

When the process is done, change the setting back from “Enabled” to “Disabled” to complete the test.



TP35D3-A7 Deluxe

10 CMOS Reload Program (C.R.P.)

The CMOS Reload Program (CRP) allows you to save different CMOS settings into BIOS-ROM. You may reload any saved CMOS setting to change system configurations. Moreover, you may save your ideal overclock setting for easier overclocking. There are 50 sets record addresses in total, and you may name the saved CMOS data individually.

■ **Figure 10: CMOS Reload Program(C.R.P)**

