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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 2
-  Rear I/O Panel for ATX Case X 1
-  User's Manual X 1
-  Fully Setup Driver CD X 1
-  FDD Cable X 1 (optional)
-  USB 2.0 Cable X1 (optional)
-  S/PDIF out Cable X 1 (optional)
-  Serial ATA Power Cable X 1 (optional)

Note: The package contents may differ by area or your motherboard version.

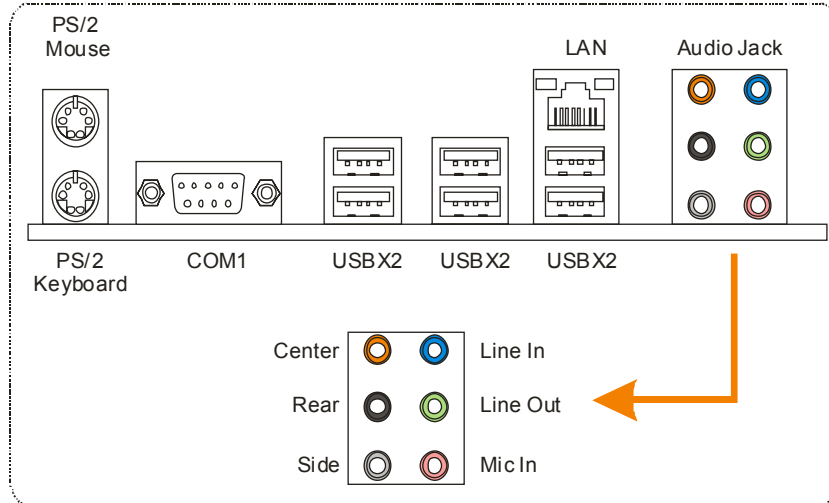
1.3 MOTHERBOARD FEATURES

| | Ver 5.x | Ver 6.x |
|-------------|---|---|
| CPU | LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium D / Pentium 4 / Celeron D 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 / Celeron D processor Supports Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology |
| FSB | Support 533 / 800 / 1066 / 1333 MHz Support 1600 MHz (with DDR2 800) | Support 533 / 800 / 1066 / 1333 MHz Support 1600 MHz (with DDR2 800) |
| Chipset | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| 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 256MB / 512MB / 1GB / 2GB DDR2 Max Memory Capacity 8GB Dual Channel Mode DDR2 memory module Supports DDR2 800 / 667 Supports DDR2 533 (with FSB 533/1066 CPU) Registered DIMM and ECC DIMM is not supported | DIMM Slots x 4 Each DIMM supports 256MB / 512MB / 1GB / 2GB DDR2 Max Memory Capacity 8GB Dual Channel Mode DDR2 memory module Supports DDR2 800 / 667 Supports DDR2 533 (with FSB 533/1066 CPU) Registered DIMM and ECC DIMM is not supported |
| IDE | JMicro JMB368 Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4 | JMicro JMB368 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 |

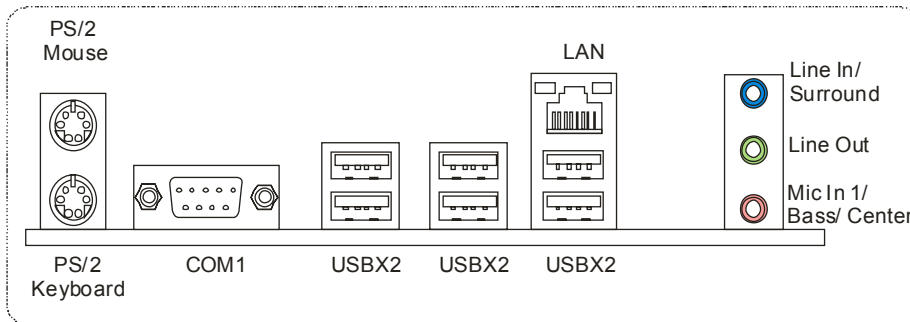
TP35D2-A7 SE

| | Ver 5.x | Ver 6.x |
|--------------------|--|--|
| LAN | Realtek RTL 8110SC / 8100C (optional) 10 / 100 Mb/s / 1Gb/s auto negotiation (Gigabit bandwidth is for RTL 8110SC only) Half / Full duplex capability | Realtek RTL 8110SC / 8100C (optional) 10 / 100 Mb/s / 1Gb/s auto negotiation (Gigabit bandwidth is for RTL 8110SC only) Half / Full duplex capability |
| Sound Codec | ALC888 7.1 channels audio out High Definition Audio | ALC662 5.1 channels audio out High Definition Audio |
| Slots | PCI slot x3 PCI Express x 16 slot x1 PCI Express x 4 slot x1 PCI Express x 1 slot x1 | PCI slot x3 PCI Express x 16 slot x1 PCI Express x 4 slot x1 PCI Express x 1 slot x1 |
| On Board Connector | Floppy connector x1 Printer Port Connector x1 IDE Connector x1 SATA Connector x4 Front Panel Connector x1 Front Audio Connector x1 CD-in Connector x1 S/PDIF out connector x1 S/PDIF in connector(optional) x1 CPU Fan header x1 System Fan header x2 Clear CMOS header x1 USB connector x3 Power Connector (24pin) x1 Power Connector (4pin) x1 | Floppy connector x1 Printer Port Connector x1 IDE Connector x1 SATA Connector x4 Front Panel Connector x1 Front Audio Connector x1 CD-in Connector x1 S/PDIF out connector x1 S/PDIF in connector(optional) x1 CPU Fan header x1 System Fan header x2 Clear CMOS header x1 USB connector x3 Power Connector (24pin) x1 Power Connector (4pin) x1 |
| Back Panel I/O | PS/2 Keyboard x1 PS/2 Mouse x1 Serial Port x1 LAN port x1 USB Port x6 Audio Jack x6 | PS/2 Keyboard x1 PS/2 Mouse x1 Serial Port x1 LAN port x1 USB Port x6 Audio Jack x3 |
| Board Size | 220 (W) x 305 (L) mm | 220 (W) x 305 (L) mm |
| 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 |

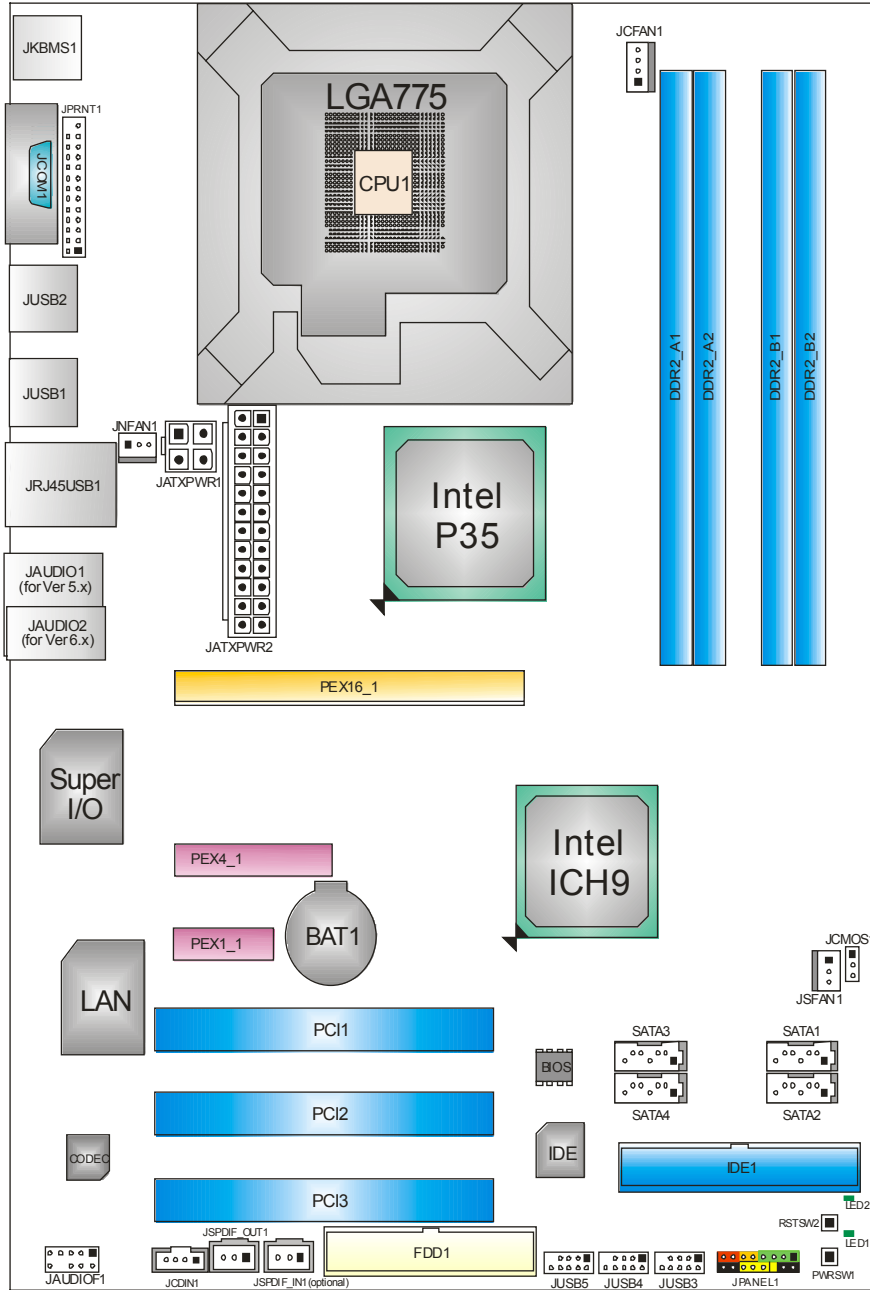
1.4 REAR PANEL CONNECTORS (FOR VER 5.x)



1.5 REAR PANEL CONNECTORS (FOR VER 6.x)



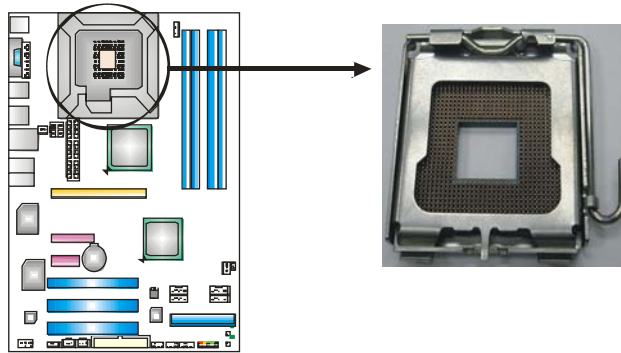
1.6 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

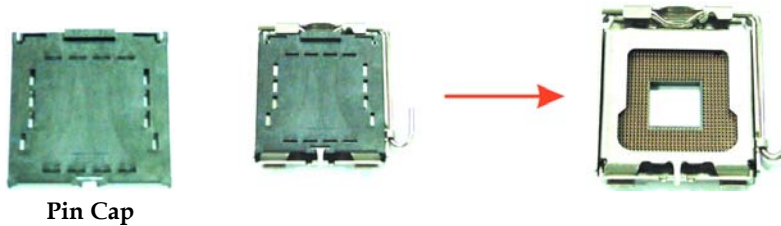
CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

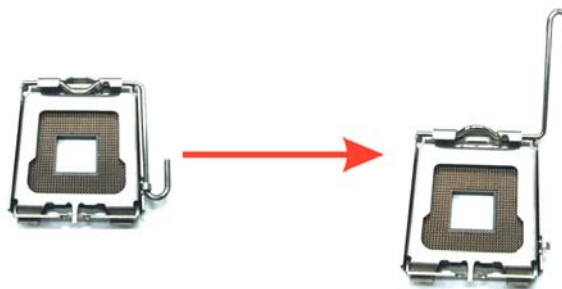


Special Notice:

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.

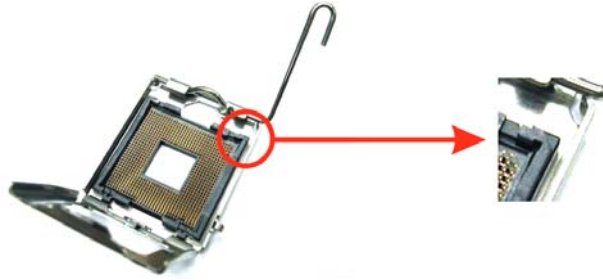


Step 1: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.

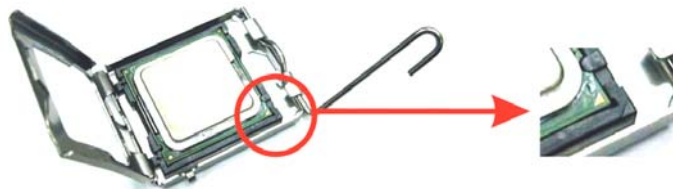


Step 2: Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.

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.

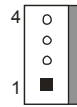
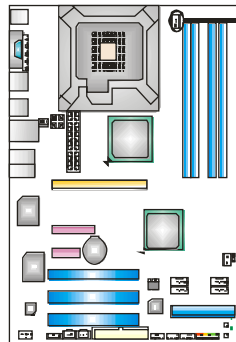


Step 4: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

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.

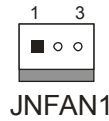
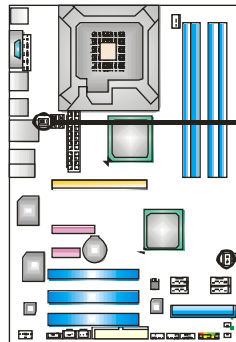
JCFAN1: CPU Fan Header



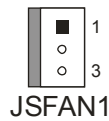
| Pin | Assignment |
|-----|--------------------|
| 1 | Ground |
| 2 | +12V |
| 3 | FAN RPM rate sense |
| 4 | Smart Fan Control |

JSFAN1: System Fan Header

JNFAN1: Northbridge Fan Header



| Pin | Assignment |
|-----|--------------------|
| 1 | Ground |
| 2 | +12V |
| 3 | FAN RPM rate sense |

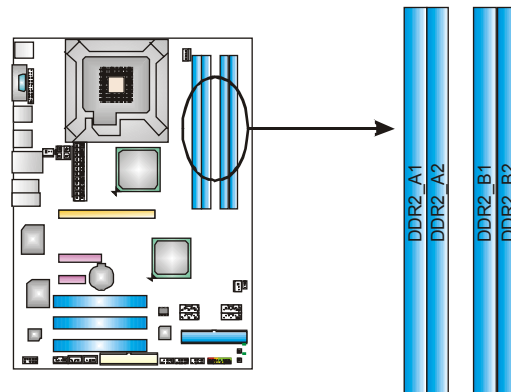


Note:

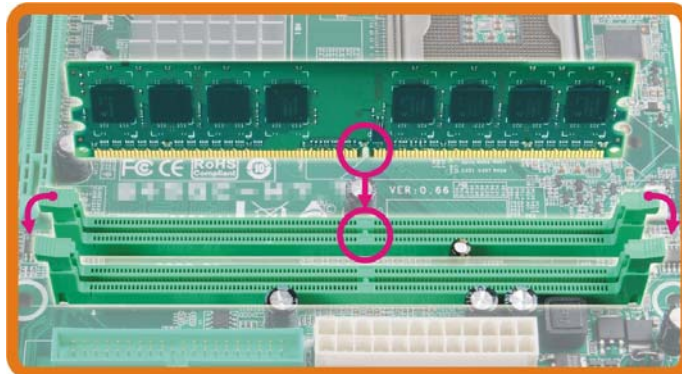
The JNFAN1/JSFAN1 support 3-pin head connectors, and the JCFAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

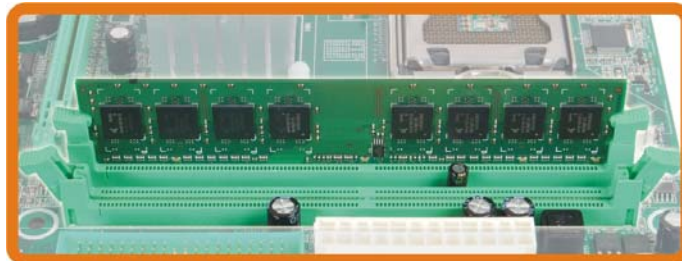
A. Memory Modules



1. Unlock a DIMM slot by pressing the retaining clips 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 | DDR Module | Total Memory Size |
|----------------------|---------------------|-------------------|
| DDR2_A1 | 256MB/512MB/1GB/2GB | Max is 8GB. |
| DDR2_A2 | 256MB/512MB/1GB/2GB | |
| DDR2_B1 | 256MB/512MB/1GB/2GB | |
| DDR2_B2 | 256MB/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 | DDR2_A1 | DDR2_A2 | DDR2_B1 | DDR2_B2 |
|---------------------|---------|---------|---------|---------|
| Enabled | O | X | O | X |
| Enabled | X | O | X | O |
| Enabled | O | O | O | O |

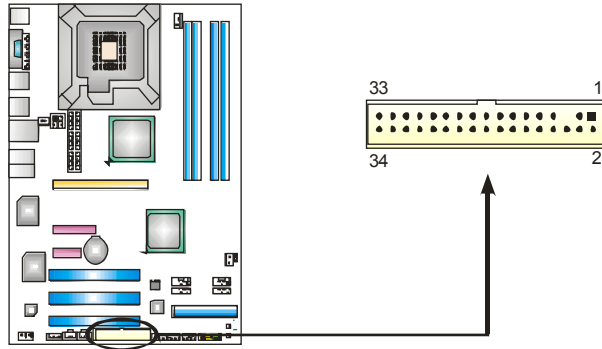
(O means memory installed, X means memory not installed.)

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

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

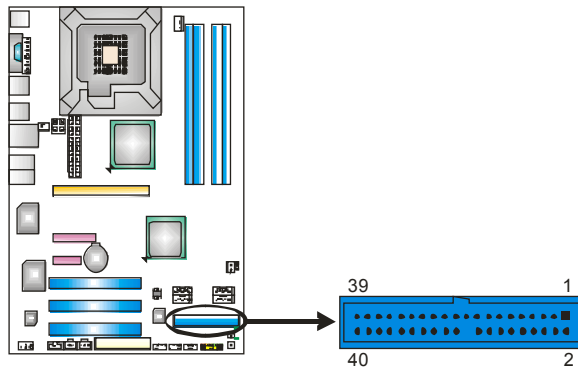
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



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.



PEX16_1: PCI-Express x16 Slot

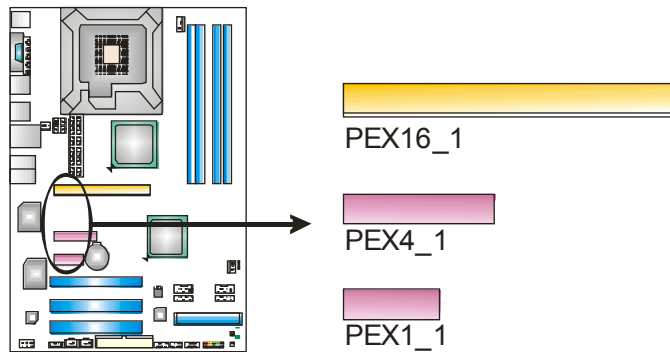
- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

PEX4_1: PCI-Express x4 Slot

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 1GB/s simultaneously per direction, for an aggregate of 2GB/s totally.

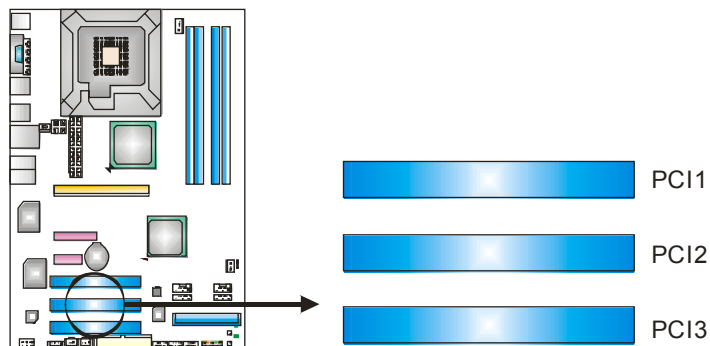
PEX1_1: PCI-Express x1 Slot

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



PCI1~PCI3: Peripheral Component Interconnect Slots

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

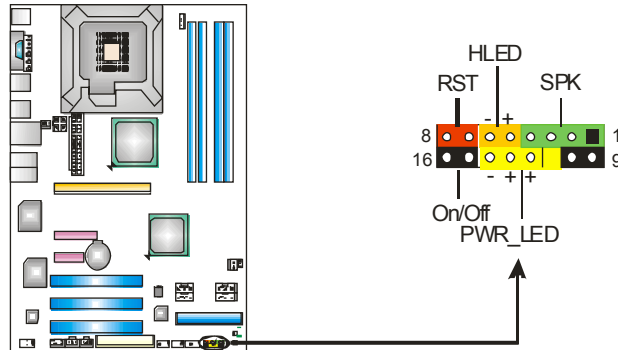
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

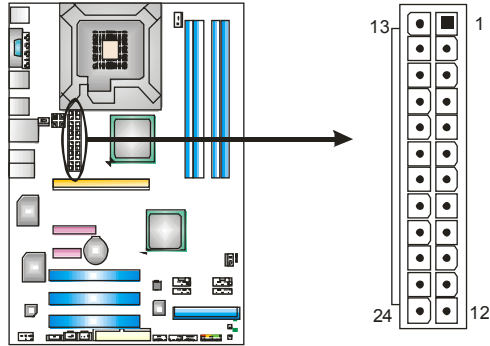
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



| Pin | Assignment | Function | Pin | Assignment | Function |
|-----|---------------|-------------------|-----|---------------|-----------|
| 1 | +5V | Speaker Connector | 9 | N/A | N/A |
| 2 | N/A | | 10 | N/A | N/A |
| 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 (-) | |
| 7 | Ground | | 15 | Power button | |
| 8 | Reset control | | 16 | Ground | |

JATXPWR2: ATX Power Source Connector

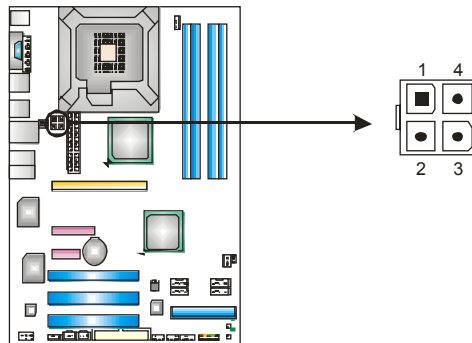
JATXPWR2 allows user to connect 24-pin power connector on the ATX power supply.



| 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

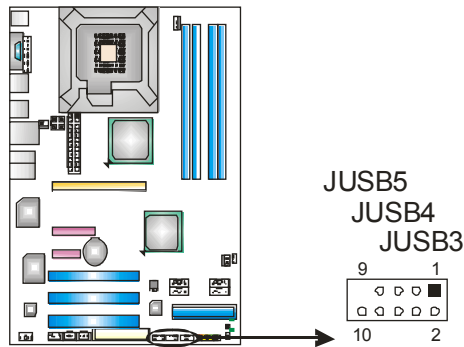
By connecting this connector, it will provide +12V to CPU power circuit.



| Pin | Assignment |
|-----|------------|
| 1 | +12V |
| 2 | +12V |
| 3 | Ground |
| 4 | Ground |

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

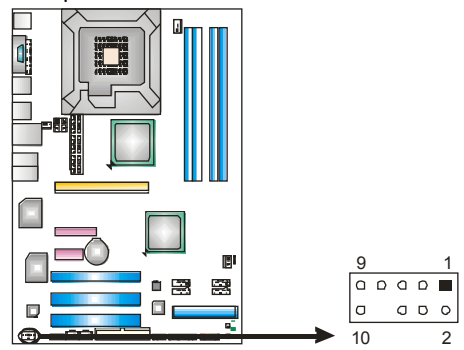
This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



| 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

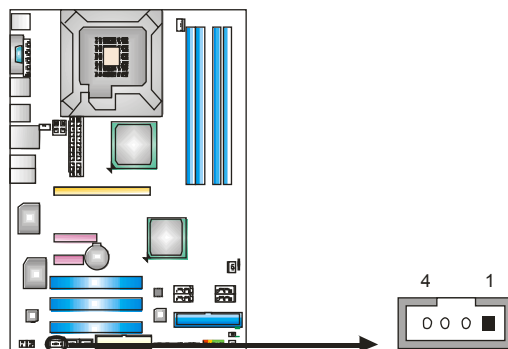
This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector; AC'97 connector is not acceptable.



| 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

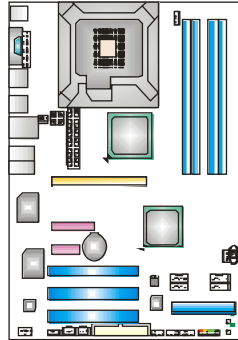
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



| 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.



Pin 1-2 Close:
Normal Operation (default).



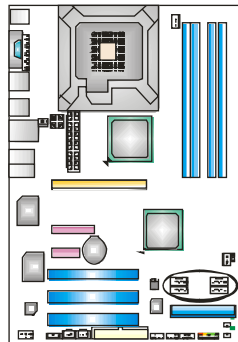
Pin 2-3 Close:
Clear CMOS data.

※ Clear CMOS Procedures:

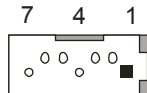
1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

SATA1~SATA4: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 4 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



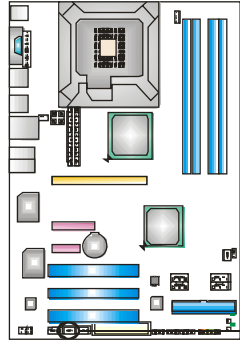
SATA3 SATA1
SATA4 SATA2



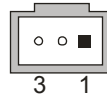
| Pin | Assignment |
|-----|------------|
| 1 | Ground |
| 2 | TX+ |
| 3 | TX- |
| 4 | Ground |
| 5 | RX- |
| 6 | RX+ |
| 7 | Ground |

JSPDIF_OUT1: Digital Audio-out Connector

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

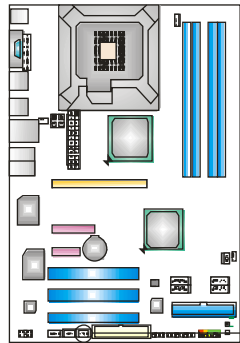


| Pin | Assignment |
|-----|------------|
| 1 | +5V |
| 2 | SPDIF_OUT |
| 3 | Ground |

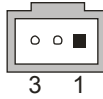


JSPDIF_IN1: Digital Audio-in Connector (Optional)

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

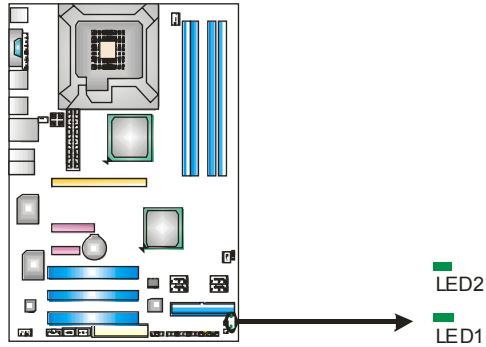


| Pin | Assignment |
|-----|------------|
| 1 | +5V |
| 2 | SPDIF_IN |
| 3 | Ground |



On-Board LED Indicators

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



LED1 and LED2:

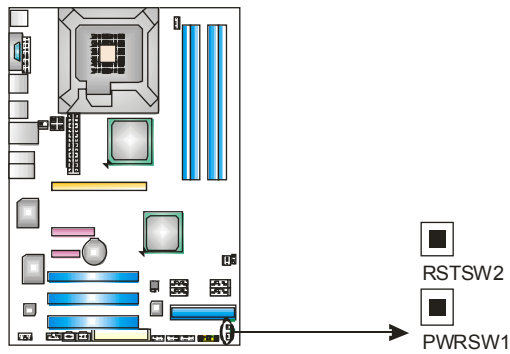
These 2 LED indicate system power on diagnostics.

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:

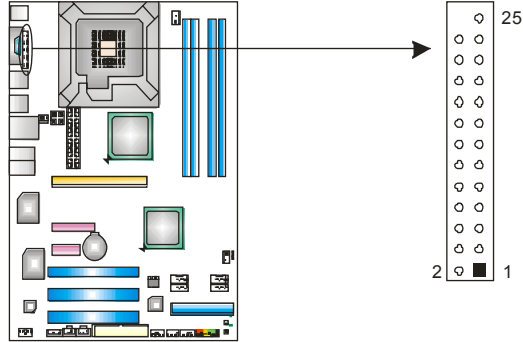
This is an on-board Power Switch button.

RSTSW2:

This is an on-board Reset button.

JPRNT1: Printer Port Connector

This header allows you to connect 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 |

CHAPTER 4: T-SERIES BIOS & SOFTWARE

4.1 T-SERIES BIOS

T-Series 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)
- Smart Fan Function (under PC Health Status)

!! WARNING !!

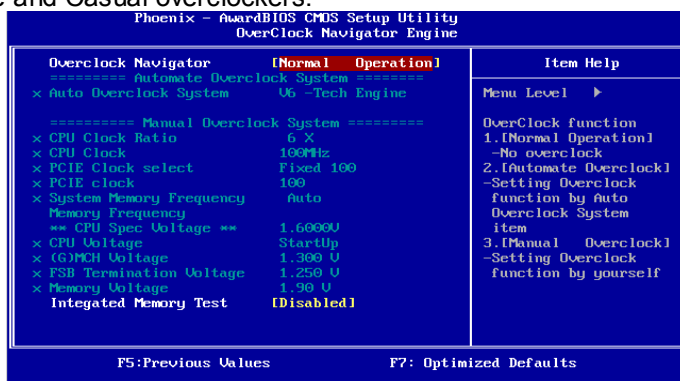
For better system performance, the BIOS firmware is being continuously updated. The BIOS information described below in this manual is for your reference only and the actual BIOS information and settings on board may be different from this manual. For further information of setting up the BIOS, please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

NOTE

Overclock is an optional process, but not a “must-do” process; it is not recommended for inexperienced users. Therefore, we will not be responsible for any hardware damage which may be caused by overclocking. We also would not guarantee any overclocking performance.

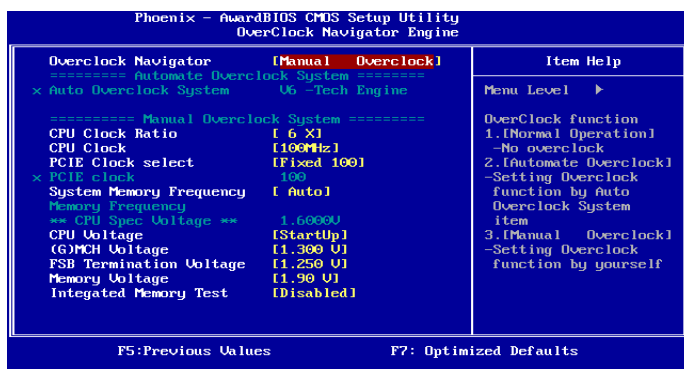
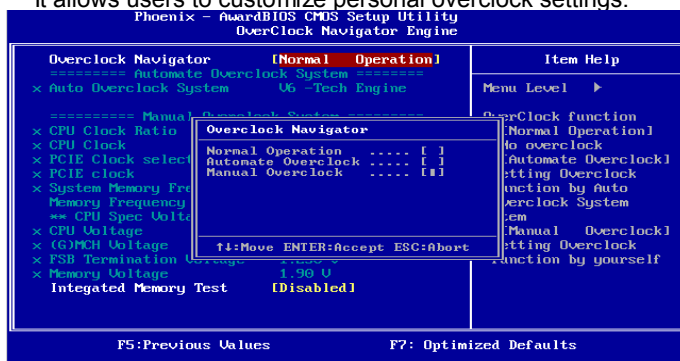
A. Overclocking Navigator Engine (O.N.E.)

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 Ratio & CPU Clock

CPU Clock Ratio x CPU Clock = CPU Frequency. CPU Frequency is directly in proportion to system performance. To maintain the system stability, CPU voltage needs to be increased also when raising CPU frequency.

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.

CPU Voltage

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

(G)MCH Voltage

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

FSB Termination Voltage

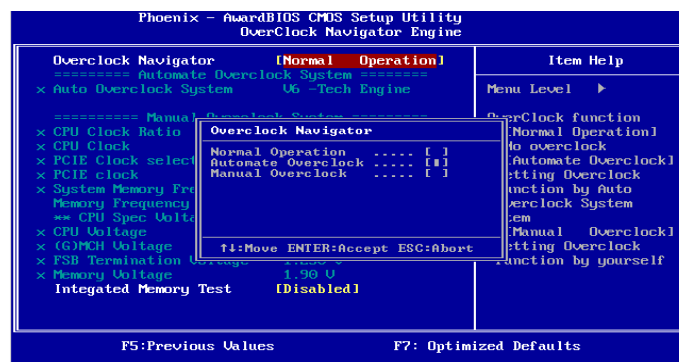
This function will increase chipset stability when overclocking.

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 engine will make a good over-clock performance.

```

Phoenix - AwardBIOS CMOS Setup Utility
OverClock Navigator Engine

Overclock Navigator [Automate Overclock]
Automate Overclock System
Auto Overclock System [V6 -Tech Engine]

===== Manual Overclock System =====
x CPU Clock Ratio      6 X
x CPU Clock            100MHz
x PCIE Clock select    Fixed 100
x PCIE clock           100
x System Memory Frequency
Memory Frequency
** CPU Spec Voltage ** 1.6000U
x CPU Voltage          StartUp
x (G)MCH Voltage       1.300 U
x FSB Termination Voltage 1.250 U
x Memory Voltage       1.90 U
Integrated Memory Test [Disabled]

Item Help
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
    
```

V8 Tech Engine

This engine will make a better over-clock performance.

```

Phoenix - AwardBIOS CMOS Setup Utility
OverClock Navigator Engine

Overclock Navigator [Automate Overclock]
Automate Overclock System
Auto Overclock System [V8 -Tech Engine]

===== Manual Overclock System =====
x CPU Clock Ratio      6 X
x CPU Clock            100MHz
x PCIE Clock select    Fixed 100
x PCIE clock           100
x System Memory Frequency
Memory Frequency
** CPU Spec Voltage ** 1.6000U
x CPU Voltage          StartUp
x (G)MCH Voltage       1.300 U
x FSB Termination Voltage 1.250 U
x Memory Voltage       1.90 U
Integrated Memory Test [Disabled]

Item Help
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
    
```

V12 Tech Engine

This engine will make a best over-clock performance.

```

Phoenix - AwardBIOS CMOS Setup Utility
OverClock Navigator Engine

Overclock Navigator [Automate Overclock]
Automate Overclock System
Auto Overclock System [V12-Tech Engine]

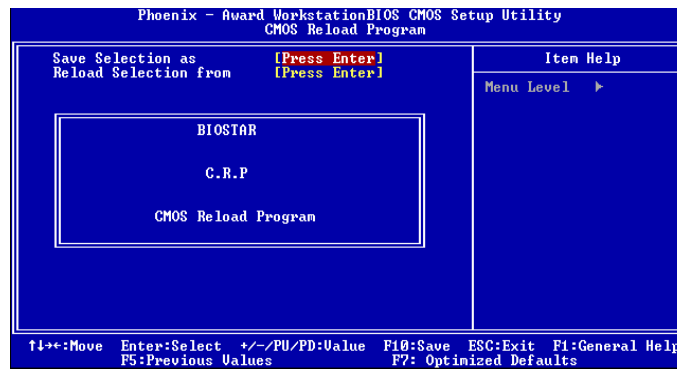
===== Manual Overclock System =====
x CPU Clock Ratio      6 X
x CPU Clock            100MHz
x PCIE Clock select    Fixed 100
x PCIE clock           100
x System Memory Frequency
Memory Frequency
** CPU Spec Voltage ** 1.6000U
x CPU Voltage          StartUp
x (G)MCH Voltage       1.300 U
x FSB Termination Voltage 1.250 U
x Memory Voltage       1.90 U
Integrated Memory Test [Disabled]

Item Help
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
    
```

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.

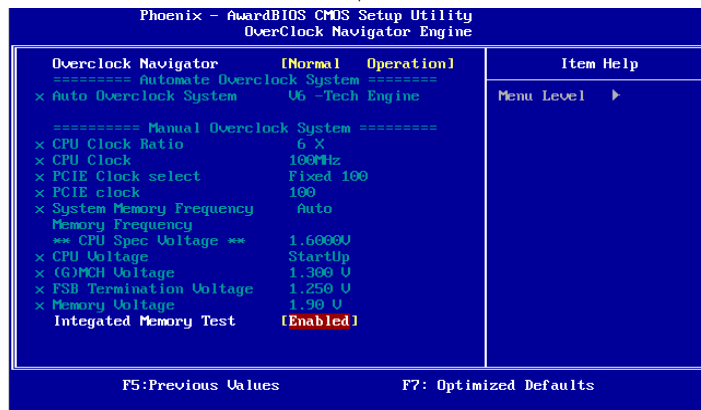
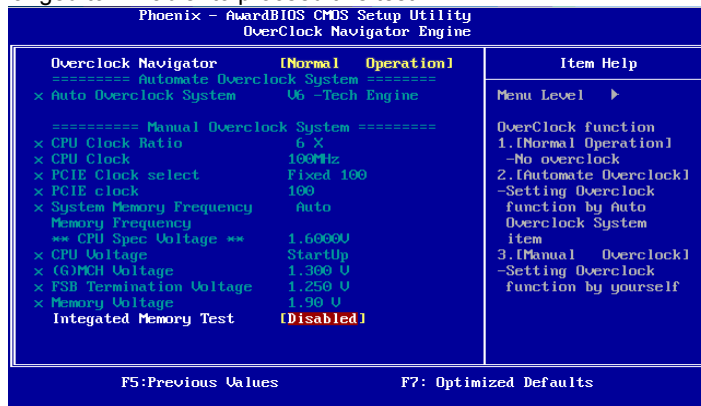


C. Memory Integration Test (M.I.T.)

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.



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 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 the website 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.

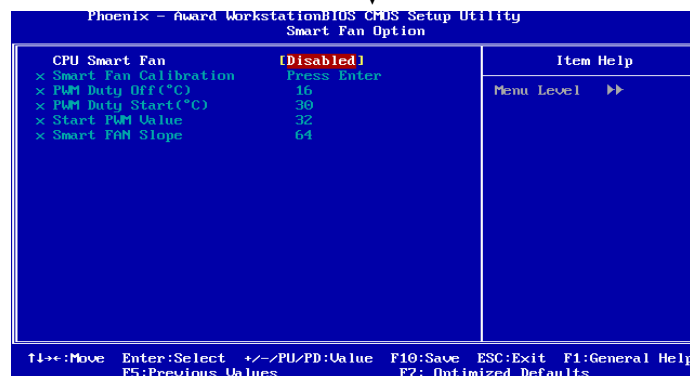
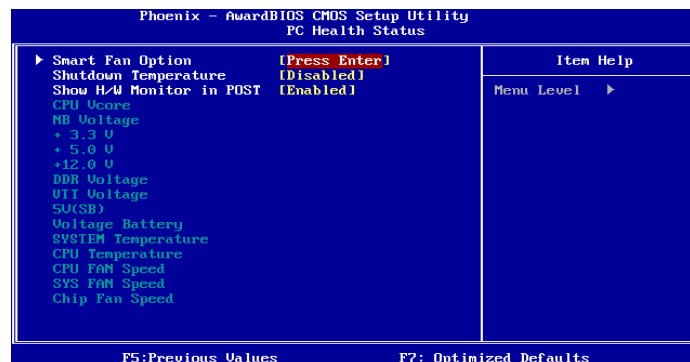
F. Smart Fan Function

Smart Fan Function is under “Smart Fan Option” in “PC Health Status”.

This is a brilliant feature to control CPU/System Temperature vs. Fan speed.

When enabling Smart Fan function, Fan speed is controlled automatically by CPU/System temperature.

This function will protect CPU/System from overheat problem and maintain the system temperature at a safe level.



Smart Fan Calibration

Choose this item and then the BIOS will automatically test and detect the CPU/System fan functions and show CPU/System fan speed.

PWM Duty Off <°C>

If the CPU/System temperature is lower than the set value, the CPU/System fan will turn off. The range is from 0°C~127°C, with an interval of 1°C.

PWM Duty Start <°C>

The CPU/System fan starts to work when CPU/System temperature arrives to this set value. The range is from 0°C~127°C, with an interval of 1°C.

Start PWM Value

When CPU/System temperature arrives to the set value, the CPU/System fan will work under Smart Fan Function mode. The range is from 0~127, with an interval of 1.

Smart Fan Slope

Increasing the value of slope PWM will raise the speed of CPU/System fan. The range is from 1~127, with an interval of 1.

4.2 T-SERIES SOFTWARE

Installing T-Series Software

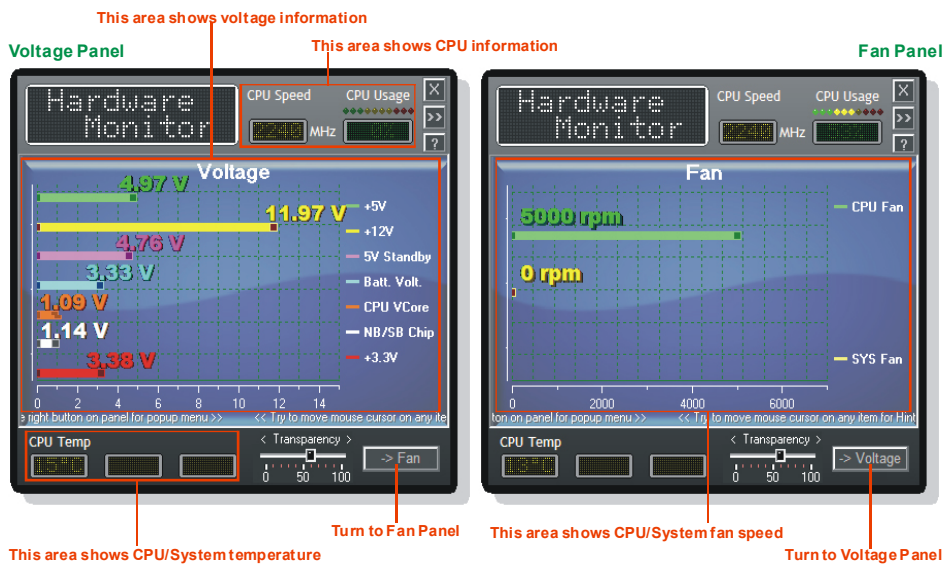
1. Insert the Setup CD to the optical drive. The drivers installation program would appear if the Autorun function has been enabled.
2. Select **Software Installation**, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

Launching T-Series Software

After the installation process, you will see the software icon “HW Monitor”/ “eHOT Line” / “Tseries BIOS Update” appears on the desktop. Double-click the icon to launch T-Series utility.

Hardware Monitor

HW Monitor is a monitor utility that helps you to maintain the health of the PC. It provides real-time information of CPU/GPU/System temperature, fan speed, and voltage.



eHot-Line (Optional)

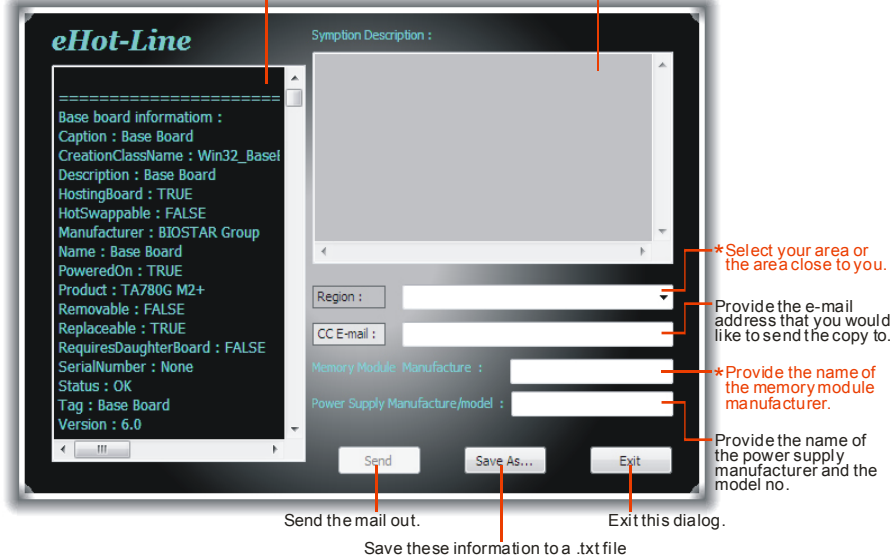
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

 Before you use this utility, please set Outlook Express as your default e-mail client application program.

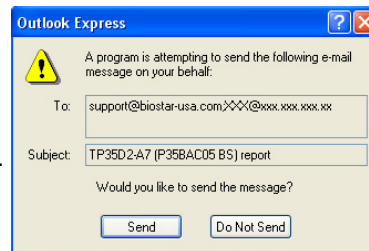
* represents important information that you must provide. Without this information, you may not be able to send out the mail.

This block will show the information which would be collected in the mail.

* Describe condition of your system.

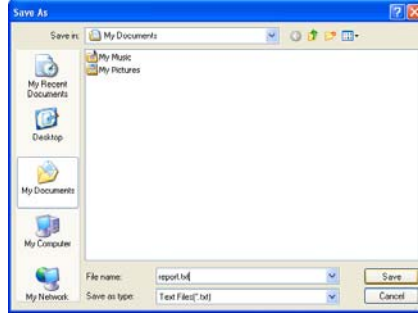


After filling up this information, click **“Send”** to send the mail out. A warning dialog would appear asking for your confirmation; click **“Send”** to confirm or **“Do Not Send”** to cancel.



If you want to save this information to a .txt file, click **“Save As...”** and then you will see a saving dialog appears asking you to enter file name.

Enter the file name and then click “Save”. Your system information will be saved to a .txt file.



Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/ device/OS information. This information is also included in the sent mail.



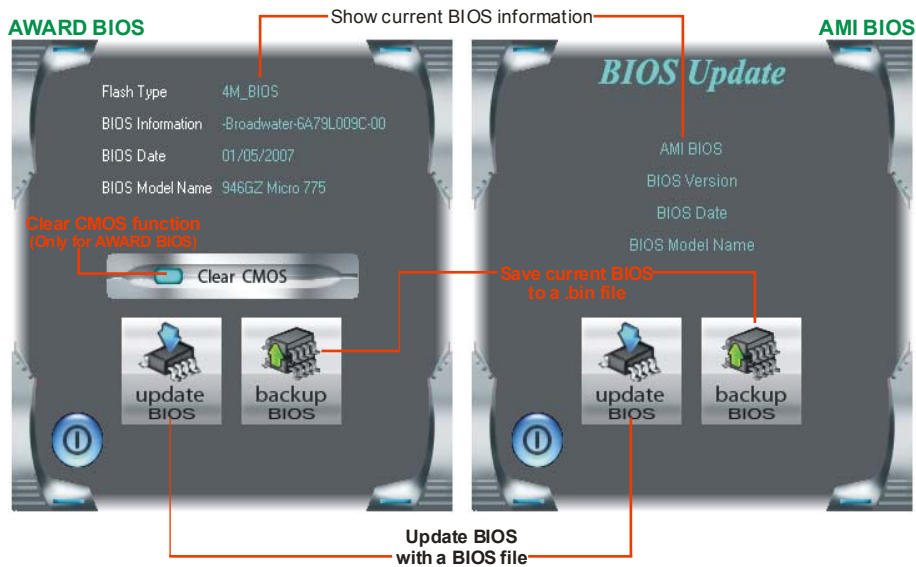
We will not share customer’s data with any other third parties, so please feel free to provide your system information while using eHot-Line service.



If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web <http://www.biostar.com.tw/app/en-us/about/contact.php> for getting our contact information.

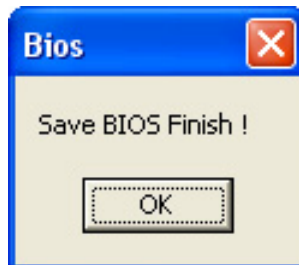
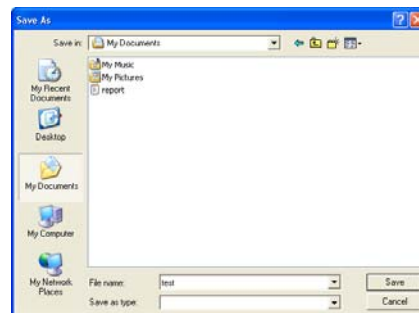
BIOS Update

BIOS Update is a convenient utility which allows you to update your motherboard BIOS under Windows system.



<Backup BIOS>

Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.

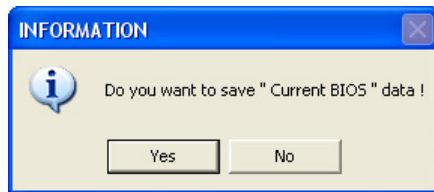


After the saving process, finish dialog will show. Click on **OK** to complete the BIOS Backup procedure.

<Update BIOS>

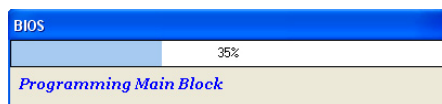
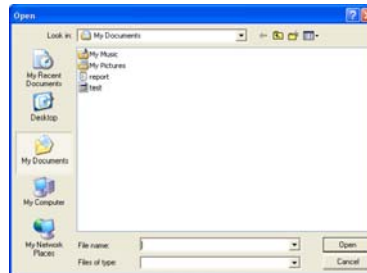
Before doing this, please download the proper BIOS file from the website.

For AWARD BIOS, update BIOS procedure should be run with Clear CMOS function, so please check on Clear CMOS first.



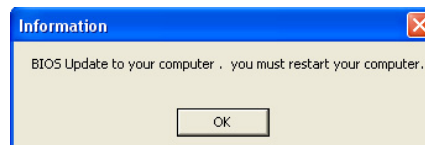
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


After the BIOS Backup procedure, the open dialog will show for requesting the BIOS file which is going to be updated. Please choose the proper BIOS file for updating, then click on **Open**.



The utility will update BIOS with the proper BIOS file, and this process may take minutes. Please do not open any other applications during this process.

After the BIOS Update process, click on **OK** to restart the system.



While the system boots up and the full screen logo shows, press  <Delete> key to enter BIOS setup.

In the BIOS setup, use the **Load Optimized Defaults** function and then **Save and Exit Setup** to exit BIOS setup. BIOS Update is completed.



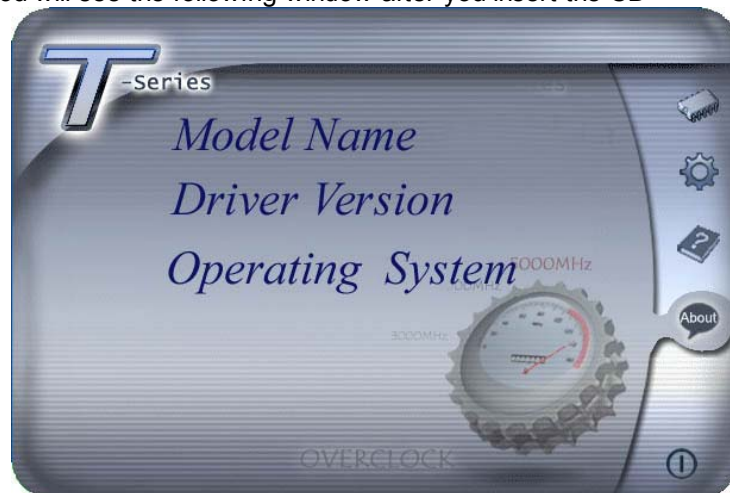
All the information and content above about the T-Series software are subject to be changed without notice. For better performance, the software is being continuously updated. The information and pictures described above are for your reference only. The actual information and settings on board may be slightly different from this manual.

CHAPTER 5: USEFUL HELP

5.1 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>

5.2 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 |

5.3 EXTRA INFORMATION

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.

5.4 TROUBLESHOOTING

| Probable | Solution |
|---|---|
| <ol style="list-style-type: none"> 1. No power to the system at all. Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on keyboard does not turn on. | <ol style="list-style-type: none"> 1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support. |
| <p>System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.</p> | <p>Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.</p> |
| <p>System does not boot from hard disk drive, can be booted from optical drive.</p> | <ol style="list-style-type: none"> 1. 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. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time. |
| <p>System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.</p> | <ol style="list-style-type: none"> 1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks. |
| <p>Screen message says "Invalid Configuration" or "CMOS Failure."</p> | <p>Review system's equipment. Make sure correct information is in setup.</p> |
| <p>Cannot boot system after installing second hard drive.</p> | <ol style="list-style-type: none"> 1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives. |

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APPENDENCIES: SPEC IN OTHER LANGUAGE

GERMAN

| | <i>Ver 5.x</i> | <i>Ver 6.x</i> |
|-----------------|--|--|
| CPU | LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D / Celeron 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 / Celeron D Prozessoren Unterstützt Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology |
| FSB | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Chipsatz | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| Super E/A | ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller/-Überwachung "Smart Guardian"-Funktion von ITE | ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller/-Überwachung "Smart Guardian"-Funktion von ITE |
| Arbeitsspeicher | DDR2 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 256MB / 512MB / 1GB / 2GB DDR2. Max. 8GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 800 / 667 Unterstützt DDR2 533 (w. FSB 533/1066 CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt. | DDR2 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 256MB / 512MB / 1GB / 2GB DDR2. Max. 8GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 800 / 667 Unterstützt DDR2 533 (w. FSB 533/1066 CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt. |
| IDE | JMicro JMB368 Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4, | JMicro JMB368 Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4, |
| SATA | Integrierter Serial ATA-Controller Datentransferate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0. | Integrierter Serial ATA-Controller Datentransferate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0. |

| | Ver 5.x | Ver 6.x |
|-------------------------------|---|---|
| LAN | Realtek RTL 8110SC / RTL 8100C(optional) 10 / 100 / 1000 Mb/s Auto-Negotiation (Gigabit-Bandbreite nur beim RTL 8110SC) Halb-/ Vollduplex-Funktion | Realtek RTL 8110SC / RTL 8100C(optional) 10 / 100 / 1000 Mb/s Auto-Negotiation (Gigabit-Bandbreite nur beim RTL 8110SC) Halb-/ Vollduplex-Funktion |
| HD Audio-Unters tützung | ALC888 Unterstützt High-Definition Audio 7.1-Kanal-Audioausgabe | ALC662 Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe |
| Steckplätze | PCI-Steckplatz x3 PCI Express x16 Steckplatz x1 PCI Express x4 Steckplatz x1 PCI Express x 1-Steckplatz x1 | PCI-Steckplatz x3 PCI Express x16 Steckplatz x1 PCI Express x4 Steckplatz x1 PCI Express x 1-Steckplatz x1 |
| Onboard-Ans chluss | Diskettenlaufwerkanschluss x1 Druckeranschluss Anschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 CD-IN-Anschluss x1 S/PDIF- Ausgangsanschluss x1 S/PDIF Eingangsanschluss(optional) x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x2 "CMOS löschen"-Sockel x1 USB-Anschluss x3 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1 | Diskettenlaufwerkanschluss x1 Druckeranschluss Anschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 CD-IN-Anschluss x1 S/PDIF- Ausgangsanschluss x1 S/PDIF Eingangsanschluss(optional) x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x2 "CMOS löschen"-Sockel x1 USB-Anschluss x3 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1 |
| Rückseiten-E /A | PS/2-Tastatur x1 PS/2-Maus x1 Serieller Anschluss x1 LAN-Anschluss x1 USB-Anschluss x6 Audioanschluss x6 | PS/2-Tastatur x1 PS/2-Maus x1 Serieller Anschluss x1 LAN-Anschluss x1 USB-Anschluss x6 Audioanschluss x3 |
| Platinengröße | 220 mm (B) X 305 mm (L) | 220 mm (B) X 305 mm (L) |
| OS-Unterstüt zung | 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 / Celeron 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 / Celeron 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 | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Chipset | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| 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 "Gardien 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 "Gardien intelligent" de l'ITE |
| Mémoire principale | Fentes DDR2 DIMM x 4 Chaque DIMM prend en charge des DDR2 de 256Mo / 512Mo / 1Go / 2Go Capacité mémoire maximale de 8Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 800 / 667 Prend en charge la DDR2 533 (w. FSB 533/1066 CPU) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge | Fentes DDR2 DIMM x 4 Chaque DIMM prend en charge des DDR2 de 256Mo / 512Mo / 1Go / 2Go Capacité mémoire maximale de 8Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 800 / 667 Prend en charge la DDR2 533 (w. FSB 533/1066 CPU) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge |
| IDE | JMicro JMB368 Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4, | JMicro JMB368 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 |

TP35D2-A7 SE

| | | Ver 5.x | Ver 6.x |
|--------------------------|--|--|----------------|
| LAN | Realtek RTL 8110SC / RTL 8100C(optional) 10 / 100 / 1000 Mb/s négociation automatique (La bande passante Gigabit est pour le RTL 8110SC uniquement) Half / Full duplex capability | Realtek RTL 8110SC / RTL 8100C(optional) 10 / 100 / 1000 Mb/s négociation automatique (La bande passante Gigabit est pour le RTL 8110SC uniquement) Half / Full duplex capability | |
| Prise en charge audio HD | ALC888 Prise en charge de l'audio haute définition Sortie audio à 7.1 voies | ALC662 Prise en charge de l'audio haute définition Sortie audio à 5.1 voies | |
| Fentes | Fente PCI x3 Fente PCI Express x16 x1 Fente PCI Express x4 x1 Fente PCI Express x1 x1 | Fente PCI x3 Fente PCI Express x16 x1 Fente PCI Express x4 x1 Fente PCI Express x1 x1 | |
| Connecteur embarqué | Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x4 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 Embase de ventilateur UC x1 Embase de ventilateur système x2 Embase d'effacement CMOS x1 Connecteur USB x3 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 | Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x4 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 Embase de ventilateur UC x1 Embase de ventilateur système x2 Embase d'effacement CMOS x1 Connecteur USB x3 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 | |
| E/S du panneau arrière | Clavier PS/2 x1 Souris PS/2 x1 Port série x1 Port LAN x1 Port USB x6 Fiche audio x6 | Clavier PS/2 x1 Souris PS/2 x1 Port série x1 Port LAN x1 Port USB x6 Fiche audio x3 | |
| Dimensions de la carte | 220 mm (l) X 305 mm (H) | 220 mm (l) X 305 mm (H) | |
| 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 Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D / Celeron D Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization | LGA 775 Processore Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D / Celeron D Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization |
| FSB | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Chipset | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| 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 DDR2 x 4 Ciascun DIMM supporta DDR2 256MB / 512MB / 1GB / 2GB Capacità massima della memoria 8GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 800 / 667 Supporto di DDR2 533 (w. FSB 533/1066 CPU) DIMM registrati e DIMM ECC non sono supportati | Alloggi DIMM DDR2 x 4 Ciascun DIMM supporta DDR2 256MB / 512MB / 1GB / 2GB Capacità massima della memoria 8GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 800 / 667 Supporto di DDR2 533 (w. FSB 533/1066 CPU) DIMM registrati e DIMM ECC non sono supportati |
| IDE | JMicro JMB368 Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4 | JMicro JMB368 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. |

| | | Ver 5.x | Ver 6.x |
|------------------------------|---|---|---|
| LAN | Realtek RTL 8110SC / RTL 8100C(optional) Negoziazione automatica 10 / 100 / 1000 Mb/s (la larghezza di banda Gigabit è solo per RTL 8110SC) Capacità Half / Full Duplex | Realtek RTL 8110SC / RTL 8100C(optional) Negoziazione automatica 10 / 100 / 1000 Mb/s (la larghezza di banda Gigabit è solo per RTL 8110SC) Capacità Half / Full Duplex | Realtek RTL 8110SC / RTL 8100C(optional) Negoziazione automatica 10 / 100 / 1000 Mb/s (la larghezza di banda Gigabit è solo per RTL 8110SC) Capacità Half / Full Duplex |
| Supporto audio HD | ALC888 Supporto audio High-Definition (HD) Uscita audio 7.1 canali | ALC662 Supporto audio High-Definition (HD) Uscita audio 5.1 canali | ALC662 Supporto audio High-Definition (HD) Uscita audio 5.1 canali |
| Alloggi | Alloggio PCI x3 Alloggio PCI Express x16 x1 Alloggio PCI Express x4 x1 Alloggio PCI Express x1 x1 | Alloggio PCI x3 Alloggio PCI Express x16 x1 Alloggio PCI Express x4 x1 Alloggio PCI Express x1 x1 | Alloggio PCI x3 Alloggio PCI Express x16 x1 Alloggio PCI Express x4 x1 Alloggio PCI Express x1 x1 |
| Connettori su scheda | Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x4 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 alimentazione x1 (24 pin) Connettore alimentazione x1 (4 pin) | Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x4 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 alimentazione x1 (24 pin) Connettore alimentazione x1 (4 pin) | Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x4 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 alimentazione x1 (24 pin) Connettore alimentazione x1 (4 pin) |
| I/O pannello posteriore | Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB x6 Connettore audio x6 | Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB x6 Connettore audio x3 | Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB x6 Connettore audio x3 |
| Dimensioni scheda | 220 mm (larghezza) x 305 mm (altezza) | 220 mm (larghezza) x 305 mm (altezza) | 220 mm (larghezza) x 305 mm (altezza) |
| 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. | 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 / Celeron 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 / Celeron D Admite Hyper-Threading / Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización |
| FSB | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Conjunto de chips | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| 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 "Guardia 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 "Guardia inteligente" de ITE |
| Memoria principal | Ranuras DIMM DDR2 x 4 Cada DIMM admite DDR de 256MB / 512MB / 1GB / 2GB Capacidad máxima de memoria de 8GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 800 / 667 Admite DDR2 de 533 (w. FSB 533/1066 CPU) No admite DIMM registrados o DIMM compatibles con ECC | Ranuras DIMM DDR2 x 4 Cada DIMM admite DDR de 256MB / 512MB / 1GB / 2GB Capacidad máxima de memoria de 8GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 800 / 667 Admite DDR2 de 533 (w. FSB 533/1066 CPU) No admite DIMM registrados o DIMM compatibles con ECC |
| IDE | JMicro JMB368 Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4, | JMicro JMB368 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 | Realtek RTL 8110SC / RTL 8100C (opcional) Negociación de 10 / 100 / 1000 Mb/s (el ancho de banda Gigabit es únicamente para 8110SC) Funciones Half / Full dúplex | Realtek RTL 8110SC / RTL 8100C (opcional) Negociación de 10 / 100 / 1000 Mb/s (el ancho de banda Gigabit es únicamente para 8110SC) Funciones Half / Full dúplex |

TP35D2-A7 SE

| | | Ver 5.x | Ver 6.x |
|--|--|---|--|
| Soporte de sonido HD | ALC888 | | ALC662 |
| | Soporte de sonido de Alta Definición Salida de sonido de 7.1 canales | | Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales |
| Ranuras | Ranura PCI | X3 | Ranura PCI X3 |
| | Ranura PCI Express x16 | X1 | Ranura PCI Express x16 X1 |
| | Ranura PCI Express x4 | X1 | Ranura PCI Express x4 X1 |
| | Ranura PCI express x 1 | X1 | Ranura PCI express x 1 X1 |
| 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 | X4 | Conector SATA X4 |
| | 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 de alimentación (24 patillas) | X1 | Conector de alimentación (24 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 serie | X1 | Puerto serie X1 |
| | Puerto de red local | X1 | Puerto de red local X1 |
| | Puerto USB | X6 | Puerto USB X6 |
| | Conector de sonido | X6 | Conector de sonido X3 |
| Tamaño de la placa | 220 mm. (A) X 305 Mm. (H) | 220 mm. (A) X 305 Mm. (H) | |
| Soporte de sistema operativo | Windows 2000 / XP / VISTA | | Windows 2000 / XP / VISTA |
| | Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo. | | Biostar 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 / Celeron 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 / Celeron D Suporta as tecnologias Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization |
| FSB | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Chipset | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| 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 DDR2 x 4 Cada módulo DIMM suporta uma memória DDR2 de 256 MB / 512 MB / 1GB / 2GB Capacidade máxima de memória:8 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 800 / 667 Suporta módulos DDR2 533 (w. FSB 533/1066 CPU) Os módulos DIMM registados e os DIMM ECC não são suportados | Ranuras DIMM DDR2 x 4 Cada módulo DIMM suporta uma memória DDR2 de 256 MB / 512 MB / 1GB / 2GB Capacidade máxima de memória:8 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 800 / 667 Suporta módulos DDR2 533 (w. FSB 533/1066 CPU) Os módulos DIMM registados e os DIMM ECC não são suportados |
| IDE | JMicro JMB368 Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4, | JMicro JMB368 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 | Realtek RTL 8110SC / RTL 8100C(opcional) Auto negociação de 10 / 100 / 1000 Mb/s (a largura de banda Gigabit refere-se apenas à especificação RTL 8110SC) Capacidade semi/full-duplex | Realtek RTL 8110SC / RTL 8100C(opcional) Auto negociação de 10 / 100 / 1000 Mb/s (a largura de banda Gigabit refere-se apenas à especificação RTL 8110SC) Capacidade semi/full-duplex |

| | | Ver 5.x | Ver 6.x |
|--------------------------------------|--|-----------------------------------|--|
| Suporte para áudio de alta definição | ALC888 | | ALC662 |
| | Suporta a especificação High-Definition Audio Saída de áudio de 7.1 canais | | Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais |
| Ranhuras | Ranhura PCI | x3 | Ranhura PCI |
| | Ranhura PCI Express x16 | x1 | Ranhura PCI Express x16 |
| | Ranhura PCI Express x4 | x1 | Ranhura PCI Express x4 |
| | Ranhura PCI Express x 1 | x1 | Ranhura PCI Express x 1 |
| Conectores na placa | Conector da unidade de disquetes | x1 | Conector da unidade de disquetes |
| | Conector da para impressora | x1 | Conector da para impressora |
| | Conector IDE | x1 | Conector IDE |
| | Conector SATA | x4 | Conector SATA |
| | Conector do painel frontal | x1 | Conector do painel frontal |
| | Conector de áudio frontal | x1 | Conector de áudio frontal |
| | Conector para entrada de CDs | x1 | Conector para entrada de CDs |
| | Conector de saída S/PDIF | x1 | Conector de saída S/PDIF |
| | Conector de entrada S/PDIF(opcional) | x1 | Conector de entrada S/PDIF(opcional) |
| | Conector da ventoinha da CPU | x1 | Conector da ventoinha da CPU |
| | Conector da ventoinha do sistema | x2 | Conector da ventoinha do sistema |
| | Conector para limpeza do CMOS | x1 | Conector para limpeza do CMOS |
| | Conector USB | x3 | Conector USB |
| | Conector de alimentação (24 pinos) | x1 | Conector de alimentação (24 pinos) |
| Conector de alimentação (4 pinos) | x1 | Conector de alimentação (4 pinos) | |
| Entradas/Saídas no painel traseiro | Teclado PS/2 | x1 | Teclado PS/2 |
| | Rato PS/2 | x1 | Rato PS/2 |
| | Porta série | x1 | Porta série |
| | Porta LAN | x1 | Porta LAN |
| | Porta USB | x6 | Porta USB |
| Tomada de áudio | x6 | Tomada de áudio | |
| Tamanho da placa | 220 mm (L) X 305 mm (A) | | 220 mm (L) X 305 mm (A) |
| 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 / Celeron 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 / Celeron D Obsługa Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology |
| FSB | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| Chipset | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| Pamięć główna | Gniazda DDR2 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 256MB / 512MB / 1GB / 2GB Maks. wielkość pamięci 8GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 800 / 667 Obsługa DDR2 533 (w. FSB 533/1066 CPU) Brak obsługi Registered DIMM oraz ECC DIMM | Gniazda DDR2 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 256MB / 512MB / 1GB / 2GB Maks. wielkość pamięci 8GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 800 / 667 Obsługa DDR2 533 (w. FSB 533/1066 CPU) Brak obsługi Registered DIMM oraz ECC DIMM |
| Super I/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 | JMicro JMB368 Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4, | JMicro JMB368 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 | Realtek RTL 8110SC / RTL 8100C (opcja) 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości (Pasma gigabitowe wyłącznie dla RTL 8110SC) Działanie w trybie półwicznego / pełnego dupleksu | Realtek RTL 8110SC / RTL 8100C (opcja) 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości (Pasma gigabitowe wyłącznie dla RTL 8110SC) Działanie w trybie półwicznego / pełnego dupleksu |

| | | Ver 5.x | | Ver 6.x | |
|------------------------------|--|----------------|--|--|----|
| Obsługa audio HD | ALC888 Obsługa High-Definition Audio 7.1 kanałowe wyjście audio | | | ALC662 Obsługa High-Definition Audio 5.1 kanałowe wyjście audio | |
| Gniazda | Gniazdo PCI | x3 | | Gniazdo PCI | x3 |
| | Gniazdo PCI Express x16 | x1 | | Gniazdo PCI Express x16 | x1 |
| | Gniazdo PCI Express x 4 | x1 | | Gniazdo PCI Express x 4 | x1 |
| | Gniazdo PCI Express x 1 | x1 | | Gniazdo PCI Express x 1 | x1 |
| Złącza wbudowane | Złącze napędu dyskietek | x1 | | Złącze napędu dyskietek | x1 |
| | Złącze Port drukarki | x1 | | Złącze Port drukarki | x1 |
| | Złącze IDE | x1 | | Złącze IDE | x1 |
| | Złącze SATA | x4 | | Złącze SATA | x4 |
| | 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 głośnikowe wentylatora procesora | x1 | | Złącze głośnikowe wentylatora procesora | x1 |
| | Złącze głośnikowe wentylatora systemowego | x2 | | Złącze głośnikowe wentylatora systemowego | x2 |
| | Złącze głośnikowe kasowania CMOS | x1 | | Złącze głośnikowe kasowania CMOS | x1 |
| | Złącze USB | x3 | | Złącze USB | x3 |
| | Złącze zasilania (24 pinowe) | x1 | | Złącze zasilania (24 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 szeregowy | x1 | | Port szeregowy | x1 |
| | Port LAN | x1 | | Port LAN | x1 |
| | Port USB | x6 | | Port USB | x6 |
| | Gniazdo audio | x6 | | Gniazdo audio | x3 |
| Wymiary płyty | 220 mm (S) X 305 mm (W) | | | 220 mm (S) X 305 mm (W) | |
| 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 / Celeron 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 / Celeron D Поддержка технологий Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация |
| FSB | 533 / 800 / 1066 / 1333 МГц 1600 МГц (with DDR2 800) | 533 / 800 / 1066 / 1333 МГц 1600 МГц (with DDR2 800) |
| Набор микросхем | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| Основная память | Слоты DDR2 DIMM x 4 Каждый модуль DIMM поддерживает 256 МБ / 512МБ / 1ГБ / 2ГБ DDR2 Максимальная ёмкость памяти 8ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 800 / 667 Поддержка DDR2 533 (w. FSB 533/1066 CPU) Не поддерживает зарегистрированные модули DIMM and ECC DIMM | Слоты DDR2 DIMM x 4 Каждый модуль DIMM поддерживает 256 МБ / 512МБ / 1ГБ / 2ГБ DDR2 Максимальная ёмкость памяти 8ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 800 / 667 Поддержка DDR2 533 (w. FSB 533/1066 CPU) 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 | JMicro JMB368 Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4, | JMicro JMB368 Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4, |
| SATA | Встроенное последовательное устройство управления ATA скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0. | Встроенное последовательное устройство управления ATA скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0. |
| Локальная сеть | Realtek RTL 8110SC / RTL 8100C (дополнительно) Автоматическое согласование 10 / 100 / 1000 | Realtek RTL 8110SC / RTL 8100C (дополнительно) Автоматическое согласование 10 / 100 / 1000 |

TP35D2-A7 SE

| | Ver 5.x | | Ver 6.x | |
|------------------------------------|---|--------------------------|---|----|
| | Мб/с (гигабитная пропускная способность только для гигабитного физического уровня) Частичная / полная дуплексная способность | | Мб/с (гигабитная пропускная способность только для гигабитного физического уровня) Частичная / полная дуплексная способность | |
| Звуковая поддержка жесткого диска | ALC888 Звуковая поддержка High-Definition 7.1канальный звуковой выход | | ALC662 Звуковая поддержка High-Definition 5.1канальный звуковой выход | |
| Слоты | Слот PCI | x3 | Слот PCI | x3 |
| | Слот PCI Express x16 | x1 | Слот PCI Express x16 | x1 |
| | Слот PCI Express x 4 | x1 | Слот PCI Express x 4 | x1 |
| | Слот PCI Express x 1 | x1 | Слот PCI Express x 1 | x1 |
| 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 | x4 | Разъем SATA | x4 |
| | 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 питания (24 вывод) | x1 | Разъем питания (24 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 |
| | Последовательный порт | x1 | Последовательный порт | x1 |
| | Порт LAN | x1 | Порт LAN | x1 |
| | USB-порт | x6 | USB-порт | x6 |
| | Гнездо для подключения наушников | x6 | Гнездо для подключения наушников | x3 |
| Размер панели | 220 мм (Ш) X 305 мм (В) | | 220 мм (Ш) X 305 мм (В) | |
| Поддержка OS | Windows 2000 / XP / VISTA Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления. | | Windows 2000 / XP / VISTA Biostar 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 Intel Core2Duo / Core2Quad / Celeron 4xx معالجات يتردد يصل إلى / Pentium 4 / Pentium D / Celeron D Hyper-Threading / Execute Disable Bit / تقنيات Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology | LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx معالجات يتردد يصل إلى / Pentium 4 / Pentium D / Celeron D Hyper-Threading / Execute Disable Bit / تقنيات Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology | وحدة المعالجة المركزية |
| ميغا هرتز 533 / 800 / 1066 / 1333 تردد ميغا هرتز 1600 (with DDR2 800) تردد | ميغا هرتز 533 / 800 / 1066 / 1333 تردد ميغا هرتز 1600 (with DDR2 800) تردد | النقل الأممي الجنبي |
| Intel P35 Intel ICH9 | Intel P35 Intel ICH9 | مجموعة الشرائح |
| عدد 4 قناة DDR2 DIMM ميغا 256/512 سعة DDR2 تدعم ذاكرة من نوع DIMM كل قناة بليت 2 و 1 جيجا بليت سعة ذاكرة قصوى 8 جيجا بليت مزوجة للقناة DDR2 لوحدة ذاكرة سعت 800 / 667 ميغا بليت DDR2 تدعم الذاكرة من نوع (w. FSB) سعت 533 ميغا بليت DDR2 تدعم الذاكرة من نوع 533/1066 CPU ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة | عدد 4 قناة DDR2 DIMM ميغا 256/512 سعة DDR2 تدعم ذاكرة من نوع DIMM كل قناة بليت 2 و 1 جيجا بليت سعة ذاكرة قصوى 8 جيجا بليت مزوجة للقناة DDR2 لوحدة ذاكرة سعت 800 / 667 ميغا بليت DDR2 تدعم الذاكرة من نوع (w. FSB) سعت 533 ميغا بليت DDR2 تدعم الذاكرة من نوع 533/1066 CPU ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة | الذاكرة الرئيسية |
| ITE 8718F الأكثر استخداماً. Super I/O وظيفة Low Pin Count Interface تدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة | ITE 8718F الأكثر استخداماً. Super I/O وظيفة Low Pin Count Interface تدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة | Super I/O |
| JMicro JMB368 متكامل IDE وضع رئيسي 33 / 66 / 100 / 133 Ultra DMA نقل بتقنية PIO Mode 0~4 دعم وضع | JMicro JMB368 متكامل IDE وضع رئيسي 33 / 66 / 100 / 133 Ultra DMA نقل بتقنية PIO Mode 0~4 دعم وضع | منفذ IDE |
| متكامل Serial ATA متحكم جيجابت/ثانية 3.0 نقل البيانات بسرعت تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات | متكامل Serial ATA متحكم جيجابت/ثانية 3.0 نقل البيانات بسرعت تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات | SATA |
| Realtek RTL 8110SC / RTL 8100C (اختياري) | Realtek RTL 8110SC / RTL 8100C (اختياري) | شبكة داخلية |

| Ver 6.x | Ver 5.x | |
|--|--|---------------------------------|
| تفاوض تلقائي 100/10 ميجابايت / ثانية و 1 جيجابايت/ثانية RTL 8110SC انطلق التردد للجيبيت مقصور فقط على إمكانية النقل المزوج الكامل/النصفي | تفاوض تلقائي 100/10 ميجابايت / ثانية و 1 جيجابايت/ثانية RTL 8110SC انطلق التردد للجيبيت مقصور فقط على إمكانية النقل المزوج الكامل/النصفي | |
| ALC662 تدعم تقنية الصوت عالي التعريف من 5.1 قنوات لخرج الصوت | ALC888 تدعم تقنية الصوت عالي التعريف من 7.1 قنوات لخرج الصوت | دعم الصوت عالي التعريف |
| عدد 3 فتحة PCI عدد 1 فتحة PCI Express x16 عدد 1 فتحة PCI Express x4 عدد 1 فتحة PCI Express x1 | عدد 3 فتحة PCI عدد 1 فتحة PCI Express x16 عدد 1 فتحة PCI Express x4 عدد 1 فتحة PCI Express x1 | الفتحات |
| عدد 1 منفذ محرك أقراص مرنة عدد 1 منفذ طابعة عدد 1 منفذ IDE عدد 4 منفذ SATA عدد 1 منفذ اللوحة الأممية عدد 1 منفذ الصوت الأممي عدد 1 منفذ CD-IN عدد 1 منفذ خرج S/PDIF عدد 1 منفذ دخل (اختياري) S/PDIF عدد 1 وصلة مروحة وحدة المعالجة المركزية عدد 2 وصلة مروحة النظام عدد 1 وصلة مسح CMOS عدد 3 منفذ USB عدد 1 منفذ توصيل الطاقة (24دبوس) عدد 1 منفذ توصيل الطاقة (4دبليس) | عدد 1 منفذ محرك أقراص مرنة عدد 1 منفذ طابعة عدد 1 منفذ IDE عدد 4 منفذ SATA عدد 1 منفذ اللوحة الأممية عدد 1 منفذ الصوت الأممي عدد 1 منفذ CD-IN عدد 1 منفذ خرج S/PDIF عدد 1 منفذ دخل (اختياري) S/PDIF عدد 1 وصلة مروحة وحدة المعالجة المركزية عدد 2 وصلة مروحة النظام عدد 1 وصلة مسح CMOS عدد 3 منفذ USB عدد 1 منفذ توصيل الطاقة (24دبوس) عدد 1 منفذ توصيل الطاقة (4دبليس) | المنافذ على سطح اللوحة |
| عدد 1 لوحة مفاتيح PS/2 عدد 1 ملوس PS/2 عدد 1 منفذ تسلسلي عدد 1 منفذ شبكة اتصال محلية عدد 6 منافذ USB عدد 3 مقيس صوت | عدد 1 لوحة مفاتيح PS/2 عدد 1 ملوس PS/2 عدد 1 منفذ تسلسلي عدد 1 منفذ شبكة اتصال محلية عدد 6 منافذ USB عدد 6 مقيس صوت | منافذ دخل/خرج اللوحة الخلفية |
| 220 مم (عرض) X 305 مم (ارتفاع) | 220 مم (عرض) X 305 مم (ارتفاع) | حجم اللوحة |
| Windows 2000 / XP / VISTA بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار Biostar حفظ أو بدون إخطار . | Windows 2000 / XP / VISTA بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار Biostar حفظ أو بدون إخطار . | دعم أنظمة التشغيل |

JAPANESE

| | Ver 5.x | Ver 6.x |
|-----------|--|--|
| CPU | LGA 775 Intel Core2Duo / Core2Quad / Celeron 4xx / Pentium 4 / Pentium D / Celeron 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 / Celeron 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 | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) | 533 / 800 / 1066 / 1333 MHz 1600 MHz (with DDR2 800) |
| チップセット | Intel P35 Intel ICH9 | Intel P35 Intel ICH9 |
| メインメモリ | DDR2 DIMMスロット x 4 各DIMMは 256MB / 512MB / 1GB / 2GB DDR2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DDR2メモリモジュールDDR2 800 / 667をサポート DDR2 533をサポート (w. FSB 533/1066 CPU) 登録済みDIMMとECC DIMMはサポートされません | DDR2 DIMMスロット x 4 各DIMMは 256MB / 512MB / 1GB / 2GB DDR2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DDR2メモリモジュールDDR2 800 / 667をサポート DDR2 533をサポート (w. FSB 533/1066 CPU) 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 | JMicro JMB368 Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、 | JMicro JMB368 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 | Realtek RTL 8110SC / RTL 8100C(オプション) 10 / 100 / 1000 Mb/秒のオートネゴシエーション | Realtek RTL 8110SC / RTL 8100C(オプション) 10 / 100 / 1000 Mb/秒のオートネゴシエーション |

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| | | Ver 5.x | Ver 6.x |
|--------------|--|---|---|
| | | (Gigabitバンド幅はRTL 8110SC専用です) 半/全二重機能 | (Gigabitバンド幅はRTL 8110SC専用です) 半/全二重機能 |
| 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 | ALC662 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 x3 PCI Express x16スロット x1 PCI Express x 4スロット x1 PCI Express x 1スロット x1 | PCIスロット x3 PCI Express x16スロット x1 PCI Express x 4スロット x1 PCI Express x 1スロット x1 |
| 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 x4 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 電源コネクタ(24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 x4 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 電源コネクタ(24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 シリアルポート x1 LANポート x1 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 シリアルポート x1 LANポート x1 USBポート x6 オーディオジャック x3 |
| ボードサイズ | | 220 mm (幅) X 305 mm (高さ) | 220 mm (幅) X 305 mm (高さ) |
| OSサポート | | Windows 2000 / XP / VISTA Biostar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 Biostar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。 |

2008/01/18