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Ai sensi dell'art. 2 comma 3 del D.M. 275 del 30/10/2002

Si dichiara che questo prodotto è conforme alle normative vigenti e soddisfa i requisiti essenziali richiesti dalle direttive

2004/108/CE, 2006/95/CE e 1999/05/CE

quando ad esso applicabili

Short Declaration of conformity

We declare this product is complying with the laws in force and meeting all the essential requirements as specified by the directives

2004/108/CE, 2006/95/CE and 1999/05/CE

whenever these laws may be applied

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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.
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.

1.2 PACKAGE CHECKLIST

- ✚ Serial ATA Cable X 3
- ✚ Rear I/O Panel for ATX Case X 1
- ✚ User's Manual X 1
- ✚ Fully Setup Driver CD X 1
- ✚ USB 2.0 Cable X1 (optional)
- ✚ Serial ATA Power Cable X 1 (optional)
- ✚ CFX Bridge X 1
- ✚ SLI Bridge X 1

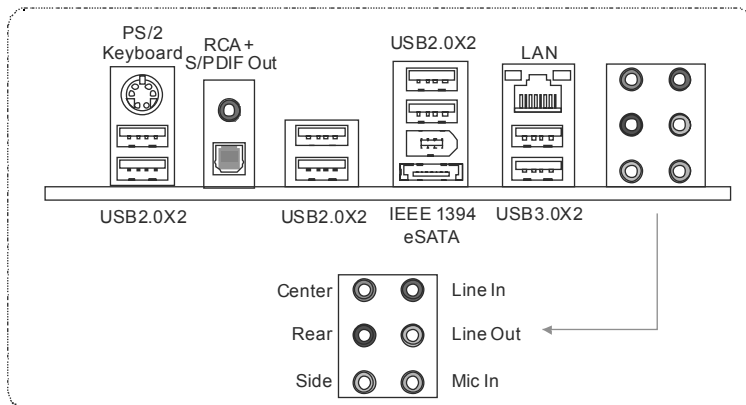
Note: The package contents may be different due to area or your motherboard version.

1.3 MOTHERBOARD FEATURES

| SPEC | | | |
|---------------------|--|---|--|
| CPU | Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron processor | Supports Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading | |
| Chipset | Intel P67 | | |
| Super I/O | IT8728 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 | DDR3 DIMM Slots x 4 Max Memory Capacity 16GB Each DIMM supports 512MB/ 1GB/2GB/4GB DDR3 | Dual Channel Mode DDR3 memory module Supports DDR3 1066 / 1333 Supports DDR3 1600 (OC) / 1866 (OC) / 2133 (OC) Registered DIMM and ECC DIMM is not supported | |
| SATA 2 & 3 | Integrated Serial ATA Controller | Data transfer rates up to 3.0 Gb/s / 6.0 Gb/s. SATA Version 2.0 / 3.0 specification compliant | |
| LAN | Realtek RTL 8111E | 10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability | |
| Sound Codec | ALC892 | 7.1 channels audio out High Definition Audio | |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Data transfer rates up to 600 MB/s | |
| IEEE 1394 | VT6315N | 1394a | |
| Slots | PCI slot | x2 | Supports PCI expansion cards |
| | PCI Express Gen2 x 16 slot | x2 | Supports PCI-E Gen2 x16 expansion cards |
| | PCI Express Gen2 x 1 slot | x2 | Supports PCI-E Gen2 x1 expansion cards |
| On Board Connectors | SATA3 Connector | x2 | Each connector supports 1 SATA3 devices |
| | SATA2 Connector | x3 | Each connector supports 1 SATA2 devices |
| | Front Panel Connector | x1 | Supports front panel facilities |
| | Front Audio Connector | x1 | Supports front panel audio function |
| | CPU Fan Header | x1 | CPU Fan power supply (with Smart Fan function) |
| | System Fan Header | x2 | System Fan Power supply |
| | Clear CMOS Header | x1 | Restore CMOS data to factory default |
| USB2.0 Connector | x3 | Each connector supports 2 front panel USB2.0 ports | |

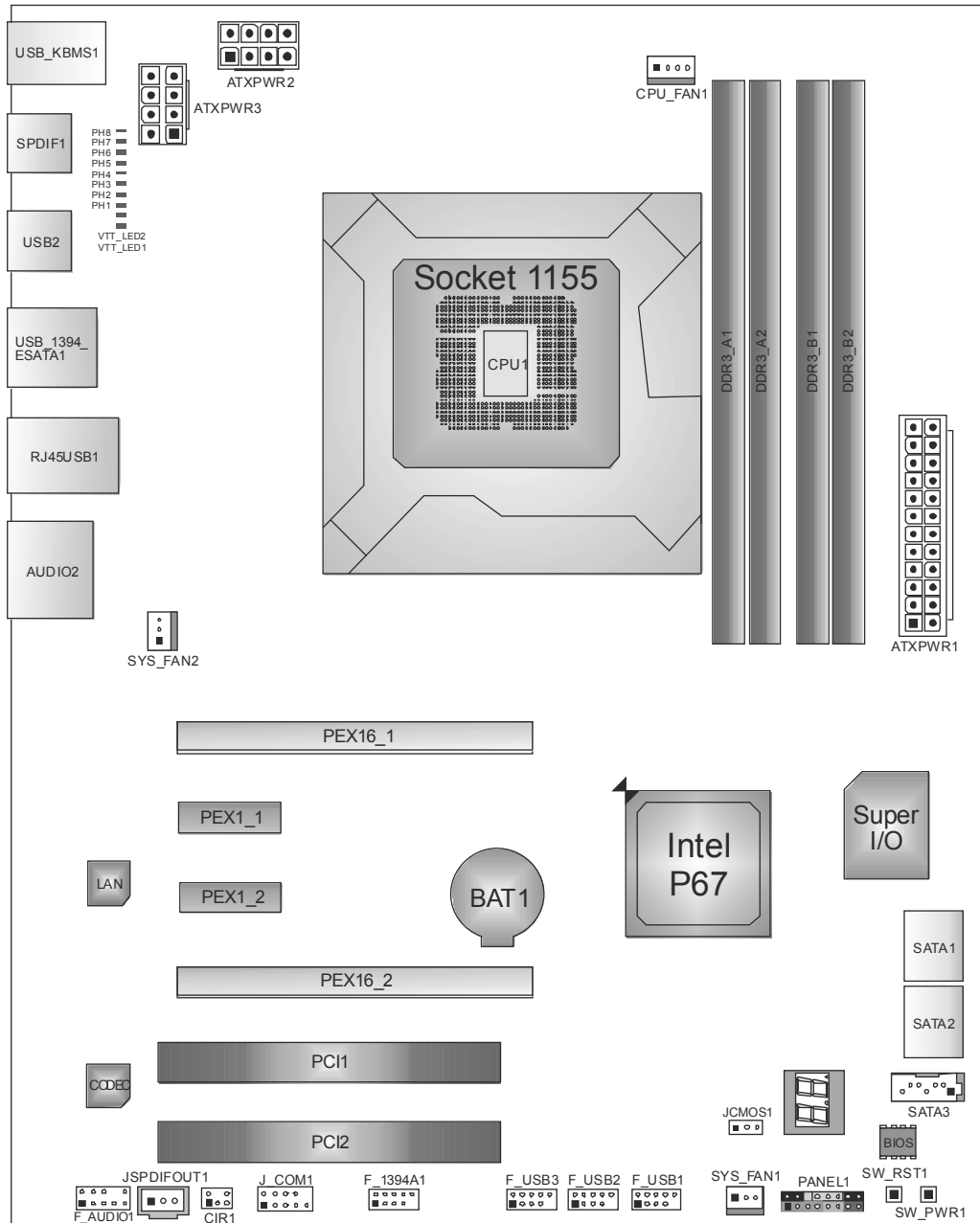
| SPEC | | | |
|-------------------|-------------------------|----|---|
| | Consumer IR Connector | x1 | Supports infrared function |
| | Serial Port Connector | x1 | Connects to RS-232 Port |
| | IEEE 1394 Connector | x1 | Connects to IEEE 1394 device |
| | S/PDIF out Connector | x1 | Supports digital audio out function |
| | Power Connector (24pin) | x1 | Connects to Power supply |
| | Power Connector (8pin) | x2 | Connects to Power supply |
| Back Panel I/O | PS/2 Keyboard | x1 | Connects to PS/2 Keyboard |
| | RCA + S/PDIF Out | x1 | Provides digital audio out function |
| | 1394 Port | x1 | Connects to IEEE 1394 device |
| | eSATA Port | x1 | Connect to SATA devices |
| | LAN port | x1 | Connect to RJ-45 ethernet cable |
| | USB2.0 Port | x6 | Connect to USB2.0 devices |
| | USB3.0 Port | x2 | Connect to USB3.0 devices (by NEC uPD720200 / ASM1042) and USB2.0/USB1.X devices (by P67) |
| | Audio Jack | x6 | Provide Audio-In/Out and Mic. connection |
| Board Size | 244 (W) x 305 (L) mm | | ATX |
| OS Support | Windows XP / Vista / 7 | | Biostar reserves the right to add or remove support for any OS with or without notice |

1.4 REAR PANEL CONNECTORS



NOTE: USB3.0 ports are backward compatible with USB2.0/USB1.X devices. USB3.0 is controlled by NEC uPD720200 / Asmedia ASM1042, but, USB2.0/USB1.X is controlled by P67.

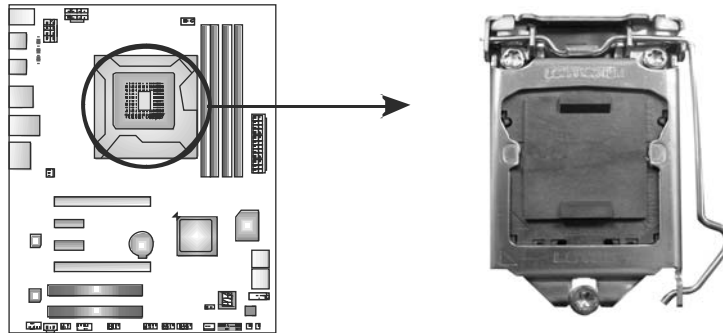
1.5 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

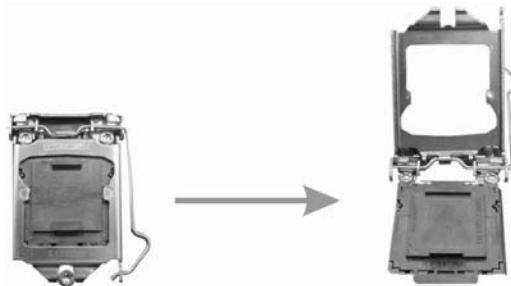
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



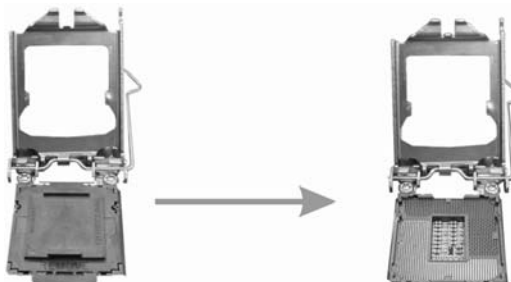
Special Notice:

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.

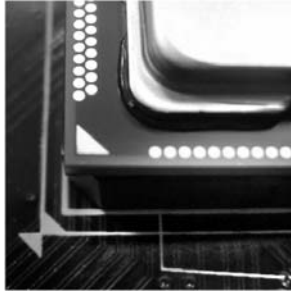


Step 2: Remove the Pin Cap.



Motherboard Manual

Step 3: 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 4: Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.

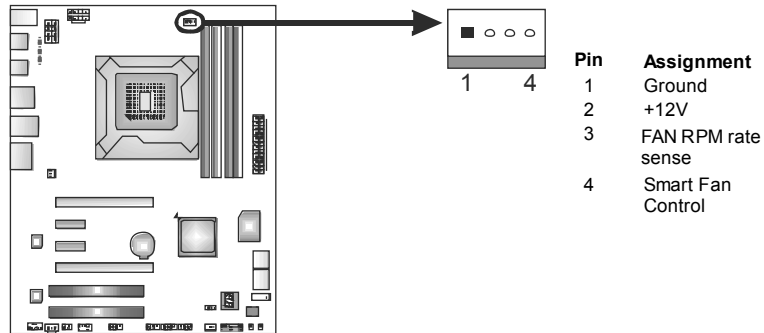


Step 5: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU_FAN1 to complete the installation.

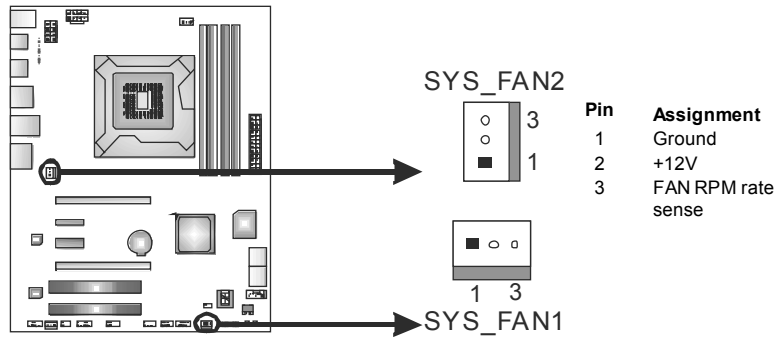
2.2 FAN HEADERS

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.

CPU_FAN1: CPU Fan Header



SYS_FAN1/SYS_FAN2: System Fan Headers

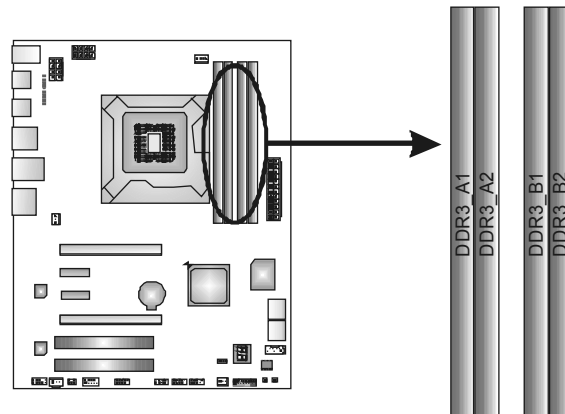


Note:

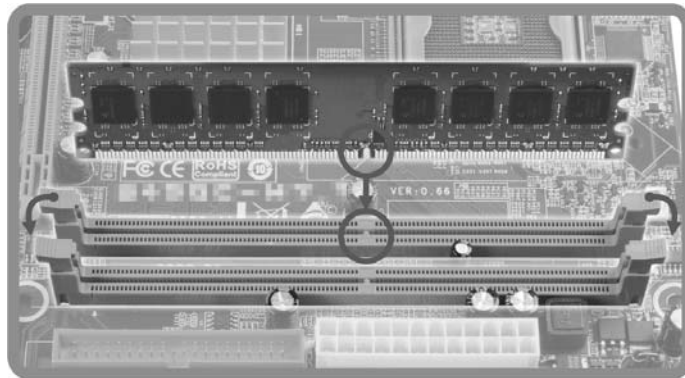
The SYS_FAN1/SYS_FAN2 support 3-pin head connectors; the CPU_FAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

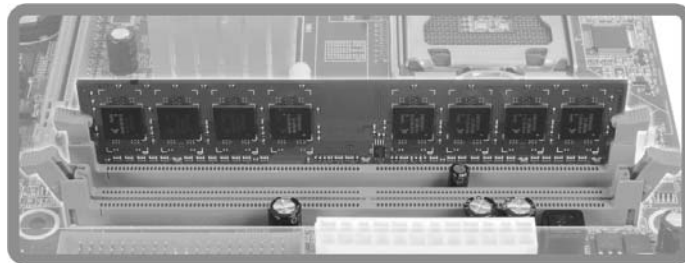
A. Memory Modules



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 | DDR3 Module | Total Memory Size |
|----------------------|-------------------|-------------------|
| DDR3_A1 | 512MB/1GB/2GB/4GB | Max is 16GB. |
| DDR3_A2 | 512MB/1GB/2GB/4GB | |
| DDR3_B1 | 512MB/1GB/2GB/4GB | |
| DDR3_B2 | 512MB/1GB/2GB/4GB | |

C. Dual Channel Memory Installation

Please refer to the following requirements to activate Dual Channel function:

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

| Dual Channel Status | DDR3_A1 | DDR3_A2 | DDR3_B1 | DDR3_B2 |
|---------------------|---------|---------|---------|---------|
| 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)

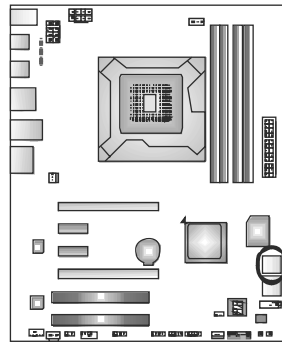
Note:

Memory module must be installed in DDR3-A2 or DDR3-B2 to boot the system.

2.4 CONNECTORS AND SLOTS

SATA1: Serial ATA3 Connectors

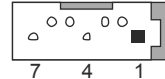
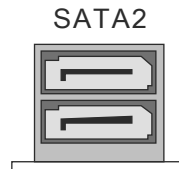
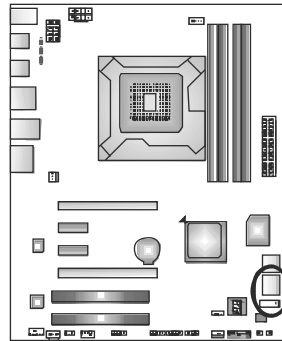
The motherboard has a PCI to SATA Controller with 2 channels SATA3 interface, it satisfies the SATA 3.0 spec and with transfer rate of 6.0Gb/s.



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

SATA2/3: Serial ATA2 Connectors

The motherboard has a PCI to SATA Controller with 3 channels SATA2 interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

SATA3

7 4 1

PEX16_1: PCI-Express Gen2 x16 Slot

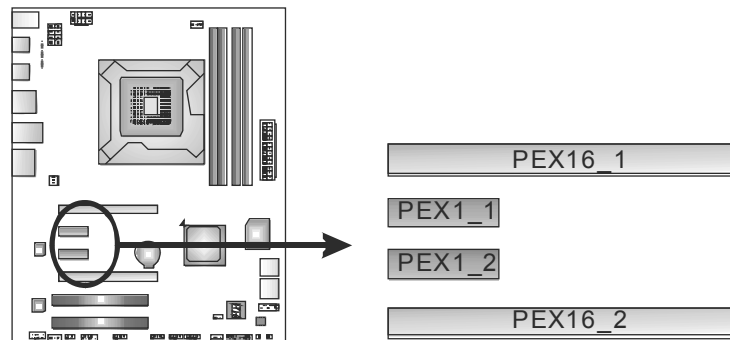
- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.
- 2X bandwidth over the PCI-Express 1.1 architecture.

PEX16_2: PCI-Express Gen2 x8 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

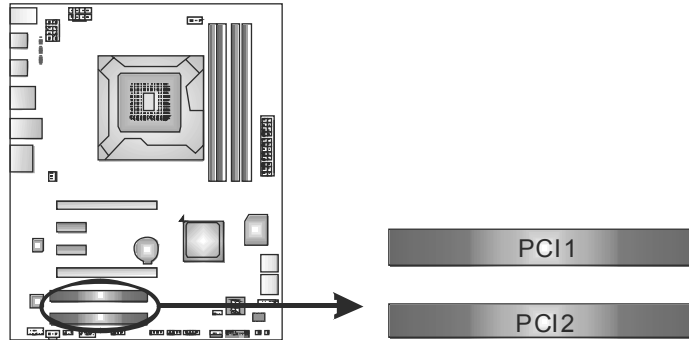
PEX1_1/PEX1_2: PCI-Express Gen2 x1 Slot

- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 500MB/s per direction; 1GB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.
- 2X bandwidth over the traditional PCI architecture.



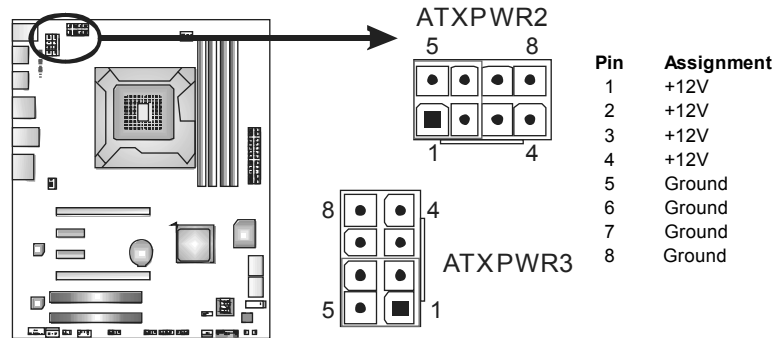
PCI1/PCI2: Peripheral Component Interconnect Slots

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



ATXPWR2/3: ATX Power Source Connectors

These connectors provide +12V to CPU power circuit. If the CPU power plug is 4-pin, please plug it into Pin 1-2-5-6 of ATXPWR2/3.

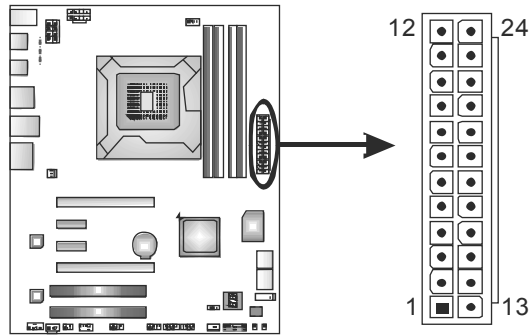


Note:

Generally, any of ATXPWR2 and ATXPWR3 can be plugged. When system is overclocked, it is recommended to plug in both ATXPWR2 and ATXPWR3 for stability.

ATXPWR1: ATX Power Source Connector

This connector 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 |

Note:

Before you power on the system, please make sure that ATXPWR1 ~ ATXPWR3 connectors have been well plugged-in.

CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

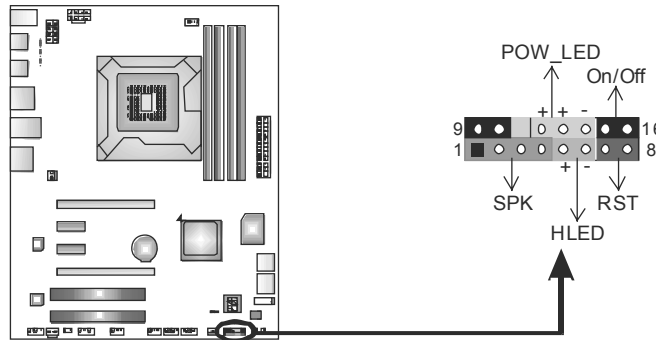
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

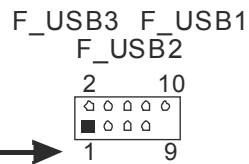
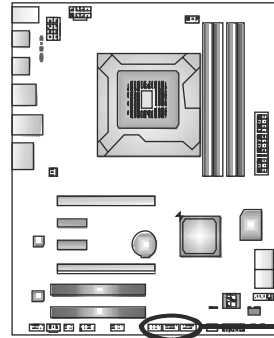
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



| 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 | |

F_USB1/F_USB2/F_USB3: Headers for USB 2.0 Ports at Front Panel

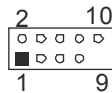
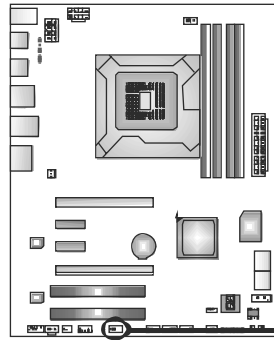
These headers allow user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

F_1394A1: IEEE 1394 Header

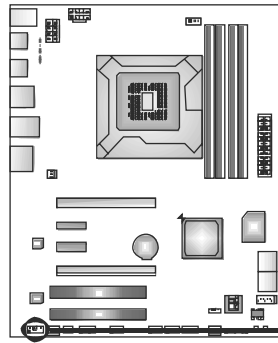
This header allows user to connect IEEE 1394 device.



| Pin | Assignment |
|-----|------------|
| 1 | TPA1+ |
| 2 | TPA1- |
| 3 | GND |
| 4 | GND |
| 5 | TPB1+ |
| 6 | TPB1- |
| 7 | VCC |
| 8 | VCC |
| 9 | N/A |
| 10 | KEY |

F_AUDIO1: Front Panel Audio Header

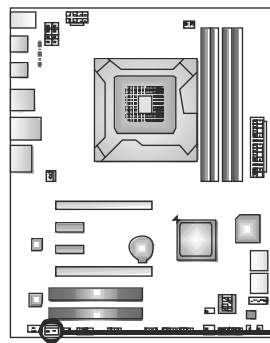
This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector; AC'97 connector is not acceptable.



| 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 |

JSPDIFOUT1: Digital Audio-out Connector

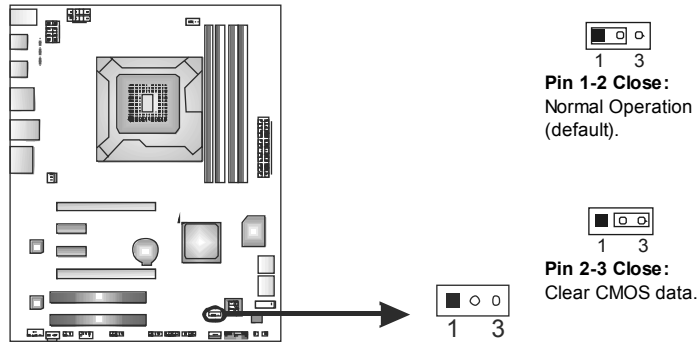
This connector allows user to connect the PCI bracket SPDIF output header.



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

JCMOS1: Clear CMOS Header

Placing the jumper on pin2-3 allows user to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.

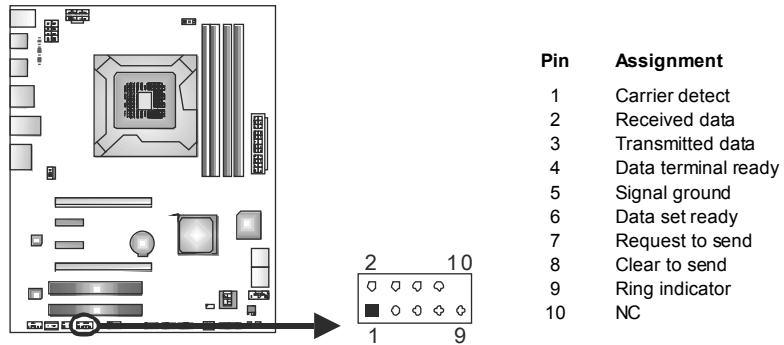


※ Clear CMOS Procedures:

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.

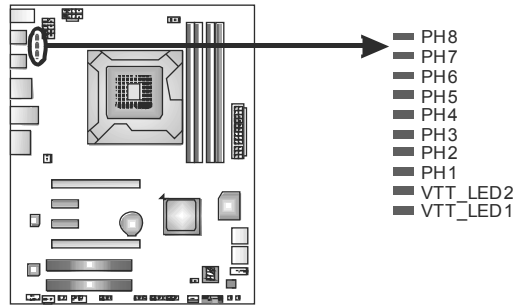
J_COM1: Serial Port Connector

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



On-Board LED Indicators

There are 12 LED indicators on the motherboard showing system status.



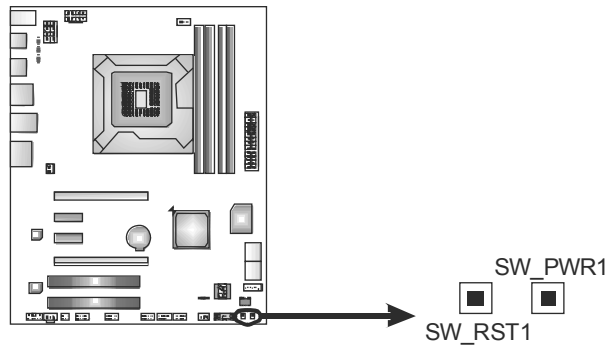
PH1 ~ PH8 / VTT_LED1 ~ VTT_LED2: Power Status Indicators

Please refer to the tables below for specific messages:

| PH1~PH8 VTT_LED1~VTT_LED2 | Phase Indicator |
|------------------------------|-----------------|
| ON | Phase Active |
| OFF | Phase Inactive |

On-Board Buttons

There are 2 on-board buttons.

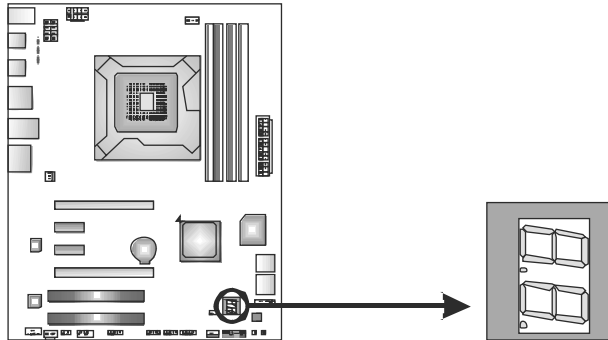


SW_RST1: Reset button.

SW_PWR1: Power Switch button.

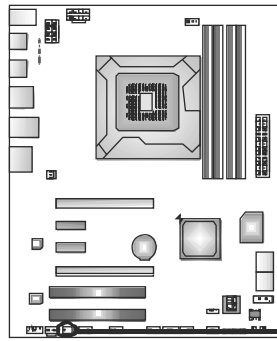
BIOS POST Code/CPU Temperature Indicator

This indicator will show POST code while booting. After the booting sequence, it will show current CPU temperature through hexadecimal figure. Please refer to Chapter 6.3 for all the BIOS POST codes.



CIR1: Consumer IR Connector

This header is for infrared remote control and communication.



| Pin | Assignment |
|-----|--------------------|
| 1 | IrDA serial input |
| 2 | Ground |
| 3 | Ground |
| 4 | Key |
| 5 | IrDA serial output |
| 6 | IR Power |



CHAPTER 4: RAID FUNCTIONS

4.1 OPERATING SYSTEM

Supports Windows Vista and Windows 7.

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 10: RAID 10 combines the techniques used in RAID 0 and RAID 1.

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

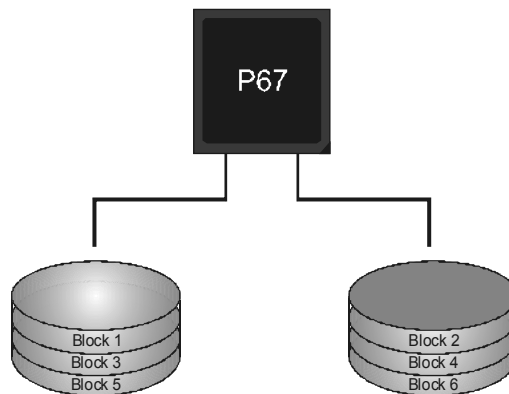
4.3 How RAID WORKS

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 2, 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.

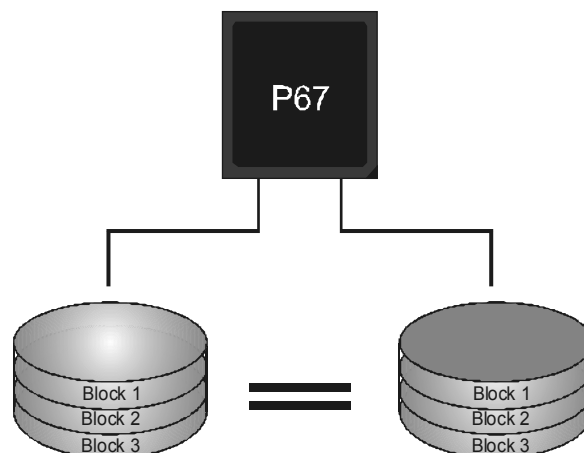


RAID 1:

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.

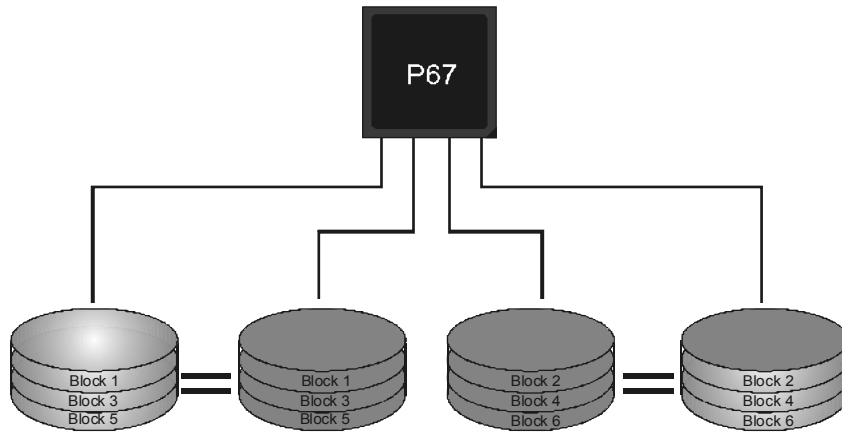


RAID 10:

RAID 1 drives can be striped using RAID 0 techniques. Resulting in a RAID 10 solution for improved resiliency, performance and rebuild performance.

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.

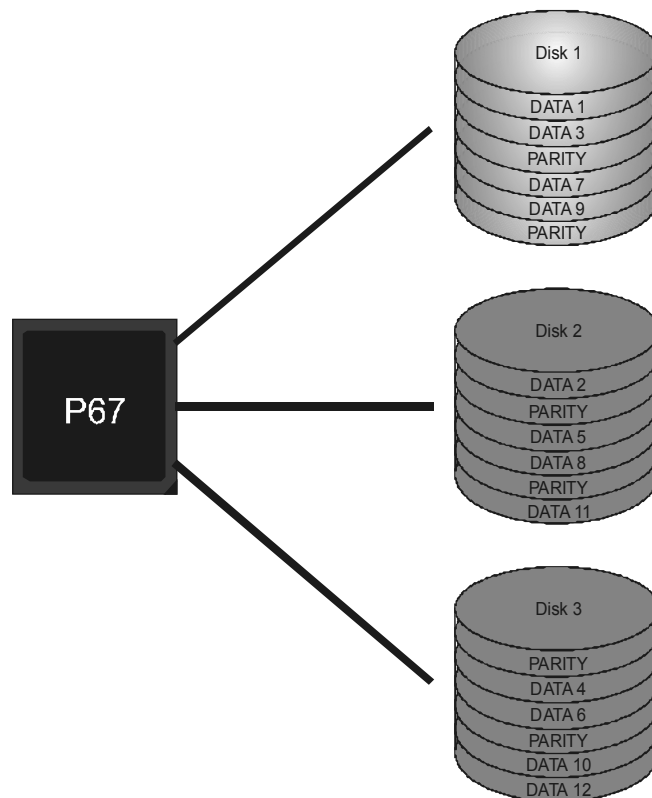


RAID 5:

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: T-SERIES UEFI BIOS & SOFTWARE

5.1 T-SERIES UEFI BIOS

T-Series UEFI BIOS Features

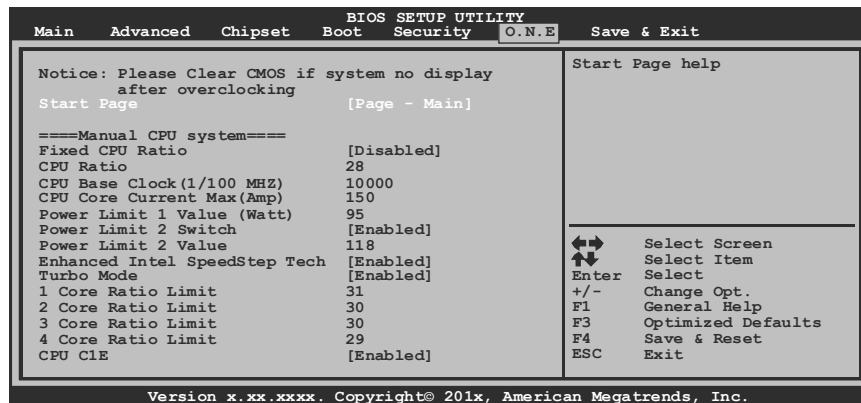
- Overclocking Navigator Engine (O.N.E.)
- Self Recovery System (S.R.S)
- Smart Fan Function
- BIO-Flasher: Update UEFI BIOS file from USB Flash Drive

!! WARNING !!

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

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

O.N.E provides 4 systems allowing users to customize personal overclock settings: Manual CPU System, Manual Memory System, Manual PWM System, and Manual Voltage System.



Notice:

Not all types of Intel CPU perform above overclock setting ideally; the difference will be based on the selected CPU model.

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.

B. Self Recovery System (S.R.S.)

This function can't be seen under UEFI BIOS setup, and is always on whenever the system starts up.

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

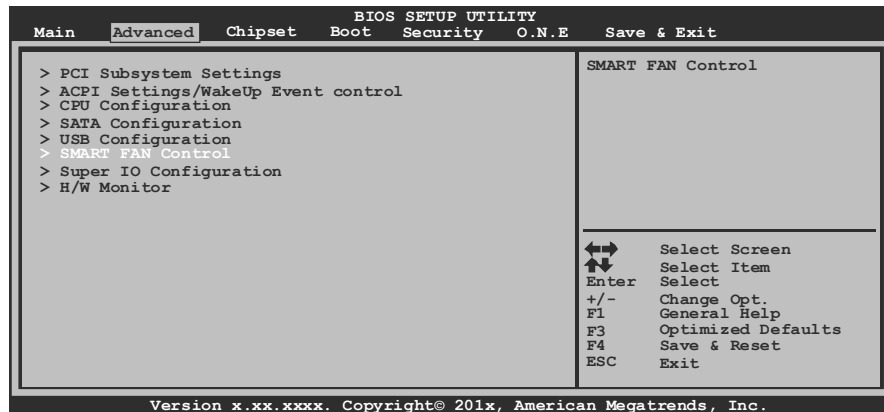
When the system hangs up, S.R.S. will automatically log in the default UEFI BIOS setting, and all overclock settings will be re-configured.

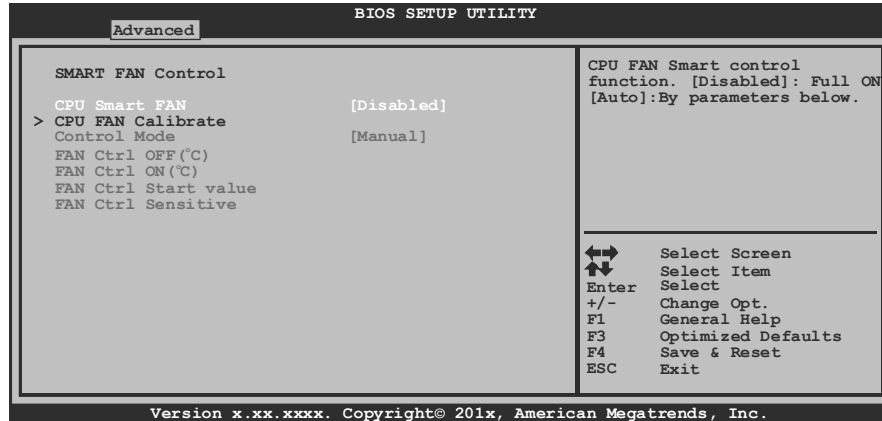
C. Smart Fan Function

Smart Fan Function is under “Smart Fan Control” in “Advanced Menu”.

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.





CPU Smart FAN

This item allows you to control the CPU Smart Fan function.

CPU FAN Calibrate

Press [ENTER] to calibrate CPU FAN.

Control Mode

This item provides several operation modes of the fan.

Fan Ctrl OFF(°C)

When CPU temperature is lower than this value, the CPU fan will keep lowest RPM. The range is from 0~127, with an interval of 1.

Fan Ctrl On(°C)

When CPU temperature is higher than this value, the CPU fan controller will turn on. The range is from 0~127, with an interval of 1.

Fan Ctrl Start Value

This item sets CPU FAN Start Speed Value. The range is from 0~127, with an interval of 1.

Fan Ctrl Sensitive

The bigger the numeral is, the higher the FAN speed is. The range is from 0~127, with an interval of 1.

5.2 T-SERIES SOFTWARE

Installing T-Series Software

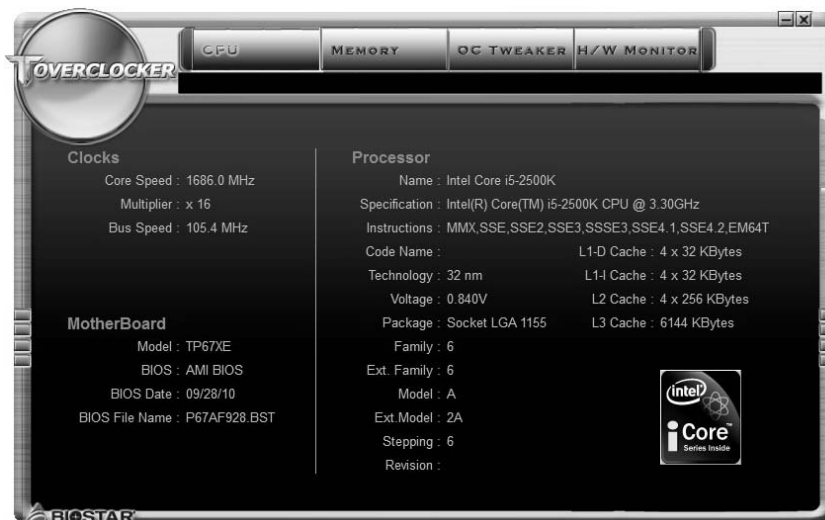
1. Insert the Setup CD to the optical drive. The driver installation program would appear if the Auto-run function has been enabled.
2. Select **Software Installation**, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

Launching T-Series Software

After the installation process is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

TOverclocker

TOverclocker presents a simple Windows-based system performance enhancement and manageability utility. It features several powerful and easy to use tools such as Overclocking for enhancing system performance, also for special enhancement on CPU and Memory. Smart-Fan management and PC health are for monitoring system status. This utility also allows you to make overclocking profiles saving unlimitedly, and pre-set OC modes are for easy OC. (The illustration below is for reference only)





The **CPU** tab provides information on the CPU and motherboard.

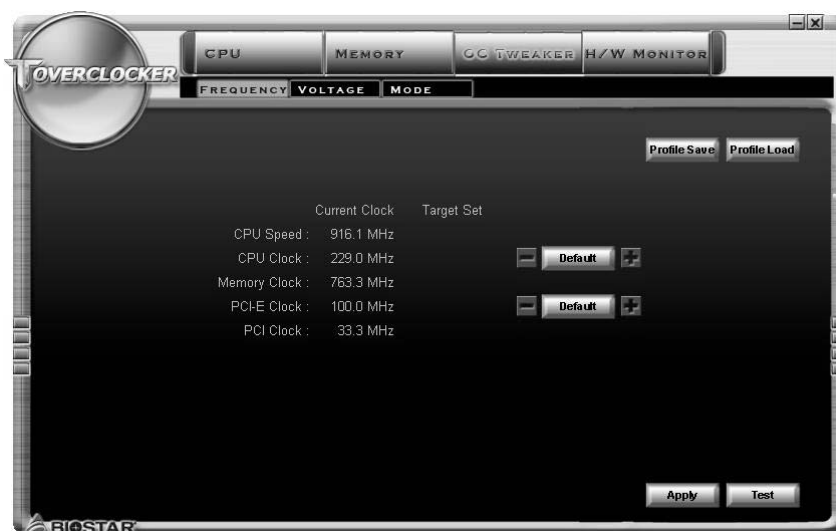


The **Memory** tab provides information on the memory module(s).

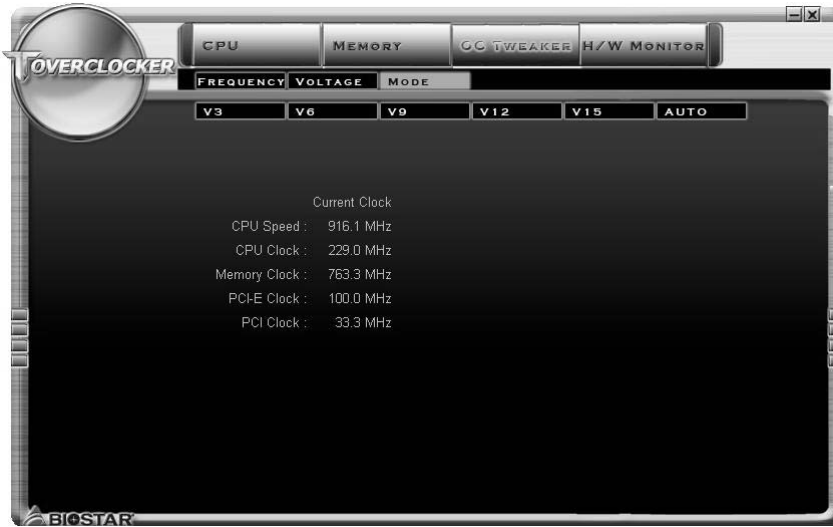
You can select memory module on a specific slot to see its information.



The **OC Tweaker** tab allows you to change system clock settings and voltages settings. It also provides six pre-set modes for you:



3 Pre-set Modes: V6, V12, AUTO for different overclocking experience.

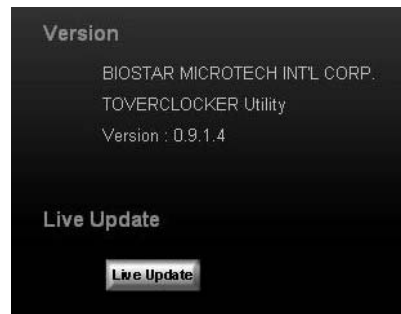


The **HW Monitor** tab allows you to monitor hardware voltage, fan speed, and temperature. Besides, you also can set related values for CPU Smart Fan.



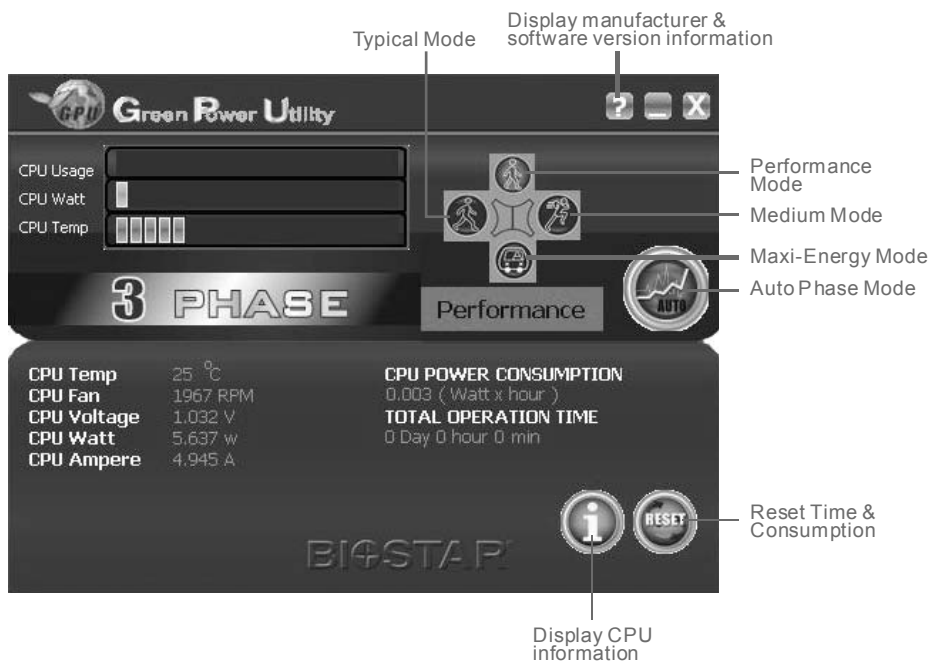


Pressing **TOVERCLOCKER** logo displays information about manufacturer and software version. You can update current version by clicking the button “Live Update.”



Green Power II Utility

BIOSTAR G.P.U II (Green Power Utility) is a new function. The utility enhances energy efficiency by disabling extra phases while CPU is on light loading; it features 4+1 power phases, current power saving, and total power saving. This tool integrates a friendly GUI to monitor your CPU Usage, CPU Watt, and CPU Temperature. Moreover, it optimizes power saving and best power efficiency on your system. (The illustration below is for reference only)



G.P.U Mode Setting

This utility provides five modes, upon your requirements, to improve system performance or to save power consumption.

Note: Even if the modes saving more power consumption are chosen, the system still can keep excellent performance.

■ Auto Phase Mode

System switches the mode automatically according to current system loading condition.

■ Performance Mode

This is the mode saving power consumption most. Least energy will be used in the system.

■ Typical Mode

Compared with that in Performance Mode, energy consumption in this mode is a little bit more.

■ Medium Mode

This is the standard system power saving mode.

■ Maxi-Energy Mode

This is the best system performance mode.

eHot-Line (Optional)

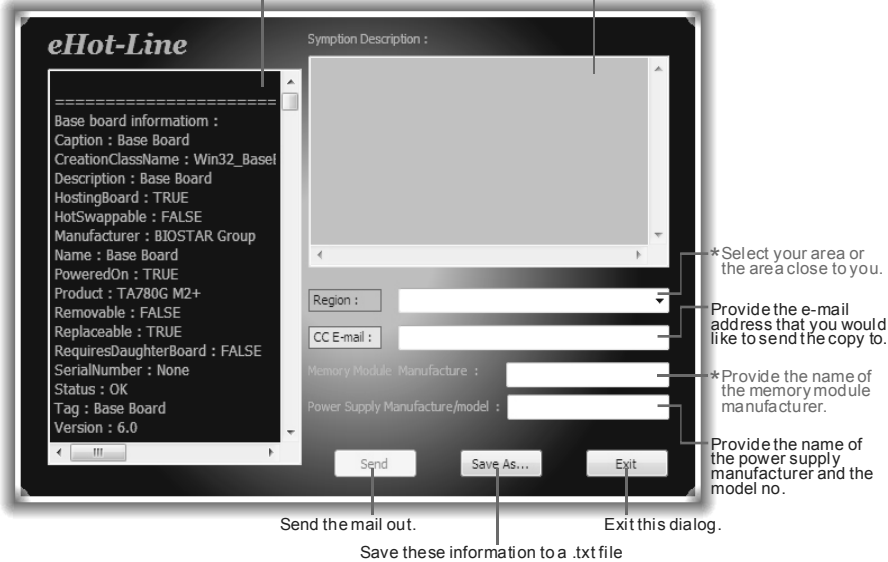
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

 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.



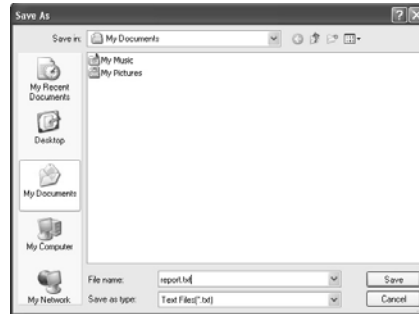
The screenshot shows the eHot-Line utility window. On the left, a text box displays system information: Base board information: Caption: Base Board, CreationClassName: Win32_Base, Description: Base Board, HostingBoard: TRUE, HotSwappable: FALSE, Manufacturer: BIOSTAR Group, Name: Base Board, PoweredOn: TRUE, Product: TA780C M2+, Removable: FALSE, Replaceable: TRUE, RequiresDaughterBoard: FALSE, SerialNumber: None, Status: OK, Tag: Base Board, Version: 6.0. On the right, there is a 'Symptom Description' text area. Below it are input fields for 'Region', 'CC E-mail', 'Memory Module Manufacture', and 'Power Supply Manufacture/model'. At the bottom are 'Send', 'Save As...', and 'Exit' buttons. Annotations with arrows point to these elements: the system information box, the symptom description area, the Region dropdown, the CC E-mail field, the Memory Module Manufacture field, the Power Supply Manufacture/model field, the Send button, the Save As... button, and the Exit button.

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.

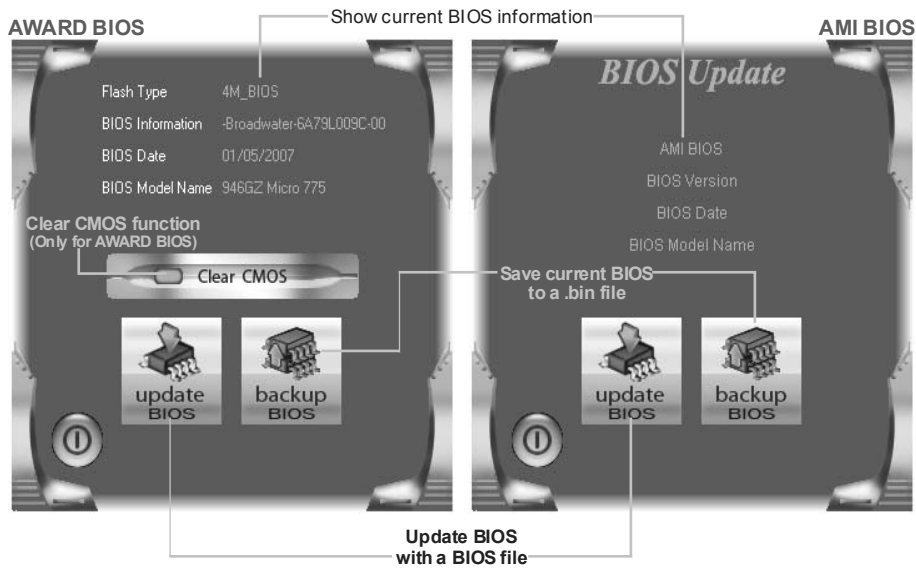


If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application.

Motherboard Manual

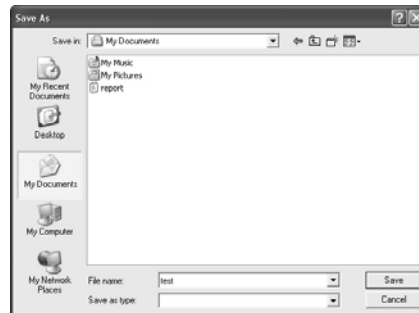
BIOS Update

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



<Backup BIOS>

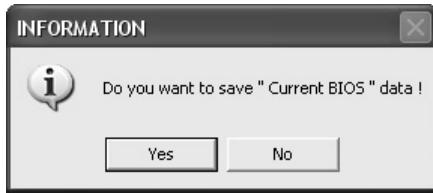
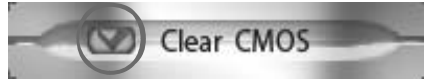
Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.



<Update BIOS>

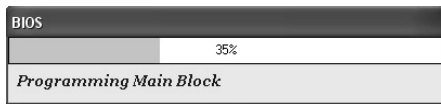
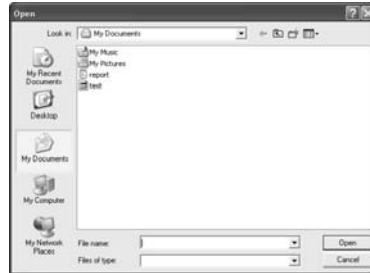
Before doing this, please download the proper BIOS file from the website.

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



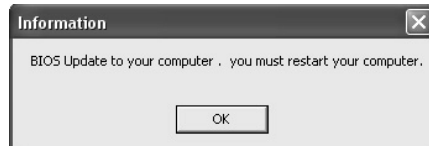
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


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.

BIOScreen Utility (Optional)

This utility allows you to personalize your boot logo easily. You can choose JPG or BMP as your boot logo so as to customize your computer.



Please follow the following instructions to update boot logo:

1. **Load Image** : Choose the picture as the boot logo.
2. **Transform** : Transform the picture for BIOS and preview the result.
3. **Update Bios** : Write the picture to BIOS Memory to complete the update.

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 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.

6.3 AMI BIOS Post Code

| Checkpoint | Description |
|------------|--|
| 03 | Disable NMI, Parity, video for EGA, and DMA controllers. Initialize BIOS, POST, Runtime data area. Also initialize BIOS modules on POST entry and GPNV area. Initialize CMOS as mentioned in the Kernel Variable "wCMOSFlags." |
| 04 | Check CMOS diagnostic byte to determine if battery power is OK and CMOS checksum is OK. Verify CMOS checksum manually by reading storage area. If the CMOS checksum is bad, update CMOS with power-on default values and clear passwords. Initialize status register A. Initializes data variables that are based on CMOS setup questions. Initializes both the 8259 compatible PICs in the system |
| 05 | Initializes the interrupt controlling hardware (generally PIC) and interrupt vector table. |
| 06 | Do RW test to CH-2 count reg. Initialize CH-0 as system timer. Install the POSTINT1Ch handler. Enable IRQ-0 in PIC for system timer interrupt. Traps INT1Ch vector to "POSTINT1ChHandlerBlock." |
| 07 | Fixes CPU POST interface calling pointer. |
| 08 | Initializes the CPU. The BAT test is being done on KBC. Program the keyboard controller command byte is being done after Auto detection of KB/MS using AMI KB-5. |
| C0 | Early CPU Init Start -- Disable Cache – Init Local APIC. |
| C1 | Set up boot strap processor Information. |
| C2 | Set up boot strap processor for POST. |
| C5 | Enumerate and set up application processors. |
| C6 | Re-enable cache for boot strap processor. |
| C7 | Early CPU Init Exit. |
| 0A | Initializes the 8042 compatible Key Board Controller. |
| 0B | Detects the presence of PS/2 mouse. |
| 0C | Detects the presence of Keyboard in KBC port. |
| 0E | Testing and initialization of different Input Devices. Also, update the Kernel Variables. Traps the INT09h vector, so that the POST INT09h handler gets control for IRQ1. Uncompress all available language, BIOS logo, and Silent logo modules. |
| 13 | Early POST initialization of chipset registers. |
| 20 | Relocate System Management Interrupt vector for all CPU in the system. |
| 24 | Uncompress and initialize any platform specific BIOS modules. GPNV is initialized at this checkpoint. |
| 2A | Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information. |
| 2C | Initializes different devices. Detects and initializes the video adapter installed in the system that have optional ROMs. |
| 2E | Initializes all the output devices. |
| 31 | Allocate memory for ADM module and uncompress it. Give control to ADM module for initialization. Initialize language and font modules for ADM. Activate ADM module. |
| 33 | Initializes the silent boot module. Set the window for displaying text information. |

Motherboard Manual

| Checkpoint | Description |
|------------|--|
| 37 | Displaying sign-on message, CPU information, setup key message, and any OEM specific information. |
| 38 | Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information. USB controllers are initialized at this point. |
| 39 | Initializes DMAC-1 & DMAC-2. |
| 3A | Initialize RTC date/time. |
| 3B | Test for total memory installed in the system. Also, Check for DEL or ESC keys to limit memory test. Display total memory in the system. |
| 3C | Mid POST initialization of chipset registers. |
| 40 | Detect different devices (Parallel ports, serial ports, and coprocessor in CPU, etc.) successfully installed in the system and update the BDA, EBDA...etc. |
| 52 | Updates CMOS memory size from memory found in memory test. Allocates memory for Extended BIOS Data Area from base memory. Programming the memory hole or any kind of implementation that needs an adjustment in system RAM size if needed. |
| 60 | Initializes NUM-LOCK status and programs the KBD typematic rate. |
| 75 | Initialize Int-13 and prepare for IPL detection. |
| 78 | Initializes IPL devices controlled by BIOS and option ROMs. |
| 7C | Generate and write contents of ESCD in NVRam. |
| 84 | Log errors encountered during POST. |
| 85 | Display errors to the user and gets the user response for error. |
| 87 | Execute BIOS setup if needed / requested. Check boot password if installed. |
| 8C | Late POST initialization of chipset registers. |
| 8D | Build ACPI tables (if ACPI is supported). |
| 8E | Program the peripheral parameters. Enable/Disable NMI as selected. |
| 90 | Initialization of system management interrupt by invoking all handlers. Please note this checkpoint comes right after checkpoint 20h. |
| A1 | Clean-up work needed before booting to OS. |
| A2 | Takes care of runtime image preparation for different BIOS modules. Fill the free area in F000h segment with 0FFh. Initializes the Microsoft IRQ Routing Table. Prepares the runtime language module. Disables the system configuration display if needed. |
| A4 | Initialize runtime language module. Display boot option popup menu. |
| A7 | Displays the system configuration screen if enabled. Initialize the CPU's before boot, which includes the programming of the MTRR's. |
| A9 | Wait for user input at config display if needed. |
| AA | Uninstall POST INT1Ch vector and INT09h vector. |
| AB | Prepare BBS for Int 19 boot. Init MP tables. |
| AC | End of POST initialization of chipset registers. De-initializes the ADM module. |
| B1 | Save system context for ACPI. Prepare CPU for OS boot including final MTRR values. |
| 00 | Passes control to OS Loader (typically INT19h). |

6.4 TROUBLESHOOTING

| Probable | Solution |
|---|---|
| <ol style="list-style-type: none"> 1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work 2. Indicator light on keyboard does not shine. | <ol style="list-style-type: none"> 1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support. |
| System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running. | Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place. |
| System does not boot from a hard disk drive, but can be booted from optical drive. | <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. |
| System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk. | <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. |
| Screen message shows "Invalid Configuration" or "CMOS Failure." | Review system's equipment. Make sure correct information is in setup. |
| System cannot boot after user installs a second hard drive. | <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. |

APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

| <i>Spezifikationen</i> | | |
|------------------------|--|---|
| CPU | Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron Prozessoren | Unterstützt Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading |
| Chipsatz | Intel P67 | |
| Super E/A | IT8728 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 | DDR3 DIMM-Steckplätze x 4 Max. 16GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB DDR3. | Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 1066 / 1333 Unterstützt DDR3 1600(OC) / 1866(OC) / 2133(OC) registrierte DIMMs. ECC DIMMs werden nicht unterstützt. |
| SATA 2 & 3 | Integrierter Serial ATA-Controller | Datentransferrate bis zu 3.0Gb/s / 6.0Gb/s. Konform mit der SATA-Spezifikation Version 2.0 / 3.0 |
| LAN | Realtek RTL 8111E | 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion |
| HD Audio-Unterstützung | ALC892 | Unterstützt High-Definition Audio 7.1-Kanal-Audioausgabe |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Datenübertragungsraten bis zu 600 MB / s |
| IEEE 1394 | VT6315N | 1394a |
| Steckplätze | PCI-Steckplatz x2 PCI Express Gen2 x16 Steckplatz x2 PCI Express Gen2 x 1-Steckplatz x2 | |

| Spezifikationen | | | |
|---------------------------|--------------------------|--|--|
| Onboard-Anschluss | SATA3-Anschluss | x2 | Jeder Anschluss unterstützt 1 SATA3-Laufwerk |
| | SATA2-Anschluss | x3 | Jeder Anschluss unterstützt 1 SATA2-Laufwerk |
| | Fronttafelanschluss | x1 | Unterstützt die Fronttafel-funktionen |
| | Front-Audioanschluss | x1 | Unterstützt die Fronttafel-Audioanschlussfunktion |
| | CPU-Lüfter-Sockel | x1 | CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion) |
| | System-Lüfter-Sockel | x2 | System-Lüfter-Stromversorgungsanschluss |
| | "CMOS löschen"-Sockel | x1 | |
| | USB2.0-Anschluss | x3 | Jeder Anschluss unterstützt 2 Fronttafel-USB2.0-Anschlüsse |
| | Verbraucher-IR Anschluss | x1 | |
| | Serieller Anschluss | x1 | |
| | IEEE 1394-Anschluss | x1 | |
| | S/PDIF Ausgangsanschluss | x1 | Unterstützt die digitale Audioausgabefunktion |
| Stromanschluss (24-polig) | x1 | | |
| Stromanschluss (8-polig) | x2 | | |
| Rückseiten-E/A | PS/2-Tastatur | x1 | |
| | RCA + S/PDIF Heraus | x1 | |
| | 1394-Anschluss | x1 | |
| | eSATA Anschluss | x1 | |
| | LAN-Anschluss | x1 | |
| | USB2.0-Anschluss | x6 | |
| | USB3.0-Anschluss | x2 | USB3.0 Geräte (durch NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X Geräte (durch P67) |
| | Audioanschluss | x6 | |
| Platinengröße | 244 mm (B) X 305 mm (L) | ATX | |
| OS-Unterstützung | Windows XP / Vista / 7 | Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen. | |

FRENCH

| <i>SPEC</i> | | |
|--------------------------|--|--|
| UC | Socket 1155 Processeurs Intel Core i7 / i5 / i3 / Pentium / Celeron | Prend en charge les technologies d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64 / de virtualisation / Hyper Threading |
| Chipset | Intel P67 | |
| Super E/S | IT8728 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 DDR3 DIMM x 4 Capacité mémoire maximale de 16 Go Chaque DIMM prend en charge des DDR3 de 512Mo/1Go/2Go/4Go | Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 1066 / 1333 Prend en charge la DDR3 1600 (OC) / 1866 (OC) / 2133 (OC) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge |
| SATA 2 & 3 | Contrôleur Serial ATA intégré : | Taux de transfert jusqu'à 3.0Go/s / 6.0Go/s. Conforme à la spécification SATA Version 2.0 / 3.0 |
| LAN | Realtek RTL 8111E | 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability |
| Prise en charge audio HD | ALC892 | Prise en charge de l'audio haute définition Sortie audio à 7.1 voies |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Taux de transfert de données jusqu'à 600 Mo / s |
| IEEE 1394 | VT6315N | 1394a |
| Fentes | Fente PCI x2 Fente PCI Express Gen2 x16 x2 Fente PCI Express Gen2 x1 x2 | |

| SPEC | | | |
|------------------------|--|-----|--|
| Connecteur embarqué | Connecteur SATA3 | x2 | Chaque connecteur prend en charge 1 périphérique SATA3 |
| | Connecteur SATA2 | x3 | Chaque connecteur prend en charge 1 périphérique SATA2 |
| | Connecteur du panneau avant | x1 | Prend en charge les équipements du panneau avant |
| | Connecteur Audio du panneau avant | x1 | Prend en charge la fonction audio du panneau avant |
| | Embase de ventilateur UC | x1 | Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent) |
| | Embase de ventilateur système | x2 | Alimentation électrique du ventilateur système |
| | Embase d'effacement CMOS | x1 | |
| | Connecteur USB2.0 | x3 | Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant |
| | Connecteur de IR du consommateur | x1 | |
| | Port série | x1 | |
| | Connecteur IEEE 1394 | x1 | |
| | Connecteur de sortie S/PDIF | x1 | Prend en charge la fonction de sortie audio numérique |
| | Connecteur d'alimentation (24 broches) | x1 | |
| | Connecteur d'alimentation (8 broches) | x2 | |
| E/S du panneau arrière | Clavier PS/2 | x1 | |
| | RCA + Sortie S/PDIF | x1 | |
| | Port 1394 | x1 | |
| | Port eSATA | x1 | |
| | Port LAN | x1 | |
| | Port USB2.0 | x6 | |
| | Port USB3.0 | x2 | USB3.0 dispositifs (par NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X dispositifs (par P67) |
| Fiche audio | x6 | | |
| Dimensions de la carte | 244 mm (l) X 305 mm (H) | ATX | |
| Support SE | Windows XP / Vista / 7 | | Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis |

ITALIAN

| SPECIFICA | | |
|--------------------|---|--|
| CPU | Socket 1155 Processore Intel Core i7 / i5 / i3 / Pentium / Celeron | Supporto di Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization / Hyper Threading |
| Chipset | Intel P67 | |
| Super I/O | IT8728 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 Capacità massima della memoria 16GB Ciascun DIMM supporta DDR3 512MB/1GB/2GB/4GB | Modulo di memoria DDR3 a canale doppio Supporto di DDR3 1066 / 1333 Supporto di DDR3 1600 (OC) / 1866 (OC) / 2133 (OC) DIMM registrati e DIMM ECC non sono supportati |
| SATA 2 & 3 | Controller Serial ATA integrato | Velocità di trasferimento dei dati fino a 3.0Gb/s / 6.0Gb/s. Compatibile specifiche SATA Versione 2.0/3.0 |
| LAN | Realtek RTL 8111E | Negoziante automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex |
| Supporto audio HD | ALC892 | Supporto audio High-Definition (HD) Uscita audio 7.1 canali |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Velocità di trasferimento dati fino a 600 MB / s |
| IEEE 1394 | VT6315N | 1394a |
| Alloggi | Alloggio PCI x2 Alloggio PCI Express Gen2 x16 x2 Alloggio PCI Express Gen2 x1 x2 | |

| SPECIFICA | | | |
|----------------------------------|---------------------------------------|-----|---|
| Connettori su scheda | Connettore SATA3 | x2 | Ciascun connettore supporta 1 unità SATA3 |
| | Connettore SATA2 | x3 | Ciascun connettore supporta 1 unità SATA2 |
| | Connettore pannello frontale | x1 | Supporta i servizi del pannello frontale |
| | Connettore audio frontale | x1 | Supporta la funzione audio pannello frontale |
| | Collettore ventolina CPU | x1 | Alimentazione ventolina CPU (con funzione Smart Fan) |
| | Collettore ventolina sistema | x2 | Alimentazione ventolina di sistema |
| | Collettore cancellazione CMOS | x1 | |
| | Connettore USB2.0 | x3 | Ciascun connettore supporta 2 porte USB2.0 pannello frontale |
| | Connettore IR del consumatore | x1 | |
| | Porta seriale | x1 | |
| | Connettore IEEE 1394 | x1 | |
| | Connettore output S/PDIF | x1 | Supporta la funzione d'output audio digitale |
| | Connettore alimentazione (24 pin) | x1 | |
| Connettore alimentazione (8 pin) | x2 | | |
| I/O pannello posteriore | Tastiera PS/2 | x1 | |
| | RCA + S/PDIF Fuori | x1 | |
| | Porta 1394 | x1 | |
| | Porta eSATA | x1 | |
| | Porta LAN | x1 | |
| | Porta USB2.0 | x6 | |
| | Porta USB3.0 | x2 | USB3.0 dispositivi (da NEC uPD720200 / ASM1042) USB2.0/USB1.X dispositivi (da P67) |
| Connettore audio | x6 | | |
| Dimensioni scheda | 244 mm (larghezza) x 305 mm (altezza) | ATX | |
| Sistemi operativi supportati | Windows XP / Vista / 7 | | Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso. |

SPANISH

| <i>Especificación</i> | | |
|-----------------------|---|---|
| CPU | Socket 1155 Procesador Intel Core i7 / i5 / i3 / Pentium / Celeron | Admite Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización / Hyper Threading |
| Conjunto de chips | Intel P67 | |
| Súper E/S | IT8728 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 DDR3 x 4 Capacidad máxima de memoria de 16GB Cada DIMM admite DDR de 512MB/1GB/2GB/4GB | Módulo de memoria DDR3 de canal Doble Admite DDR3 de 1066 / 1333 Admite DDR3 de 1600(OC) / 1866(OC) / 2133(OC) No admite DIMM registrados o DIMM compatibles con ECC |
| SATA 2 & 3 | Controlador ATA Serie Integrado | Tasas de transferencia de hasta 3.0 Gb/s / 6.0 Gb/s. Compatible con la versión SATA 2.0 / 3.0. |
| Red Local | Realtek RTL 8111E | Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex |
| Soporte de sonido HD | ALC892 | Soporte de sonido de Alta Definición Salida de sonido de 7.1 canales |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Tasas de transferencia de datos hasta 600 MB / s |
| IEEE 1394 | VT6315N | 1394a |
| Ranuras | Ranura PCI X2 Ranura PCI Express Gen2 x16 X2 Ranura PCI Express Gen2 x 1 X2 | |

| Especificación | | | |
|------------------------------|--|-----|--|
| Conectores en placa | Conector SATA3 | X2 | Cada conector soporta 1 dispositivos SATA3 |
| | Conector SATA2 | X3 | Cada conector soporta 1 dispositivos SATA2 |
| | Conector de panel frontal | X1 | Soporta instalaciones en el panel frontal |
| | Conector de sonido frontal | X1 | Soporta funciones de sonido en el panel frontal |
| | Cabecera de ventilador de CPU | X1 | Fuente de alimentación de ventilador de CPU (con función Smart Fan) |
| | Cabecera de ventilador de sistema | X2 | Fuente de alimentación de ventilador de sistema |
| | Cabecera de borrado de CMOS | X1 | |
| | Conector USB2.0 | X3 | Cada conector soporta 2 puertos USB2.0 frontales |
| | Conector de IR del consumidor | X1 | |
| | Puerto serie | X1 | |
| | Cabecera IEEE 1394 | x1 | |
| | Conector de salida S/PDIF | X1 | Soporta función de salida de sonido digital |
| | Conector de alimentación (24 patillas) | X1 | |
| | Conector de alimentación (8 patillas) | X2 | |
| Panel trasero de E/S | Teclado PS/2 | X1 | |
| | RCA + Salida S/PDIF | x1 | |
| | Puerto 1394 | x1 | |
| | Puerto eSATA | X1 | |
| | Puerto de red local | X1 | |
| | Puerto USB2.0 | X6 | |
| | Puerto USB3.0 | X2 | USB3.0 dispositivos (por NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X dispositivos (por P67) |
| Conector de sonido | X6 | | |
| Tamaño de la placa | 244 mm. (A) X 305 Mm. (H) | ATX | |
| Soporte de sistema operativo | Windows XP / Vista / 7 | | Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo. |

PORTUGUESE

| ESPECIFICAÇÕES | | |
|--------------------------------------|--|--|
| CPU | Socket 1155 Processador Intel Core i7 / i5 / i3 / Pentium / Celeron | Suporta as tecnologias Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization / Hyper Threading |
| Chipset | Intel P67 | |
| Especificação do Super I/O | IT8728 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 Capacidade máxima de memória: 16 GB Cada módulo DIMM suporta uma memória DDR3 de 512MB/ 1GB/2GB/4GB | Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 1066 / 1333 Suporta módulos DDR3 1600 (OC) / 1866 (OC) / 2133 (OC) Os módulos DIMM registados e os DIMM ECC não são suportados |
| SATA 2 & 3 | Controlador Serial ATA integrado | Velocidades de transmissão de dados até 3.0 Gb/s / 6.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0 / 3.0. |
| LAN | Realtek RTL 8111E | Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex |
| Suporte para áudio de alta definição | ALC892 | Suporta a especificação High-Definition Audio Saída de áudio de 7.1 canais |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Taxas de transferência de dados até 600 MB / s |
| IEEE 1394 | VT6315N | 1394a |
| Ranuras | Ranhura PCI x2 Ranhura PCI Express Gen2 x16 x2 Ranhura PCI Express Gen2 x 1 x2 | |

| ESPECIFICAÇÕES | | | |
|------------------------------------|------------------------------------|-----|---|
| Conectores na placa | Conector SATA3 | x2 | Cada conector suporta 1 dispositivo SATA3 |
| | Conector SATA2 | x3 | Cada conector suporta 1 dispositivo SATA2 |
| | Conector do painel frontal | x1 | Para suporte de várias funções no painel frontal |
| | Conector de áudio frontal | x1 | Suporta a função de áudio no painel frontal |
| | Conector da ventoinha da CPU | x1 | Alimentação da ventoinha da CPU (com a função Smart Fan) |
| | Conector da ventoinha do sistema | x2 | Alimentação da ventoinha do sistema |
| | Conector para limpeza do CMOS | x1 | |
| | Conector USB2.0 | x3 | Cada conector suporta 2 portas USB2.0 no painel frontal |
| | Conector de IR do consumidor | x1 | |
| | Porta série | x1 | |
| | Conector IEEE 1394 | x1 | |
| | Conector de saída S/PDIF | x1 | Suporta a saída de áudio digital |
| | Conector de alimentação (24 pinos) | x1 | |
| Conector de alimentação (8 pinos) | x2 | | |
| Entradas/Saídas no painel traseiro | Teclado PS/2 | x1 | |
| | RCA + Saída S/PDIF | x1 | |
| | Porta 1394 | x1 | |
| | Porta eSATA | x1 | |
| | Porta LAN | x1 | |
| | Porta USB2.0 | x6 | |
| | Porta USB3.0 | x2 | USB3.0 dispositivos (por NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X dispositivos (por P67) |
| Tomada de áudio | x6 | | |
| Tamanho da placa | 244 mm (L) X 305 mm (A) | ATX | |
| Sistemas operativos suportados | Windows XP / Vista / 7 | | A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio. |

POLISH

| <i>SPEC</i> | | |
|------------------|--|---|
| Procesor | Socket 1155 Procesor Intel Core i7 / i5 / i3 / Pentium / Celeron | Obsługa Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading |
| Chipset | Intel P67 | |
| Pamięć główna | Gniazda DDR3 DIMM x 4 Maks. wielkość pamięci 16GB Każde gniazdo DIMM obsługuje moduły 512MB/1GB/2GB/4GB DDR3 | Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 1066 / 1333 Obsługa DDR3 1600 (OC) / 1866 (OC) / 2133 (OC) Brak obsługi Registered DIMM oraz ECC DIMM |
| Super I/O | IT8728 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" |
| SATA 2 & 3 | Zintegrowany kontroler Serial ATA | Transfer danych do 3.0 Gb/s / 6.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0 / 3.0. |
| LAN | Realtek RTL 8111E | 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie półowicznego / pełnego duplexu |
| Obsługa audio HD | ALC892 | Obsługa High-Definition Audio 7.1 kanałowe wyjście audio |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | Cena transferu danych do 600 MB / s |
| IEEE 1394 | VT6315N | 1394a |
| Gniazda | Gniazdo PCI x2 Gniazdo PCI Express Gen2 x16 x2 Gniazdo PCI Express Gen2 x 1 x2 | |

| SPEC | | | |
|------------------------------|---|-----|---|
| Złącza wbudowane | Złącze SATA3 | x2 | Każde złącze obsługuje 1 urządzenie SATA3 |
| | Złącze SATA2 | x3 | Każde złącze obsługuje 1 urządzenie SATA2 |
| | Złącze panela przedniego | x1 | Obsługa elementów panela przedniego |
| | Przednie złącze audio | x1 | Obsługa funkcji audio na panelu przednim |
| | Złącze główkowe wentylatora procesora | x1 | Zasilanie wentylatora procesora (z funkcją Smart Fan) |
| | Złącze główkowe wentylatora systemowego | x2 | Zasilanie wentylatora systemowego |
| | Złącze główkowe kasowania CMOS | x1 | |
| | Złącze USB2.0 | x3 | Każde złącze obsługuje 2 porty USB2.0 na panelu przednim |
| | Złącze Konsument IR | x1 | |
| | Port szeregowy | x1 | |
| | Złącze IEEE 1394 | x1 | |
| | Złącze wyjścia S/PDIF | x1 | Obsługa funkcji cyfrowego wyjścia audio |
| | Złącze zasilania (24 pinowe) | x1 | |
| Złącze zasilania (8 pinowe) | x2 | | |
| Back Panel I/O | Klawiatura PS/2 | x1 | |
| | RCA + wyjścia S/PDIF | x1 | |
| | Port 1394 | x1 | |
| | Port eSATA | x1 | |
| | Port LAN | x1 | |
| | Port USB2.0 | x6 | |
| | Port USB3.0 | x2 | USB3.0 urządzeń (przez NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X urządzeń (przez P67) |
| Gniazdo audio | x6 | | |
| Wymiary płyty | 244 mm (S) X 305 mm (W) | ATX | |
| Obsługa systemu operacyjnego | Windows XP / Vista / 7 | | Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia. |

RUSSIAN

| СПЕЦ | | |
|-----------------------------------|--|--|
| CPU (центральный процессор) | Socket 1155 Процессор Intel Core i7 / i5 / i3 / Pentium / Celeron | Поддержка технологий Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация / Hyper Threading |
| Набор микросхем | Intel P67 | |
| Основная память | Слоты DDR3 DIMM x 4 Максимальная ёмкость памяти 16 ГБ Каждый модуль DIMM поддерживает 512МБ/1ГБ/2ГБ/4ГБ DDR3 | Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 1066 / 1333 Поддержка DDR3 1600(OC) / 1866(OC) / 2133(OC) Не поддерживает зарегистрированные модули DIMM and ECC DIMM |
| Super I/O | IT8728 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) |
| SATA 2 & 3 | Встроенное последовательное устройство управления ATA | скорость передачи данных до 3.0 гигабит/с / 6.0 гигабит/с. Соответствие спецификации SATA версия 2.0/3.0 |
| Локальная сеть | Realtek RTL 8111E | Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность |
| Звуковая поддержка жесткого диска | ALC892 | Звуковая поддержка High-Definition 7.1канальный звуковой выход |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | скорости передачи данных до 600 МБ / с |
| IEEE 1394 | VT6315N | 1394a |
| Слоты | Слот PCI x2 Слот PCI Express Gen2 x16 x2 Слот PCI Express Gen2 x 1 x2 | |

| СПЕЦ | | | |
|---|---|--|---|
| Встроенны й разъем | Разъем SATA3 | x2 | Каждый разъем поддерживает 1 устройство SATA3 |
| | Разъем SATA2 | x3 | Каждый разъем поддерживает 1 устройство SATA2 |
| | Разъем на лицевой панели | x1 | Поддержка устройств на лицевой панели |
| | Входной звуковой разъем | x1 | Поддержка звуковых функций на лицевой панели |
| | Контактирующее приспособление вентилятора центрального процессора | x1 | Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора) |
| | Контактирующее приспособление вентилятора системы | x2 | Источник питания для вентилятора системы |
| | Открытое контактирующее приспособление CMOS | x1 | |
| | USB2.0-разъем | x3 | Каждый разъем поддерживает 2 USB2.0-порта на лицевой панели |
| | Разъем едока ИКЫЙ | x1 | |
| | Последовательный порт | x1 | |
| | IEEE 1394-разъем | x1 | |
| | Разъем вывода для S/PDIF | x1 | Поддержка вывода цифровой звуковой функции |
| | Разъем питания (24 вывод) | x1 | |
| Разъем питания (8 вывод) | x2 | | |
| Задняя панель средств ввода-выв ода | Клавиатура PS/2 | x1 | |
| | RCA + вывода для S/PDIF | x1 | |
| | 1394-порт | x1 | |
| | eSATA порт | x1 | |
| | Порт LAN | x1 | |
| | USB2.0-порт | x6 | |
| USB3.0-порт | x2 | USB3.0 устройств (по NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.X устройств (по P67) | |
| Гнездо для подключения наушников | x6 | | |
| Размер панели | 244 мм (Ш) X 305 мм (В) | ATX | |
| Поддержка OS | Windows XP / Vista / 7 | Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления. | |

ARABIC

| المواصفات | | |
|--|---|---------------------------|
| Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading | Socket 1155 وحدة المعالجة المركزية Intel Core i7 / i5 / i3 / Pentium / Celeron يتردد يصل إلى | |
| | Intel P67 | مجموعة الشرائح |
| عدد 4 قناة DDR3 DIMM سعة ذاكرة قصوى 16 جيجا بايت ميجا بايت و 1/5/12 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل قناة و2/4 جيجا بايت | مزنوجة القاعة DDR3 وحدة ذاكرة سعت 1333 / 1066 ميجا بايت DDR3 تدعم الذاكرة من نوع 1866 (OC) / 2133 ميجا بايت DDR3 نوع من الذاكرة تدعم بايت ميجا (OC) / 1600 (OC) ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة | الذاكرة الرئيسية |
| وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة | IT8728 الأكثر استخداماً. Super I/O وظيفة Low Pin Count Interface تدعم تقنية | Super I/O |
| 6.0 / ثنائية/جيجا بايت 3.0 إلى تصل بسرعات البيانات نقل ثنائية/جيجا بايت 3.0 / 2.0 الإصدار SATA مطابقة لمواصفات | متكامل Serial ATA بحكم | SATA 2 & 3 |
| تفاوض تلقائي 100/10 ميجا بايت / ثنائية و1 جيجا بايت/ثنائية إمكانية النقل المزدوج الكامل/القصفي | Realtek RTL 8111E | شبكة داخلية |
| تدعم تقنية الصوت عالي التعريف من 7.1 قنوات لخرج الصوت | ALC892 | دعم الصوت عالي التعريف |
| ثنائية / بايت ميجا 600 إلى تصل بيانات نقل معدلات 1394a | NEC uPD720200 / Asmedia ASM1042 | USB3.0 |
| | VT6315N | IEEE 1394 |
| عدد 2 | قناة PCI | |
| عدد 2 | قناة PCI Express x16 Gen2 | القنوات |
| عدد 2 | قناة PCI Express Gen2 x 1 | |

| المواصفات | | | |
|---|-------|---|-------------------|
| يدعم كل منفذ واحد من أجهزة SATA3 | عدد 2 | منفذ SATA3 | |
| يدعم كل منفذ واحد من أجهزة SATA2 | عدد 3 | منفذ SATA2 | |
| يدعم تجهيزات اللوحة الأممية | عدد 1 | منفذ اللوحة الأممية | |
| يدعم وظيفة الصوت باللوحة الأممية | عدد 1 | منفذ الصوت الأممي | |
| Smart Fan لتوصيل الطلقة لمروحة وحدة المعالجة مع وظيفة | عدد 1 | وصلة مروحة وحدة المعالجة المركزية | |
| لتوصيل الطلقة لمروحة النظام | عدد 2 | وصلة مروحة النظام | |
| | عدد 1 | وصلة مسح CMOS | المنفذ على سطح |
| يدعم كل منفذ قحتي USB2.0 باللوحة الأممية | عدد 3 | منفذ USB2.0 | اللوحة |
| | عدد 1 | منفذ الأحمر تحت مستهلكة | |
| | عدد 1 | منفذ تسلسلي | |
| | عدد 1 | منفذ IEEE 1394 | |
| يدعم وظيفة خرج الصوت الرقمي | عدد 1 | منفذ خرج S/PDIF | |
| | عدد 1 | منفذ توصيل الطلقة (24دبوس) | |
| | عدد 2 | منفذ توصيل الطلقة (8دبوس) | |
| | عدد 1 | لوحة مفاتيح PS/2 | |
| | عدد 1 | RCA + S/PDIF Out | |
| | عدد 1 | منافذ 1394 | |
| | عدد 1 | منفذ eSATA | منفذ دخل/خرج |
| | عدد 1 | منفذ شبكة اتصال محلية | اللوحة الخلفية |
| | عدد 6 | منافذ USB2.0 | |
| (قبل من NEC uPD720200 / Asmedia ASM1042) | عدد 2 | منافذ USB3.0 | |
| USB3.0 لأجهزة | | | |
| (قبل من P67) | عدد 6 | منافذ USB2.0/USB1.X لأجهزة | مقيس صوت |
| ATX | | حجم اللوحة 244 مم (عرض) X 305 مم (ارتفاع) | |
| بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو احتفظ بدون إخطار. | | Windows XP / Vista / 7 | دعم أنظمة التشغيل |

JAPANESE

| 仕様 | | |
|--------------|--|---|
| CPU | Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron プロセッサ | Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threadingをサポートします |
| チップセット | Intel P67 | |
| メインメモリ | DDR3 DIMMスロット x 4 最大メモリ容量16GB 各DIMMは 512MB/1GB/2GB/4GB DDR3をサポート | デュアル チャンネルモードDDR3メモリモジュール DDR3 1066 / 1333 をサポート DDR3 1600(OC) / 1866(OC) / 2133(OC) 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 | IT8728 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 |
| SATA 2 & 3 | 統合シリアルATAコントローラ | 最高3.0 Gb/秒 / 6.0 Gb/秒のデータ転送速度 SATAバージョン2.0 / 3.0仕様に準拠。 |
| LAN | Realtek RTL 8111E | 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能 |
| HDオーディオのサポート | ALC892 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 | |
| USB3.0 | NEC uPD720200 / Asmedia ASM1042 | データ転送速度最大600 MB / 秒の |
| IEEE 1394 | VT6315N | 1394a |
| スロット | PCIスロット x2 PCI Express Gen2 x16スロット x2 PCI Express Gen2 x 1スロット x2 | |

| 仕様 | | | |
|-------------|--------------------------|---|--|
| オンボードコネクタ | SATA3コネクタ | x2 | 各コネクタは1つのSATA3デバイスをサポートします |
| | SATA2コネクタ | x3 | 各コネクタは1つのSATA2デバイスをサポートします |
| | フロントパネルコネクタ | x1 | フロントパネル機能をサポートします |
| | フロントオーディオコネクタ | x1 | フロントパネルオーディオ機能をサポートします |
| | CPUファンヘッダ | x1 | CPUファン電源装置(スマートファン機能を搭載) |
| | システムファンヘッダ | x2 | システムファン電源装置 |
| | CMOSクリアヘッダ | x1 | |
| | USB2.0コネクタ | x3 | 各コネクタは2つのフロントパネルUSB2.0ポートをサポートします |
| | 消費者IRコネクタ | x1 | |
| | シリアルポート | x1 | |
| | IEEE 1394コネクタ | x1 | |
| | S/PDIFアウトコネクタ | x1 | デジタルオーディオアウト機能をサポートします |
| | 電源コネクタ(24ピン) | x1 | |
| 電源コネクタ(8ピン) | x2 | | |
| 背面パネルI/O | PS/2キーボード | x1 | |
| | RCA + S/PDIF アウト | x1 | |
| | 1394ポート | x1 | |
| | eSATAポート | x1 | |
| | LANポート | x1 | |
| | USB2.0ポート | x6 | |
| | USB3.0ポート | x2 | USB3.0デバイス (で NEC uPD720200 / Asmedia ASM1042) USB2.0/USB1.Xデバイス (で P67) |
| | オーディオジャック | x6 | |
| ボードサイズ | 244 mm (幅) X 305 mm (高さ) | ATX | |
| OSサポート | Windows XP / Vista / 7 | 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。 | |

2011/04/19