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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

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

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

1.2 PACKAGE CHECKLIST

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

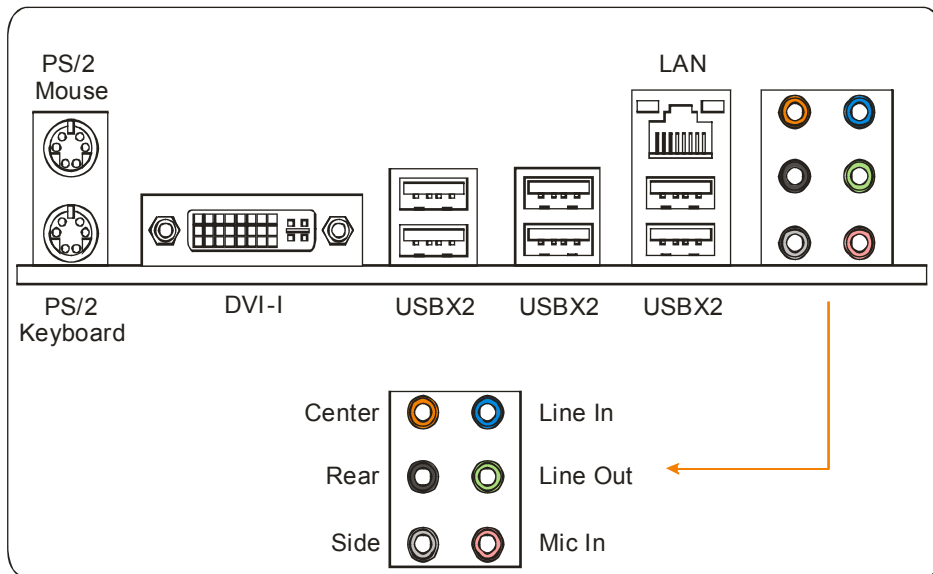
Note: The package contents may differ by area or your motherboard version.

1.3 MOTHERBOARD FEATURES

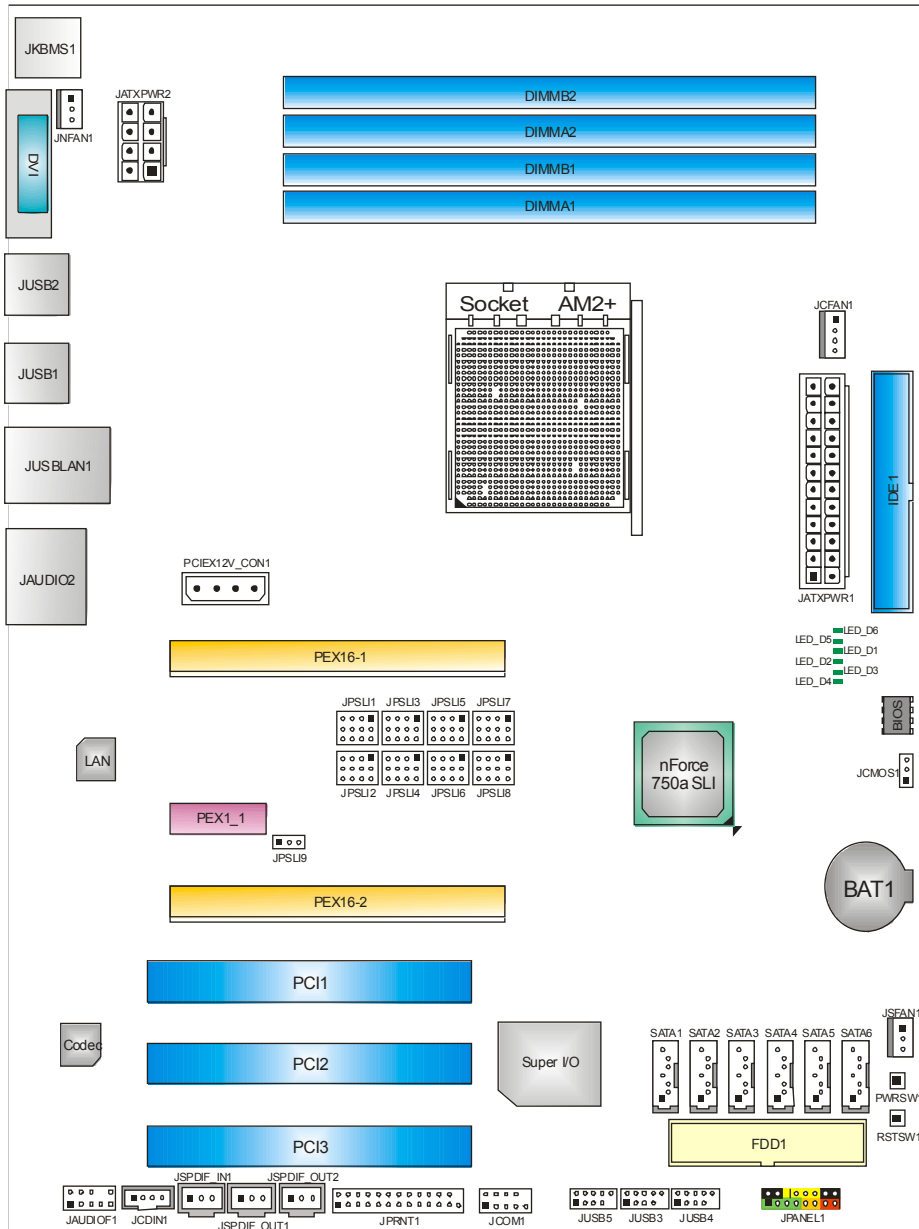
SPEC		
CPU	Socket AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 x2 / Sempron / Phenom processors	AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool'n'Quiet
FSB	Support HyperTransport 3.0 Supports up to 5.2 GT/s Bandwidth	
Chipset	nForce 750a SLI	
Super I/O	ITE 8718F Provides the most commonly used legacy Super I/O functionality. Low Pin Count Interface	Environment Control initiatives, H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 4 Each DIMM supports 256MB/512MB/ 1GB/2GB/4GB DDR2 Max Memory Capacity 16GB	Dual Channel Mode DDR2 memory module Supports DDR2 533 / 667 / 800 Supports DDR2 1066 (by AM2+ CPU) Registered DIMM and ECC DIMM is not supported
Graphics	Integrated in nForce 750a SLI Chipset	Max Shared Video Memory is 512MB (under OS)
IDE	Integrated IDE Controller	Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4
SATA II	Integrated Serial ATA Controller	Data transfer rates up to 3 Gb/s. SATA Version 2.0 specification compliant.
LAN	Realtek RTL 8111C	10 / 100 / 1000 Mb/s auto negotiation Half / Full duplex capability
Sound	ALC888S	7.1 channels audio out Supports HD Audio
Slots	PCI slot x3 PCI Express Gen2 x16 slot (x16/x8) x1 PCI Express Gen2 x16 slot (x8) x1 PCI Express Gen2 x1 slot x1	Supports PCI expansion cards Supports PCI-E Gen2 x16 expansion cards Supports PCI-E Gen2 x16 expansion cards Supports PCI-E Gen2 x1 expansion cards
On Board Connector	Floppy connector x1 Printer Port connector x1 IDE Connector x1 SATA Connector x6 Front Panel Connector x1 Front Audio Connector x1 CD-in Connector x1 S/PDIF out connector x2 S/PDIF in connector x1	Each connector supports 2 Floppy drives Each connector supports 1 Printer port Each connector supports 2 IDE device Each connector supports 1 SATA devices Supports front panel facilities Supports front panel audio function Supports CD audio-in function Supports digital audio out function Supports digital audio-in function

SPEC			
	CPU Fan header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan header	x2	System Fan Power supply
	CMOS clear header	x1	Restore CMOS data to factory default
	USB connector	x3	Each connector supports 2 front panel USB ports
	Serial port Connector	x1	Connects to RS-232 Port
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (8pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
Back Panel I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	LAN port	x1	Connect to RJ-45 ethernet cable
	USB Port	x6	Connect to USB devices
	Audio Jack	x6	Provide Audio-In/Out and microphone connection
	DVI-I port	x1	Connect to DVI monitor
Board Size	244 mm (W) x 305 mm (L)		
Special Features	RAID 0 / 1 / 5 / 0+1 support Hybrid SLI support (by nVIDIA driver)		
OS Support	Windows XP / VISTA		Biostar Reserves the right to add or remove support for any OS With or without notice.

1.4 REAR PANEL CONNECTORS



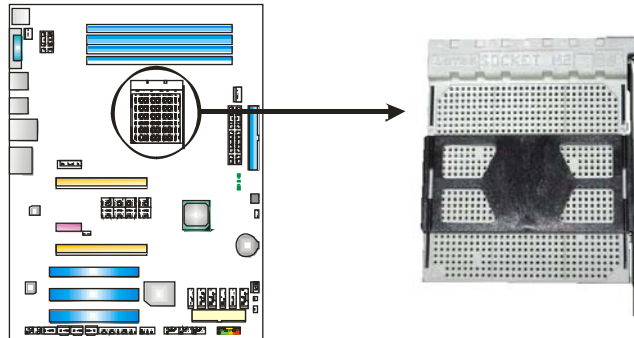
1.5 MOTHERBOARD LAYOUT



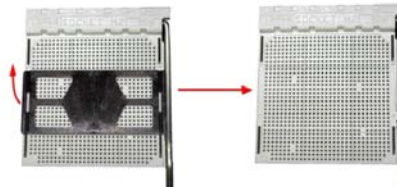
Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

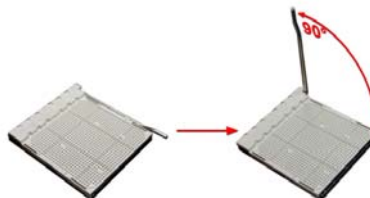
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



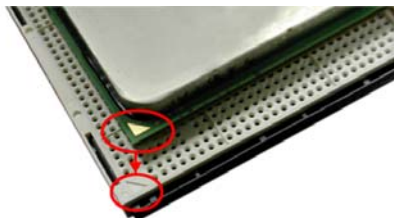
Step 1: Remove the socket protection cap.



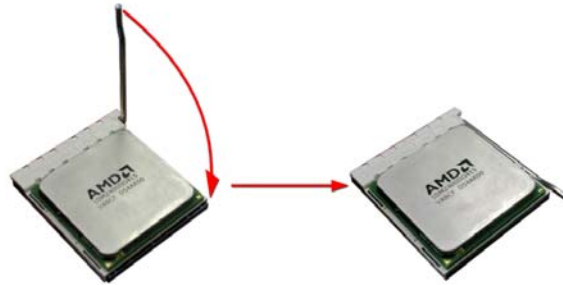
Step 2: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.



Step 3: Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.



Step 4: Hold the CPU down firmly, and then close the lever toward direct B to complete the installation.



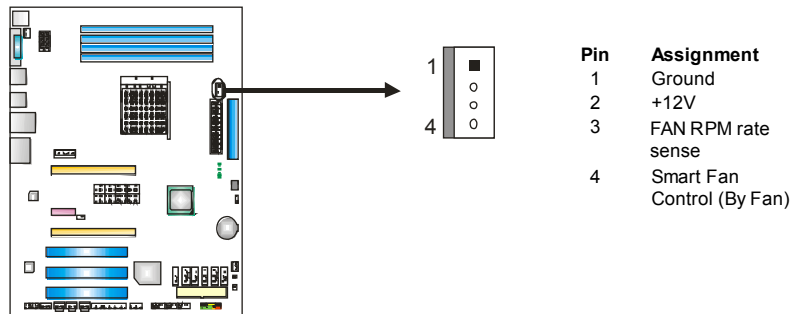
Step 5: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the JCFAN1. This completes the installation.

Note: Please update the BIOS to the latest version while using AM2+ CPUs. Due to the latest CPU transition, you may encounter the situation that the new system failed to boot while using new AM2+ CPUs. In this case, please install one standard AM2 CPU to boot your system, and update the latest BIOS from our website for AM2+ CPUs support.

2.2 FAN HEADERS

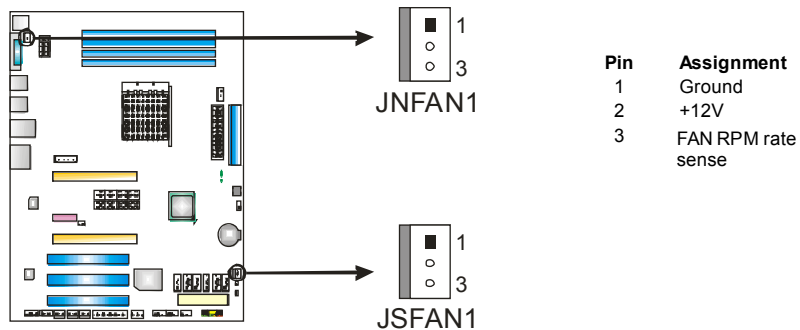
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

JCFAN1: CPU Fan Header



JSFAN1: System Fan Header

JNFAN1: Chipset Fan Header

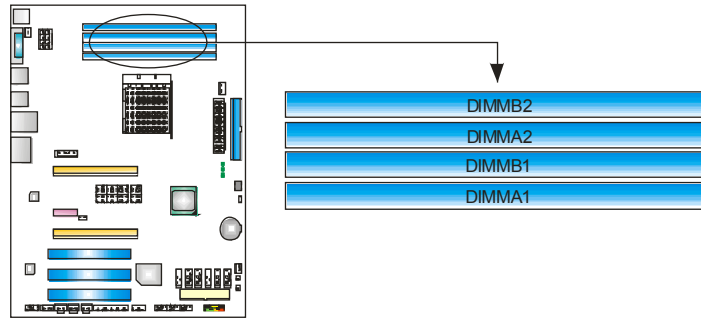


Note:

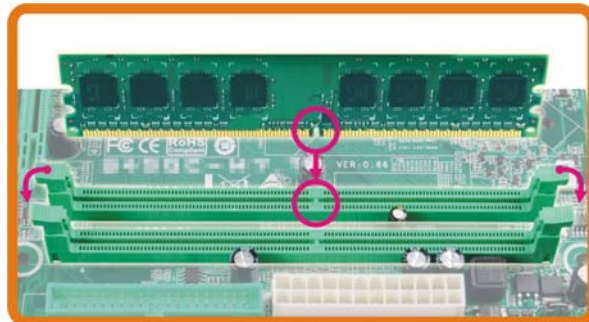
The JCFAN1 and JSFAN1/JNFAN1 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

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	DDR2 Module	Total Memory Size
DIMMA1	256MB/512MB/1GB/2GB/4GB	Max is 16GB.
DIMMB1	256MB/512MB/1GB/2GB/4GB	
DIMMA2	256MB/512MB/1GB/2GB/4GB	
DIMMB2	256MB/512MB/1GB/2GB/4GB	

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	DIMMA1	DIMMB1	DIMMA2	DIMMB2
Enabled	O	O	X	X
Enabled	X	X	O	O
Enabled	O	O	O	O

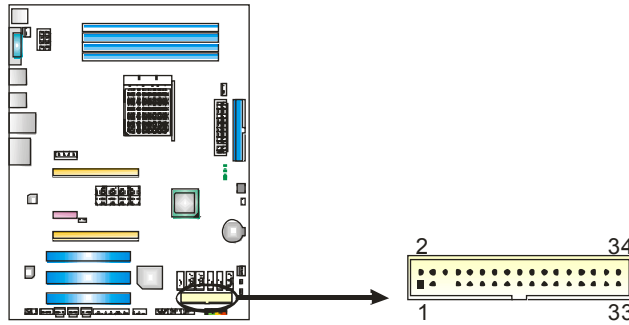
(O means memory installed, X means memory not installed.)

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

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

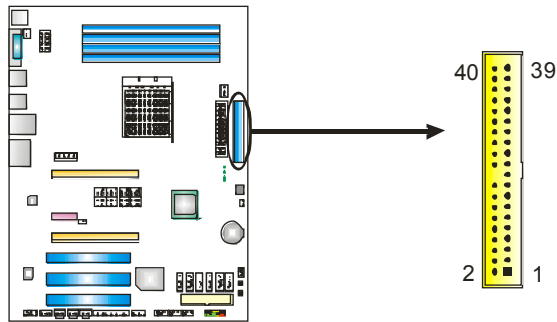
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE1: Hard Disk Connector

The motherboard has a 32-bit Enhanced 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 Gen2 x16(x16/SLI x8 Speed) Slot

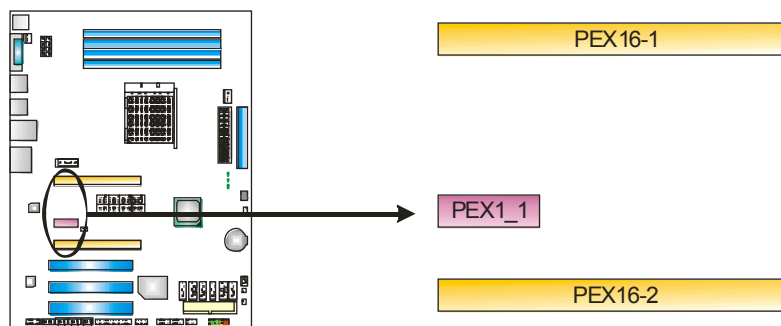
- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s(4GB/s SLI) simultaneously per direction, for an aggregate of 16GB/s(8GB/s SLI) totally.
- PEX16-1 slot is reserved for graphics or video cards. The design of this motherboard supports dual PCI-Express graphics cards using NVIDIA's SLI technology with multiple displays. When using SLI, this slot is master and runs with x8 speed.
- To configure for SLI, please refer to the instructions of configuring JP SL11~JP SL19.

PEX16-2: PCI-Express Gen2 x16(NC/SLI x8 Speed) Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.
- PEX16-2 slot is reserved for graphics or video cards. The design of this motherboard supports dual PCI-Express graphics cards using NVIDIA's SLI technology with multiple displays. This slot is slave when using SLI. If PEX16-1 is set to x16 speed, then PEX16-2 would not be functional.

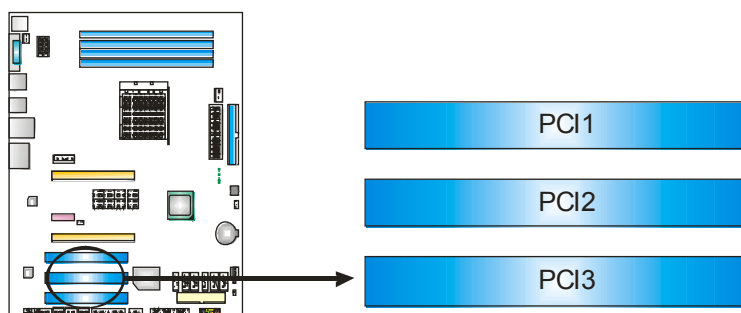
PEX1_1: PCI-Express Gen2 x1 Slot

- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 500MB/s per direction; 1GB/s in total.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.
- 2X bandwidth over the PCI-Express 1.0 architecture.



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

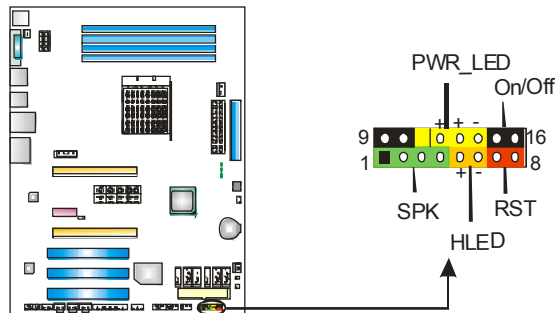
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

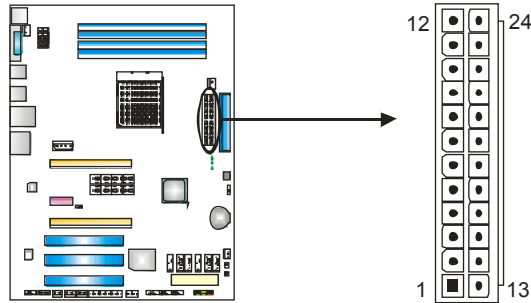
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



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

JATXPWR1: ATX Power Source Connector

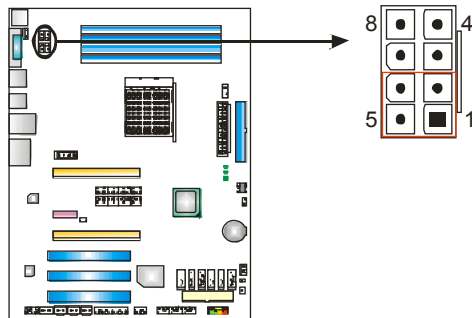
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

JATXPWR2: ATX Power Source Connector

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



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

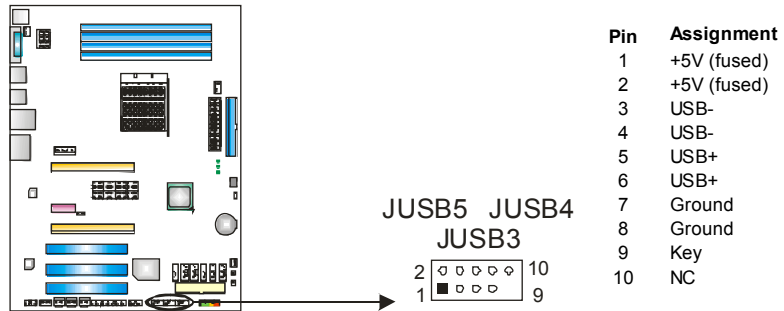
Note:

Before power on the system, please make sure that both JATXPWR1 and JATXPWR2 connectors have been plugged-in.

If the CPU power plug is 4-pin, please plug it into Pin 1-2-5-6 of JATXPWR2.

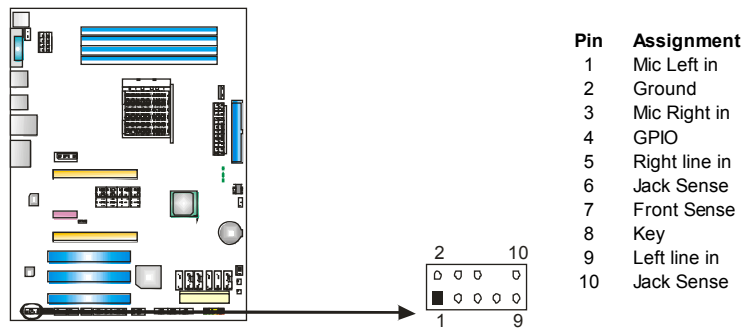
JUSB3~JUSB5: Headers for USB 2.0 Ports at Front Panel

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.



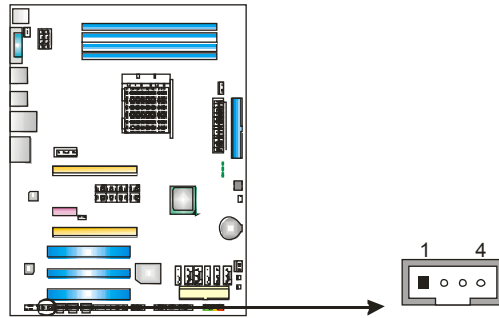
JAUDIOF1: Front Panel Audio Header

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.



JCDIN1: CD-ROM Audio-in Connector

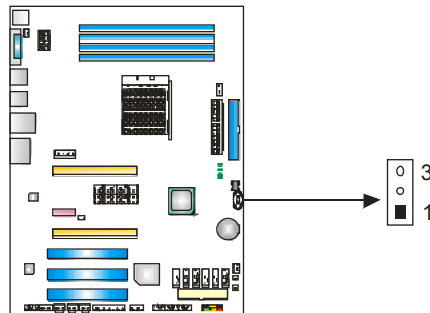
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc.



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).



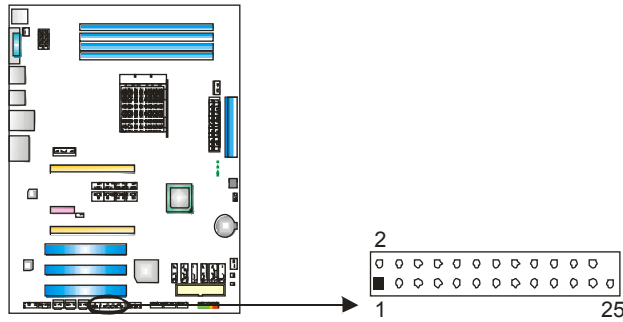
Pin 2-3 Close:
Clear CMOS data.

※ 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.

JPRNT1: Printer Port Connector

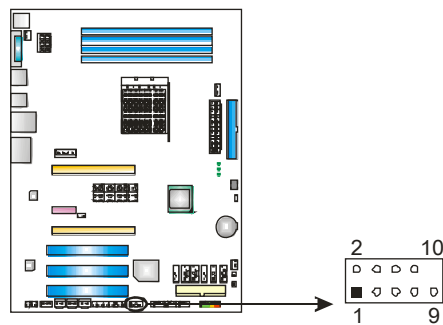
This header allows you to connector printer on the PC.



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

JCOM1: Serial port Connector

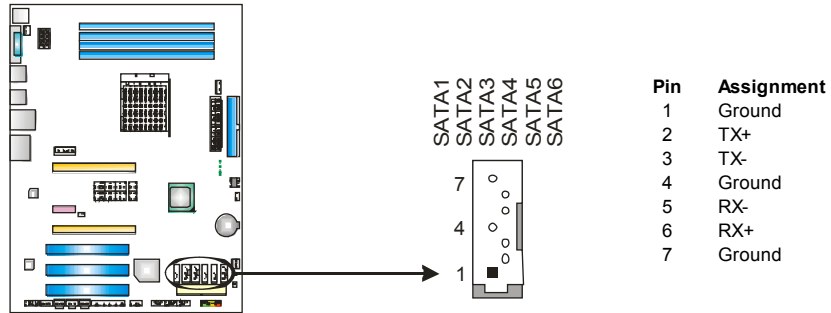
The motherboard has a Serial Port Connector for connecting RS-232 Port.



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

SATA1~SATA6: Serial ATA Connectors

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

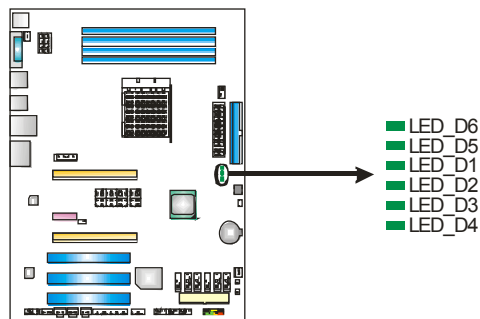


Note:

Due to the chipset's specification, SATA5 and SATA6 do not support SATA mode, only support AHCI+RAID mode.

On-Board LED Indicators

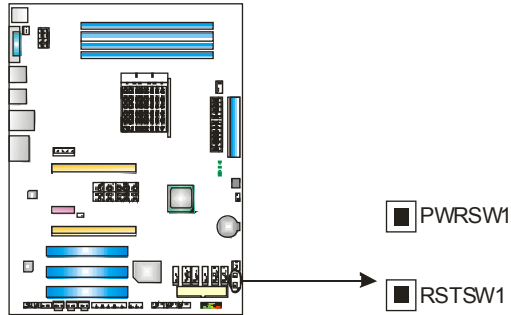
There are 6 LED indicators on the motherboard to show system status. Each LED represents different system item, and lighted LED means that system item is in normal status.



	LED Status	Meaning
LED_D6	OFF	Power Supply Error
LED_D5	OFF	CPU Power Error
LED_D1	OFF	CPU Error
LED_D2	OFF	Memory Error
LED_D3	OFF	VGA Error
LED_D4	OFF	Hard Disk Error

On-Board Buttons

There are 2 on-board buttons.



PWRSW1:

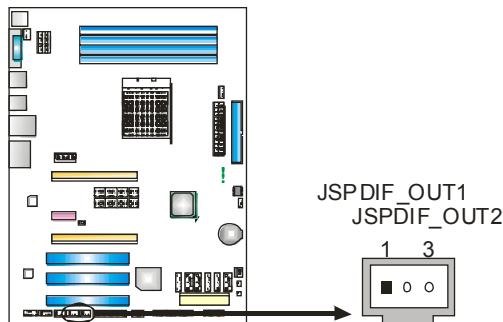
This is an on-board Power Switch button.

RSTSW1:

This is an on-board Reset button.

JSPDIF_OUT1/JSPDIF_OUT2: Digital Audio-out Connectors

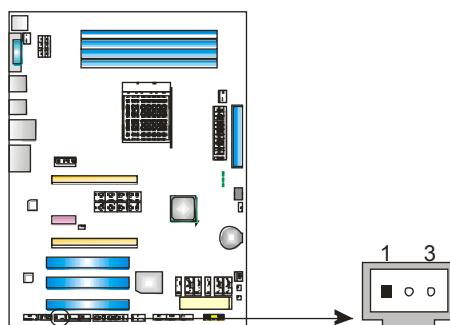
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

JSPDIF_IN1: Digital Audio-in Connector

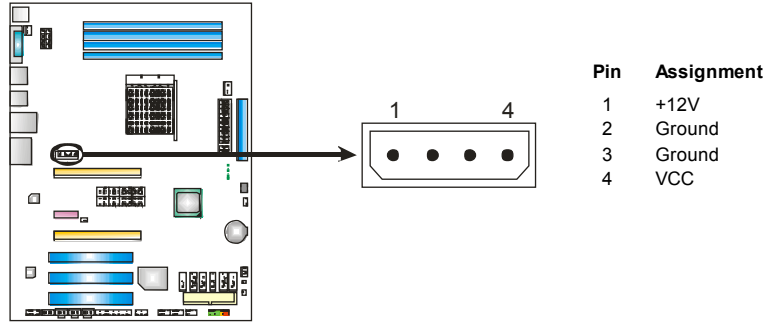
This connector allows user to connect the PCI bracket SPDIF input header.



Pin	Assignment
1	+5V
2	SPDIF_IN
3	Ground

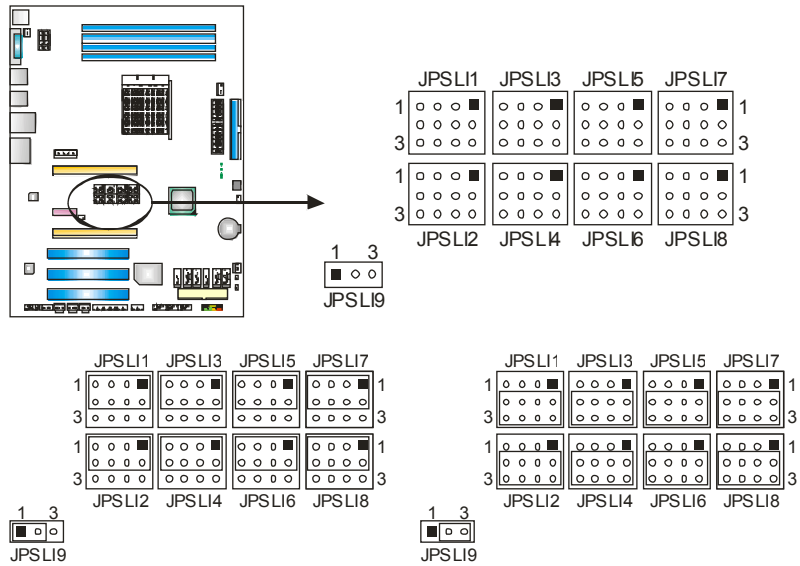
PCIEX12V_CON1: Auxiliary Power for Graphics

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



JPSLI1~JPSLI9: SLI Switch Jumpers

The setting of these jumpers determines the operation mode of PEX16-1 and PEX16-2. If you want to use the SLI function, these jumpers should be set to Pin 2-3 close; and PEX16-1 and PEX16-2 will both run with x8 speed. If these jumpers are set to Pin 1-2 close, PEX16-1 will run with x16 speed and PEX16-2 will not be functional.



Pin 1-2 Close
 Normal Operation
 PEX16-1: x16 Speed
 PEX16-2: Not Functional

Pin 2-3 Close:
 SLI Operation
 PEX16-1: x8 Speed
 PEX16-2: x8 Speed

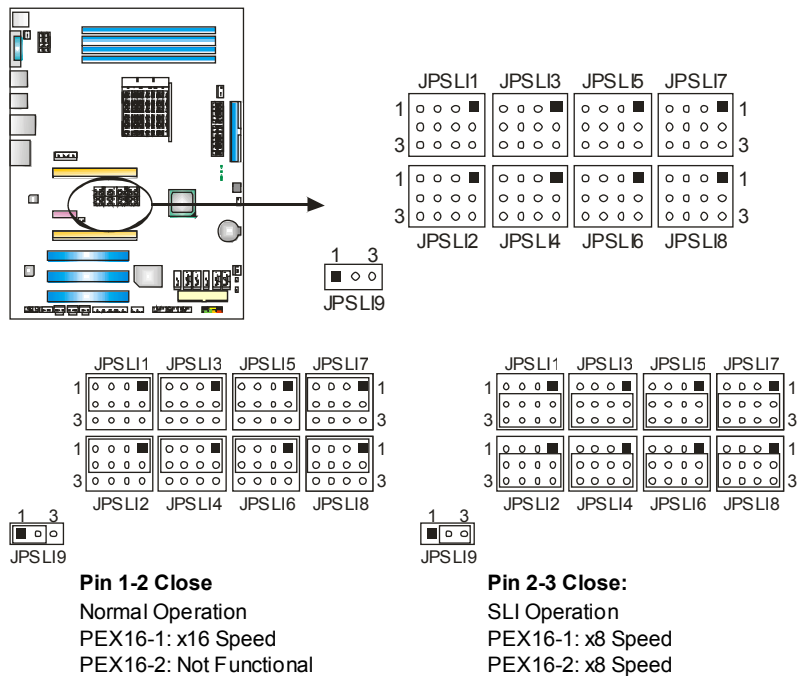
CHAPTER 4: NVIDIA SLI FUNCTION

4.1 REQUIREMENTS

- Only Windows XP/Vista supports SLI (Dual Video) function.
- Two identical SLI-ready graphics cards that are NVIDIA certified.
- The graphics card driver should support NVIDIA SLI technology.
- The power supply unit must provide at least the minimum power required by the system, or the system will be unstable.

4.2 INSTALLING SLI-READY GRAPHICS CARDS

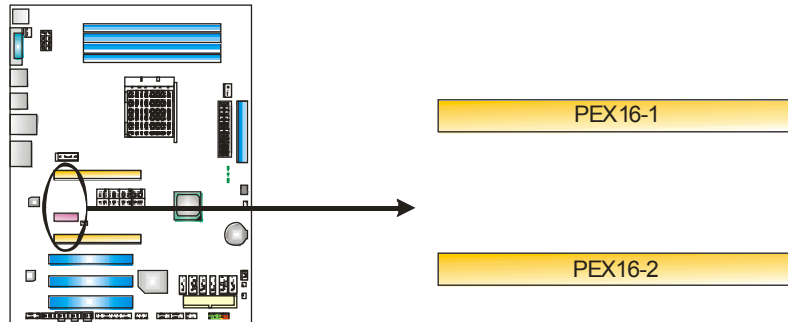
Step 1: Power off the computer and set JP SLI1~JP SLI9 to Pin2-3 close.



Step 2: Prepare two graphics cards with PCI-E x16 interface.

Step 3: Insert the first one graphics card into PEX16-1(Master).

Step 4: Insert the second graphics card into PEX16-2(Slave).



Notice: Make sure both the graphics cards are seated into slots completely.

Step 5: Connect a 4-pin ATX power cable to PEX power connector (PCIEX12V_CON1), this will ensure the stabilization of your system.

Notice:
When under SLI mode, please make sure the power supply is at least 500W or above.



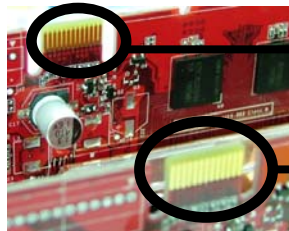
Step 6: Insert the SLI Bridge connector on the gold-fingers on each graphics card.



Front view



Side view



Gold-fingers on two graphic cards

Step 7: To securely fix the connector between two graphics cards, a retention bracket must be installed.

Step 7-1: Remove any of the bracket cover between the two graphics cards.

Step 7-2: Align and insert the retention bracket into the slot and then fix it with a screw.

Notice:
1. Make sure the retention bracket supports the SLI Bridge firmly.
2. Retention bracket is optional

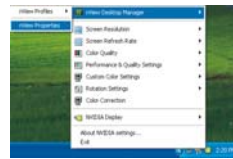
4.3 ENABLING MULTI-GPU FEATURE IN WINDOWS

After the graphics cards are installed, enable the Multi-GPU feature in NVIDIA nView properties.

Step 1:
Click NVIDIA Settings icon on the Windows taskbar.



Step 2:
Select nView Properties in nView Desktop Manager pop-up menu



Step 3:
Click Properties icon in Desktop Management tab to display Display Properties dialog box

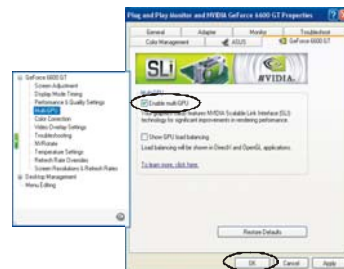


Step 4:
Click Advanced icon in Settings tab.



Step 5:
Select NVIDIA GeForce tab, and then click on Multi-GPU item on the left dialog box.

Step 6:
Check before Enable SLI multi-GPU item, and click on OK to complete the setting.



CHAPTER 5: NVIDIA RAID FUNCTIONS

5.1 OPERATION SYSTEM

Supports Windows XP and Windows VISTA.

5.2 RAID ARRAYS

NVRAID supports the following types of RAID arrays:

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

RAID 1: RAID 1 defines techniques for mirroring data.

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

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

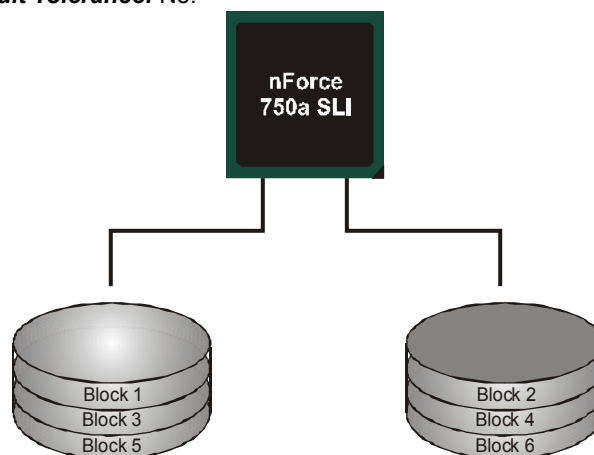
5.3 How RAID WORKS

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.

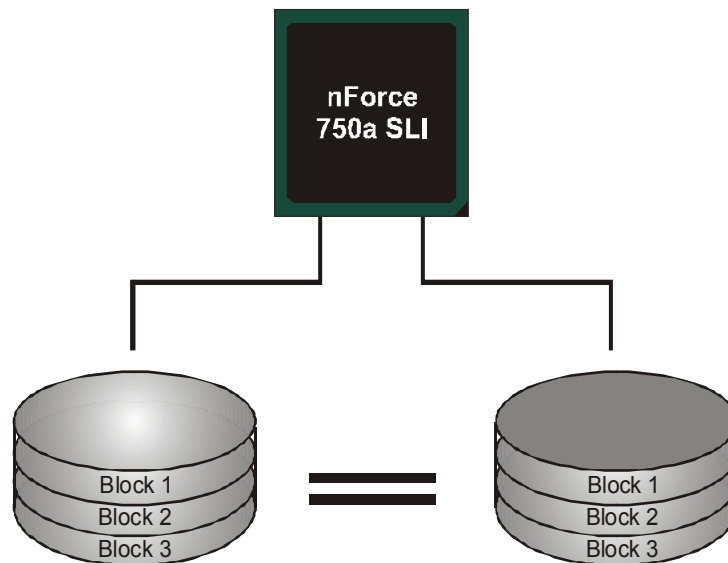


RAID 1:

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.

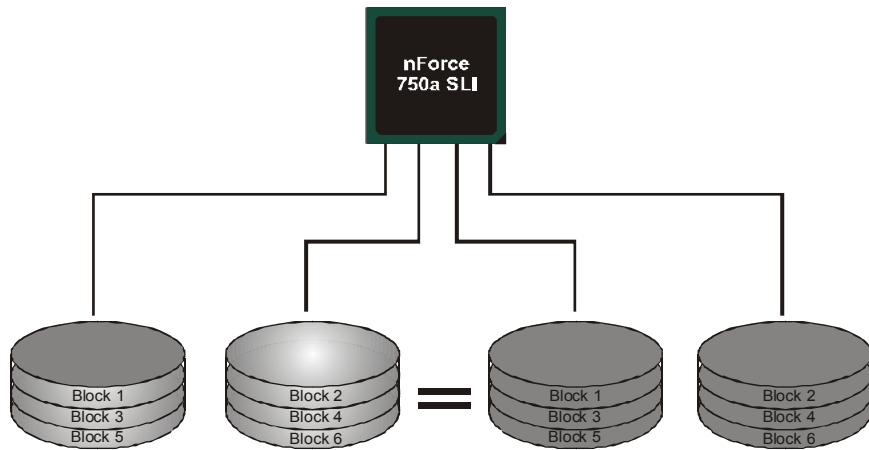


RAID 0+1:

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

Features and Benefits

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

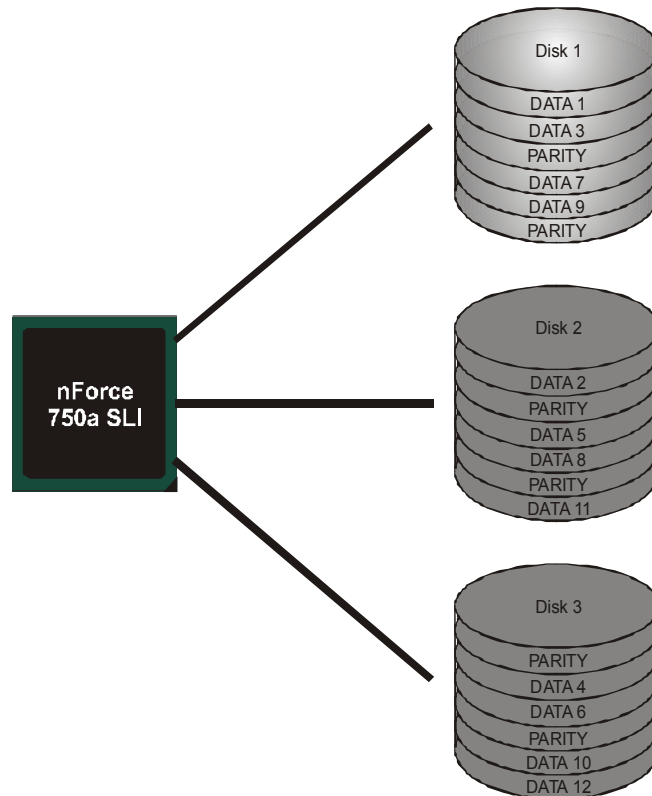


RAID 5:

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

Features and Benefits

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



※ For more detailed setup information, please refer to the Driver CD, or go to http://www.nvidia.com/object/IO_28159.html to download the NVIDIA RAID User's Guide.

CHAPTER 6: T-POWER BIOS & SOFTWARE

6.1 T-POWER BIOS

T-Power BIOS Features

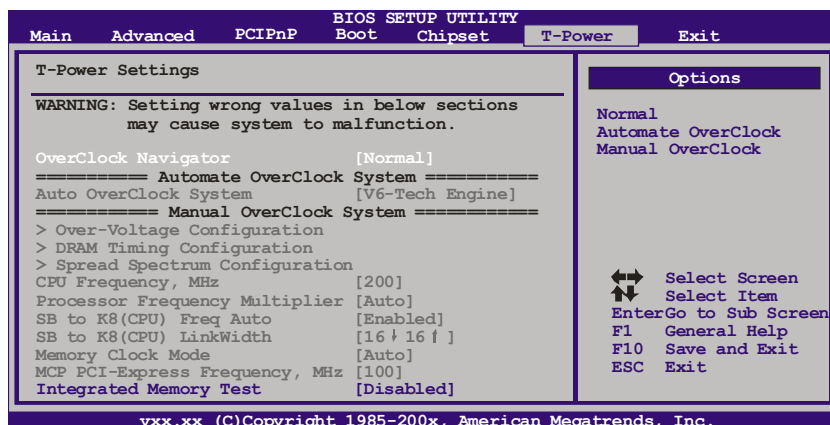
- Overclocking Navigator Engine (O.N.E.)
- Memory Integration Test (M.I.T., under Overclock Navigator Engine)
- BIO-Flasher: Update BIOS file from USB Flash Drive or FDD
- Self Recovery System (S.R.S)
- Smart Fan Function
- CMOS Reloading Program

!! 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.

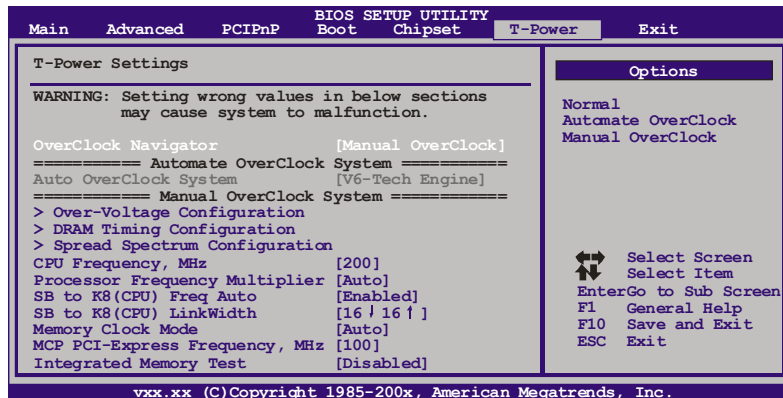
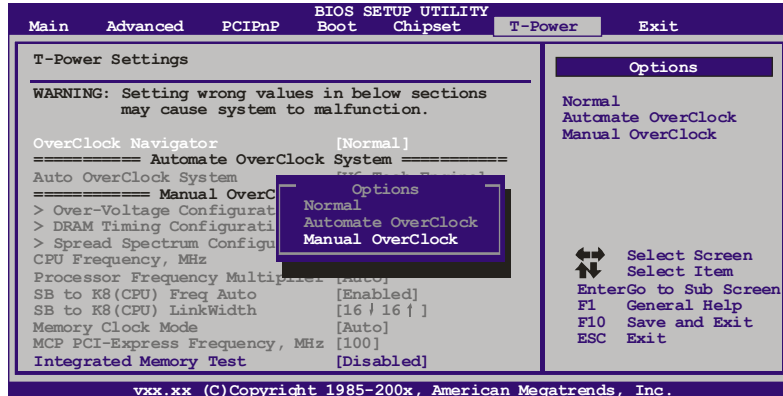
A. Overclocking Navigator Engine (O.N.E.)

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.



Over-Voltage Configuration

Enter this function for advanced CPU/chipset/memory/Hyper Transport over-voltage settings.

DRAM Timing Configuration

Enter this function for more advanced DRAM clock settings.

Spread Spectrum Configuration

Enter this function for more advanced spread spectrum settings.

CPU Frequency, MHz

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.

Processor Frequency Multiplier

This function allows you to adjust the frequency ratio of CPU.

SB to K8(CPU) Freq Auto

This function allows you to set the SB to K8 frequency.

SB to K8(CPU) Link Width

This function allows you to choose the SB to K8 link width.

Memory Clock Mode

This function allows you to control the Memory Clock.

MCP PCI-Express Frequency, MHz

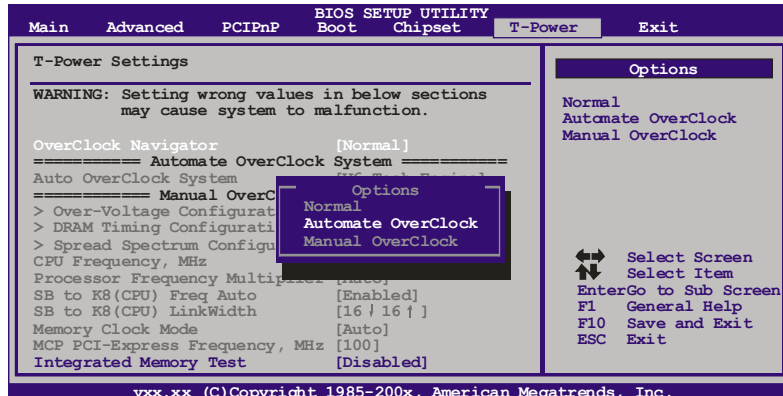
It helps to increase VGA card performance.

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.

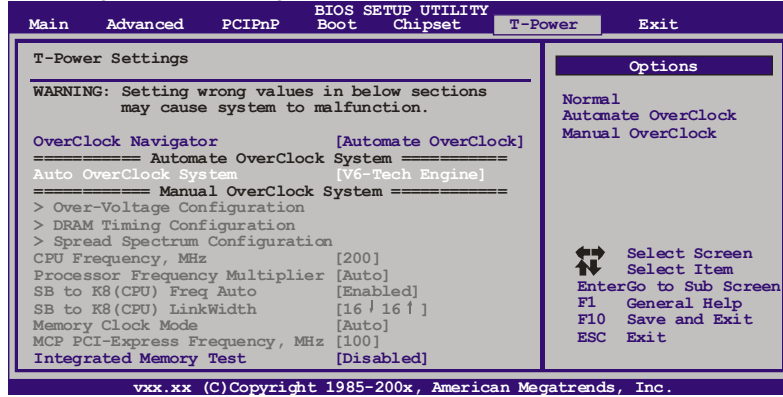
Automatic Overclock System (A.O.S.)

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.



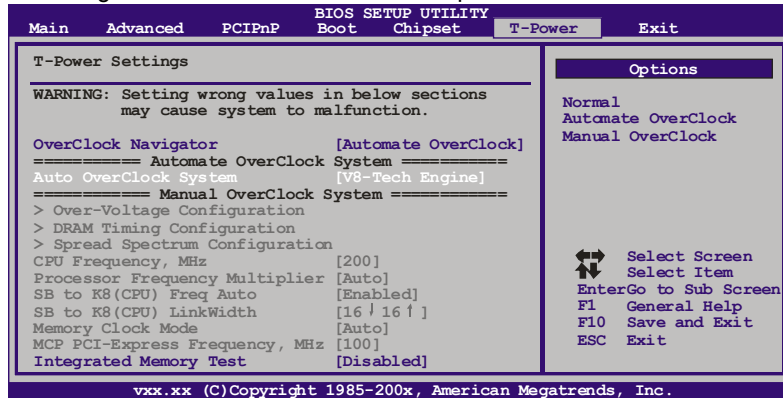
V6 Tech Engine

This engine will make a good over-clock performance.



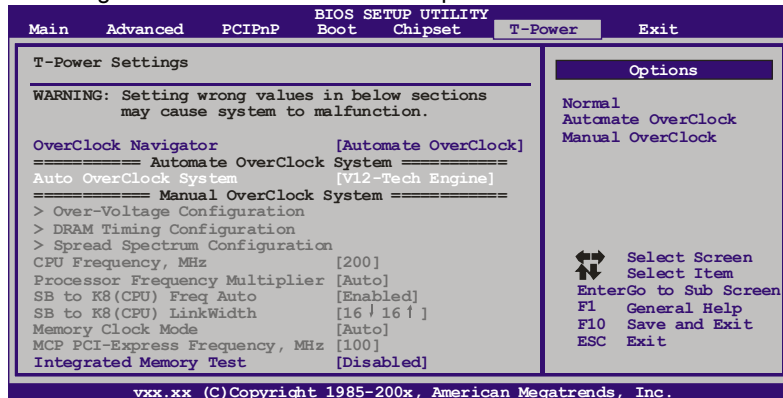
V8 Tech Engine

This engine will make a better over-clock performance.



V12 Tech Engine

This engine will make a best over-clock performance.



Notices:

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

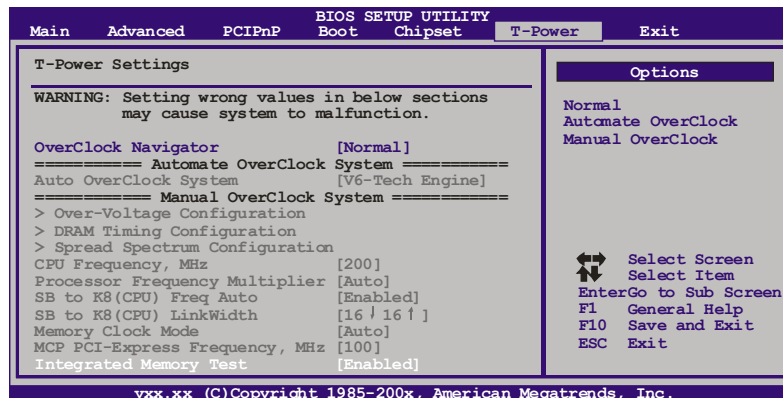
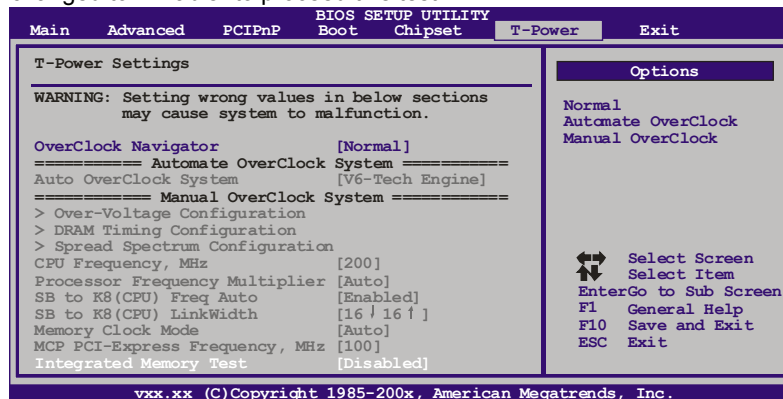
B. Memory Integration Test (M.I.T.)

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.

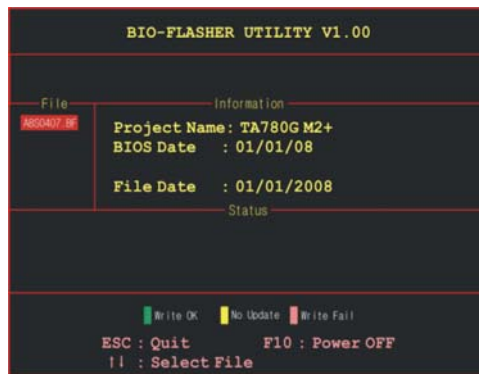
C. BIO-Flasher

BIO-Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive or floppy disk.

The BIO-Flasher is built in the BIOS chip. To enter the utility, **press <F12>** during the **Power-On Self Tests (POST)** procedure while booting up.

Updating BIOS with BIO-Flasher

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, save the BIOS file into a USB pen drive or a floppy disk.
3. Insert the USB pen drive or the floppy disk that contains the BIOS file to the USB port or the floppy disk drive.
4. Power on or reset the computer and then press **<F12>** during the **POST** process. A select dialog as the picture on the right appears. Select the device contains the BIOS file and press **<Enter>** to enter the utility.



5. The utility will show the BIOS files and their respective information. Select the proper BIOS file and press **<Enter>** then **<Y>** to perform the BIOS update process.

6. After the update process, the utility will ask you to reboot the system. Press **<Y>** to proceed. BIOS update completes.



- This utility only allows storage device with FAT32/16 format and single partition.
- Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

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.

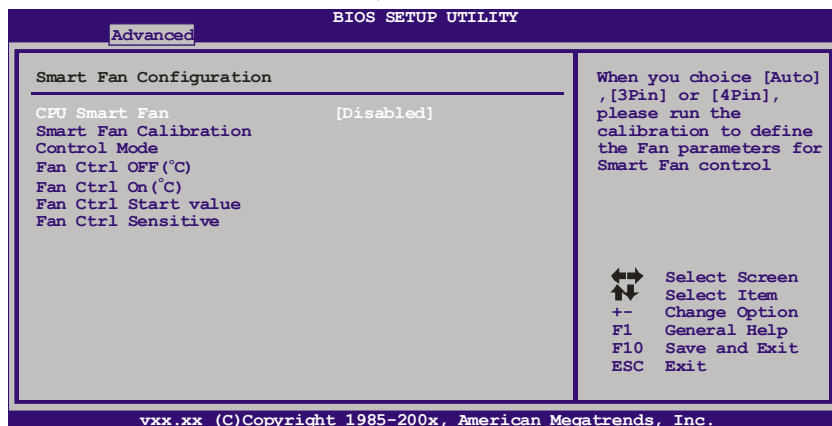
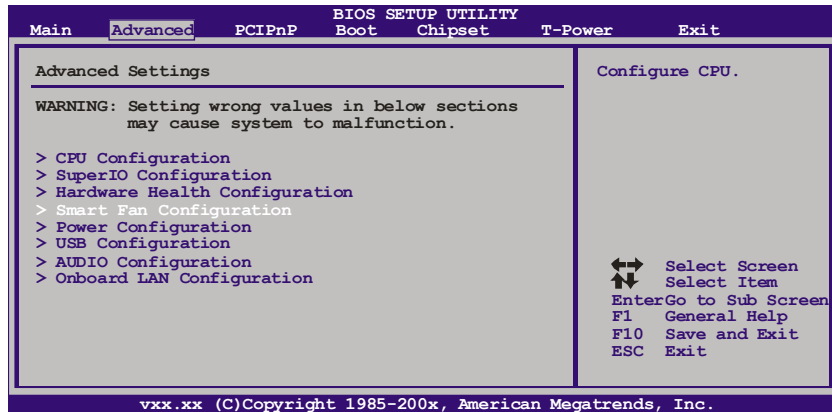
E. Smart Fan Function

Smart Fan Function is under "Smart Fan Configuration" 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.



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.

Control Mode

This item provides several operation modes of the fan.

Fan Ctrl OFF(°C)

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

Fan Ctrl On(°C)

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

Fan Ctrl Start Value

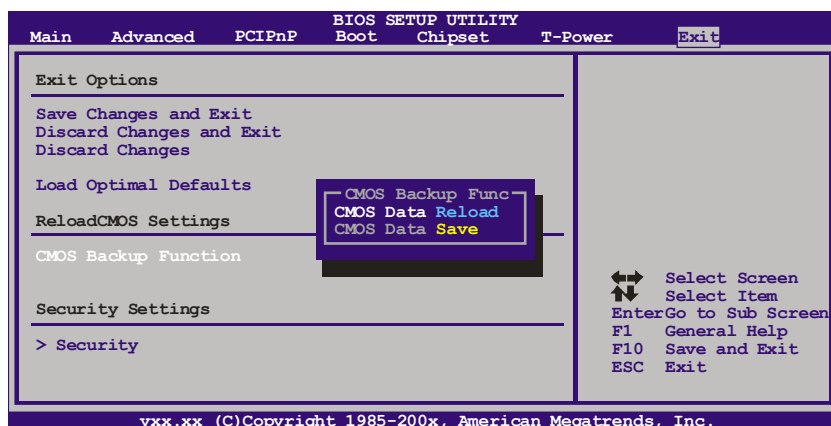
When CPU/System temperature arrives to the set value, the CPU/System fan will work under Smart Fan Function mode. The range is from 0~127, with an interval of 1.

Fan Ctrl Sensitive

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.

F. CMOS Reloading Program

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



6.2 T-POWER SOFTWARE

T-Power2 is an integration of four functions: **OC Tweaker** for over-clock, **eHot-Line** for technical support, **BIOS-watch** for system monitor, and **Biostar Flash** for BIOS update.

Installing T-Power2

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 **T-Power2**.
3. Follow the on-screen instructions to complete the installation.

Launching T-Power2

After the installation process, you will see a “**TPower2**” icon appears on the desktop. Double-click the **TPower2** icon to launch T-Power2 utility.



Main Panel

The main panel provides OC Tweaker, eHot-Line, BIO-watch, and Biostar Flash buttons for launching the respective programs. Besides you can also change the skin of the main panel.



OC Tweaker



On the main panel, you can click on the OC Tweaker button to launch this function. The OC Tweaker provides automatic/manual over-clock function for BIOSTAR motherboard, and even for some BIOSTAR VGA card (VR8xxx series only) which is powered by V-Ranger.

This area shows clock information of the VGA card

This area shows clock/voltage information of the CPU/motherboard

V3/V6/V9/V12/V15 Fixed mode over-clock

- Test the system
- Auto over-clock
- Delete current setting file
- Save current setting into file
- Restore hardware default setting
- Load previously saved setting file

If you are not using a nVIDIA VGA card, this window will not show.


The left window will show like this only when you are using a VR8xxx series BIOSTAR VGA card.

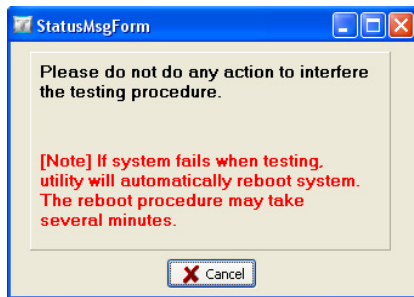
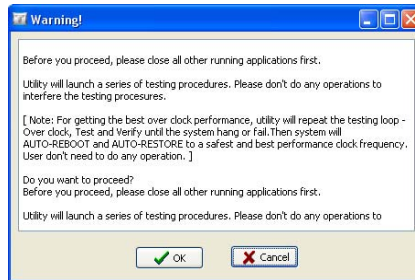
- Test the VGA card
- Manual over-clock
- Restore VGA card default setting
- Power Saving Mode
- Save current VGA setting into file
- Delete current VGA setting file
- Load previous saved VGA setting file

If you have installed a V-Ranger powered BIOSTAR VGA card, then the left window of the VGA card information would show like this. VGA card over-clock function will be enabled.

<Auto Over-clock>

By this function, the utility will set the best and stable performance and frequency automatically.







Click on  then a Warning dialog will show. This dialog tells that all running applications should be closed before the auto over-clock procedure. The utility will do a series of test continually; do not do any operation during the test procedure. Click **OK** to proceed or **Cancel** to stop.

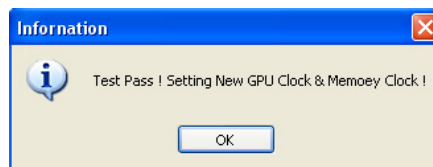
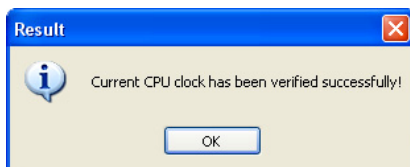


After proceeding the tests would start, and a warning message would continually show telling that do not do any action to interfere the testing procedure. The testing procedure takes minutes; you can stop the procedure by clicking **Cancel**.


For getting the best performance, the utility will repeat the test continually until the system hang or fail, and then the system will auto-reboot. After that, launch the T-Power2 and enter the OC Tweaker again, you will find the setting has been restored to a safest and best performance status. Save this setting is recommended.

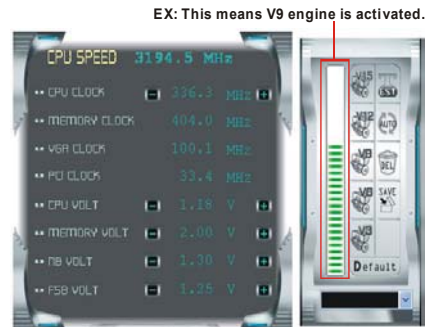
<Manual Over-clock>

To manually adjust the clock and voltage, just click the  or  beside the number. (For V-Ranger powered VGA card, click  then the   beside the VGA values will show.) After the adjustment, click  to verify the supplied value is recommended. If the test passes, following dialog will show; click OK to proceed.




<V3/V6/V9/V12/V15 Engine>

By clicking , the utility would over-clock the system with certain fixed percentage. When the V3/V6/V9/V12/V15 engine is activated, you will see the green light bar on the left rising to the top of the button. This function is recommended for any inexperienced users.



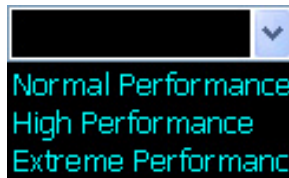
<Save/Load/Delete Setting>


You can save current setting to a file by clicking , then a dialog as bellow will show.



Enter file name and click "Save", and then the current setting would be saved.

To load a previously saved file, click on , and the saved files would show as bellow. Click on the file name and then choose "Yes" to load the setting.



To delete a previously saved file; load the setting first → click on  (for VGA setting is **Delete**) → choose "Yes", and the setting file will be deleted.

(Be aware of that VGA setting for V-Ranger powered VGA card must be saved/loaded/deleted respectively.)

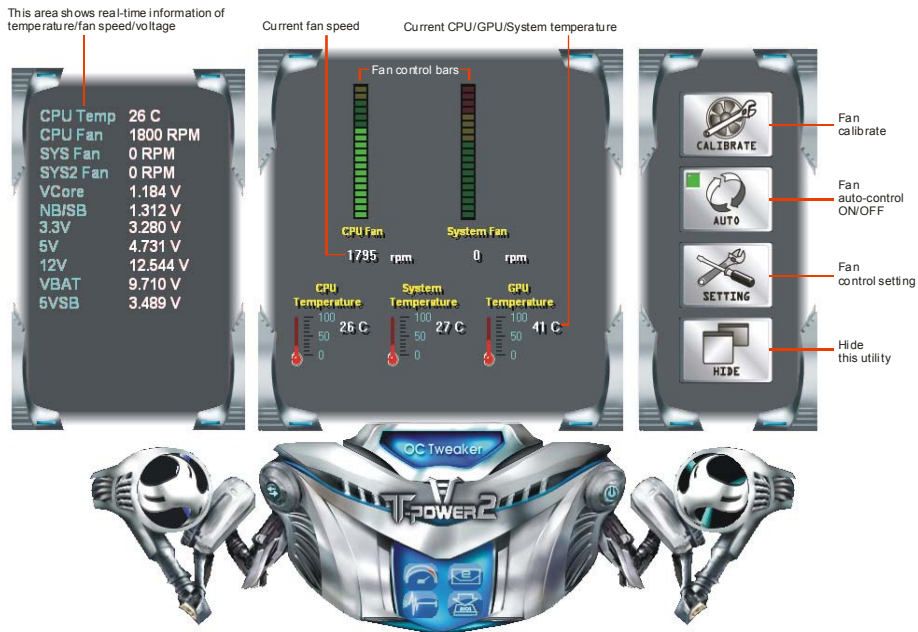


Over-clock is an optional process but not a "must-do" process, and actual over-clock result varies by every individual PC system. Therefore, we will neither guarantee any over-clock performance nor be responsible for any system damage that may be caused by over-clock. Any values or performance shown above are for reference only.

BIO-watch



BIO-watch is a control and 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; and fan control function.



<Fan Calibrate>

At the very first time entering this utility, fan calibrate will be made automatically.



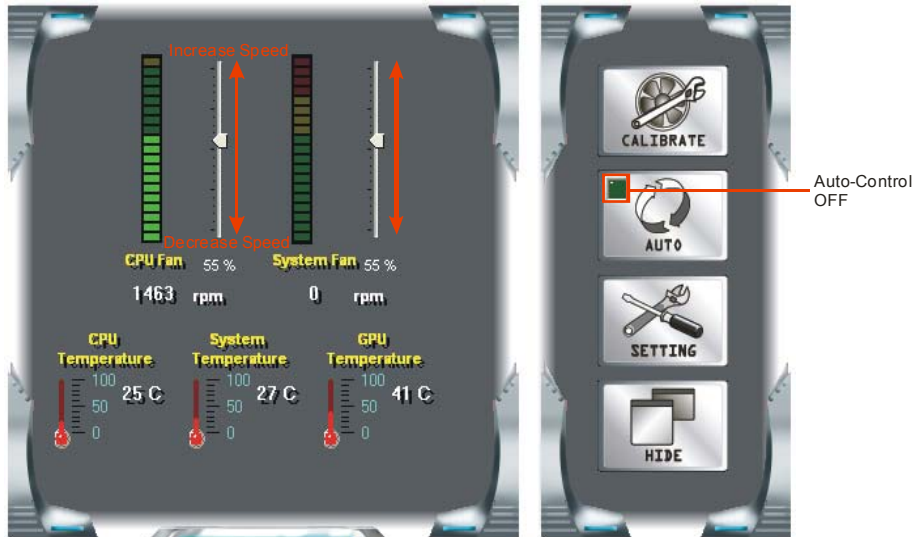
After that you can also click **CALIBRATE** to manually calibrate the fan.



<Fan Auto/Manual Control>


When the "AUTO" button looks like  , it means fans are under

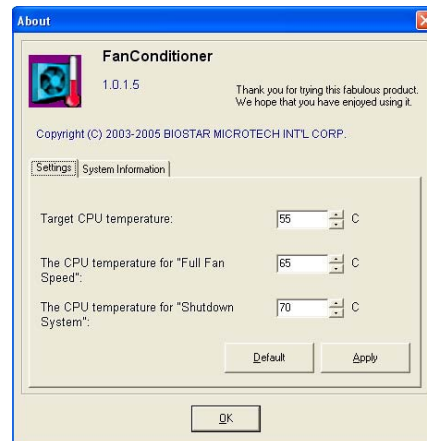
auto-control. Click the button to  then you can manually adjust fan speed.



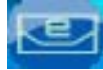
Click the auto-control off and then the adjust level will show; use the level to increase/decrease the fan speed. Be aware if the fan level been down to 0%, the fan will still not completely stop; this is for your system's protection.

<Fan Control Settings>

Click  to enter the fan control setting dialog. Here you can set CPU temperature to control the fan; including target CPU temperature, CPU temperature for full fan speed, and CPU temperature for shutdown system. Besides, you can also see system information in this dialog.



eHot-Line



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.

The main panel of eHot-Line shows BIOS information, motherboard model name, and chipset information, click on **"SETTING"** to enter.



The Privacy Statement shows; and please read through it. If you agree with the statement, click **"Yes"** to proceed; If not, click **"No"** to leave.

After agreeing with the privacy statement, fill up the table in the following dialog.

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

*** Describe condition of your system.**

*** Select your area or the area close to you.**

Provide the e-mail address that you would like to send the copy to.

*** Provide the name of the memory module manufacturer.**

Provide the name of the power supply manufacturer and the model no.

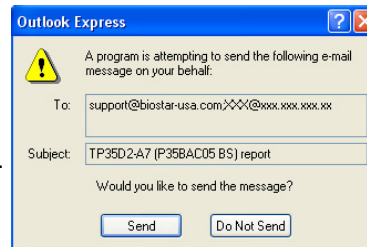
Exit this dialog.

Send the mail out.

Save these information to a .txt file

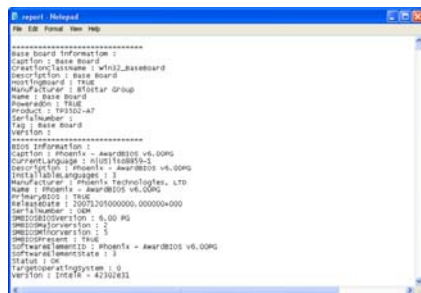
This block will show the information which would be collected in the mail.

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 concluded 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.

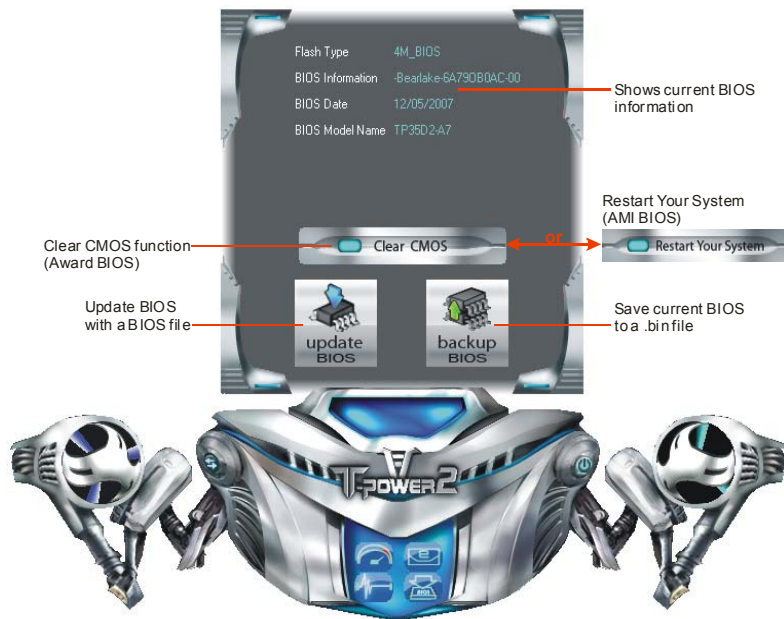


If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web <http://www.biostar.com.tw/app/en-us/about/contact.php> for getting our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

Biostar Flash

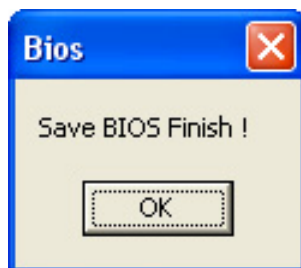
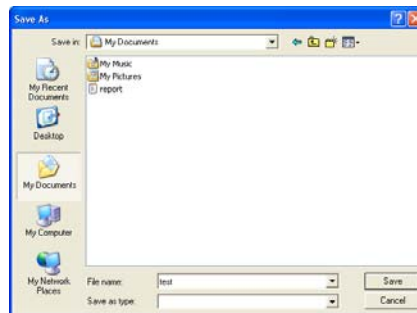


Biostar Flash is a convenient utility which allows you to update your motherboard BIOS under Windows system.



<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**.

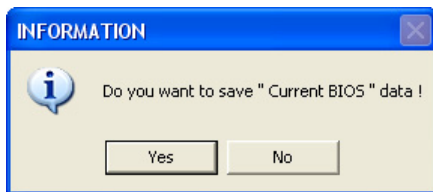


After the saving process, finish dialog will show. Click on **OK** to complete the BIOS Backup procedure.

<Update BIOS>

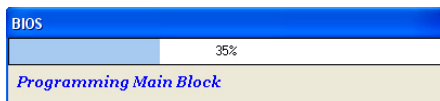
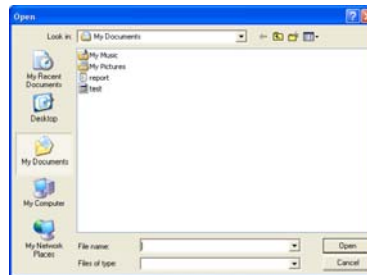
Before doing this, please download the proper BIOS file from our website:
www.biostar.com.tw

Update BIOS procedure should be run with Clear CMOS (or Restart) function, so please check on Clear CMOS (or Restart) first.



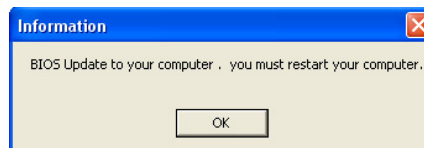
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


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.

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, choose **Load Optimized Defaults** and press **<Enter>→<Y>→<Enter>**. After that use **Save and Exit Setup** to exit BIOS setup. BIOS Update is completed.



All the information and content above about the T-Power 2 utility are subject to be changed without notice. For better performance, the utility 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 7: USEFUL HELP

7.1 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>

7.2 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.

7.3 AMI BIOS BEEP CODE

Boot Block Beep Codes

Number of Beeps	Description
1	No media present. (Insert diskette in floppy drive A:)
2	"AMIBOOT.ROM" file not found in root directory of diskette in A:
3	Insert next diskette if multiple diskettes are used for recovery
4	Flash Programming successful
5	File read error
7	No Flash EPROM detected
10	Flash Erase error
11	Flash Program error
12	"AMIBOOT.ROM" file size error
13	BIOS ROM image mismatch (file layout does not match image present in flash device)

POST BIOS Beep Codes

Number of Beeps	Description
1	Memory refresh timer error
3	Base memory read/write test error
6	Keyboard controller BAT command failed
7	General exception error (processor exception interrupt error)
8	Display memory error (system video adapter)

Troubleshooting POST BIOS Beep Codes

Number of Beeps	Troubleshooting Action
1, 3	Reseat the memory, or replace with known good modules.
6, 7	<p>Fatal error indicating a serious problem with the system. Consult your system manufacturer. Before declaring the motherboard beyond all hope, eliminate the possibility of interference by a malfunctioning add-in card. Remove all expansion cards except the video adapter.</p> <ul style="list-style-type: none"> ● If beep codes are generated when all other expansion cards are absent, consult your system manufacturer's technical support. ● If beep codes are not generated when all other expansion cards are absent, one of the add-in cards is causing the malfunction. Insert the cards back into the system one at a time until the problem happens again. This will reveal the malfunctioning card.
8	If the system video adapter is an add-in card, replace or reseat the video adapter. If the video adapter is an integrated part of the system board, the board may be faulty.

7.4 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.

APPENDENCIES: SPEC IN OTHER LANGUAGE

GERMAN

<i>Spezifikationen</i>		
CPU	Socket AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom Prozessoren	Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet
FSB	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 5.2 GT/s	
Chipsatz	nForce 750a SLI	
Super E/A	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle	Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 256MB/512MB/1GB/2GB/4GB DDR2. Max. 16GB Arbeitsspeicher	Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 533 / 667 / 800 Unterstützt DDR2 1066 (by AM2+ CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
Grafik	Integrierter nForce 750a SLI -Chipsatz	Max. 512MB gemeinsam benutzter Videospeicher (under OS)
IDE	Integrierter IDE-Controller	Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4
SATA II	Integrierter Serial ATA-Controller	Datentransferrate bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0.
LAN	Realtek RTL 8111C	10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Voll duplex-Funktion
Audio-Codec	ALC888S	7.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI-Steckplatz x3 PCI Express Gen2 x16 Steckplatz (x16/x8) x1 PCI Express Gen2 x16 Steckplatz (x8) x1 PCI Express Gen2 x1 Steckplatz x1	
Onboard-Anschluss	Diskettenlaufwerkanschluss x1 Druckeranschluss Anschluss x1	Jeder Anschluss unterstützt 2 Diskettenlaufwerke Jeder Anschluss unterstützt 1 Druckeranschluss

Spezifikationen			
	IDE-Anschluss	x1	Jeder Anschluss unterstützt 2 IDE-Laufwerke
	SATA-Anschluss	x6	Jeder Anschluss unterstützt 1 SATA-Laufwerk
	Fronttafelanschluss	x1	Unterstützt die Fronttafel-Funktionen
	Front-Audioanschluss	x1	Unterstützt die Fronttafel-Audioanschlussfunktion
	CD-IN-Anschluss	x1	Unterstützt die CD Audio-In-Funktion
	S/PDIF Ausgangsanschluss	x2	Unterstützt die digitale Audioausgabefunktion
	S/PDIF Eingangsanschluss	x1	Unterstützt die digitale Audioeingabefunktion
	CPU-Lüfter-Sockel	x1	CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion)
	System-Lüfter-Sockel	x2	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB-Anschluss	x3	Jeder Anschluss unterstützt 2 Fronttafel-USB-Anschlüsse
	Serieller Anschluss	x1	
	Stromanschluss (24-polig)	x1	
	Stromanschluss (8-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E/A	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	LAN-Anschluss	x1	
	USB-Anschluss	x6	
	Audioanschluss	x6	
	DVI-I-Anschluss	x1	
Platinengröße	244 mm (B) X 305 mm (L)		
Sonderfunktionen	Unterstützt RAID 0 / 1 / 5 / 0+1		
	Unterstützt Hybrid SLI (by nVIDIA driver)		
OS-Unterstützung	Windows XP / VISTA		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRANCE

SPEC		
UC	Socket AM2+ Processeurs AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom	L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet
Bus frontal	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 5.2 GT/s	
Chipset	nForce 750a SLI	
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 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/4Go Capacité mémoire maximale de 16 Go	Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 533 / 667 / 800 Prend en charge la DDR2 1066 (by AM2+ CPU) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
Graphiques	Intégré dans la chipset nForce 750a SLI	Mémoire vidéo partagée maximale de 512 Mo (under OS)
IDE	Contrôleur IDE intégré	Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4
SATA II	Contrôleur Serial ATA intégré	Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek RTL 8111C	10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Codec audio	ALC888S	Sortie audio à 7.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI x3 Slot PCI Express Gen2 x16 (x16/x8) x1 Slot PCI Express Gen2 x16 (x8) x1 Slot PCI Express Gen2 x1 x1	
Connecteur embarqué	Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1	Chaque connector prend en charge 2 lecteurs de disquettes Chaque connector prend en charge 1 Port d'imprimante Chaque connecteur prend en charge 2 périphériques IDE

SPEC			
	Connecteur SATA	x6	Chaque connecteur prend en charge 1 périphérique SATA
	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
	Connecteur d'entrée CD	x1	Prend en charge la fonction d'entrée audio de CD
	Connecteur de sortie S/PDIF	x2	Prend en charge la fonction de sortie audio numérique
	Connecteur d'entrée S/PDIF	x1	Prend en charge la fonction d'entrée audio numérique
	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 USB	x3	Chaque connecteur prend en charge 2 ports USB de panneau avant
	Connecteur de Port série	x1	
	Connecteur d'alimentation (24 broches)	x1	
	Connecteur d'alimentation (8 broches)	x1	
	Connecteur d'alimentation (4 broches)	x1	
E/S du panneau arrière	Clavier PS/2	x1	
	Souris PS/2	x1	
	Port LAN	x1	
	Port USB	x6	
	Fiche audio	x6	
	Port DVI-I	x1	
Dimensions de la carte	244 mm (l) X 305 mm (H)		
Fonctionnalités spéciales	Prise en charge RAID 0 / 1 / 5 / 0+1 Prise en charge Hybrid SLI (by nVIDIA driver)		
Support SE	Windows XP / VISTA		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

SPECIFICA		
CPU	Socket AM2+ Processori AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom	L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet
FSB	Supporto di HyperTransport 3.0 fino a 5.2 GT/s di larghezza di banda	
Chipset	nForce 750a SLI	
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 velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR2 x 4 Ciascun DIMM supporta DDR2 256MB/512MB/1GB/2GB/4GB Capacità massima della memoria 16GB	Modulo di memoria DDR2 a canale doppio Supporto di DDR2 533 / 667 / 800 Supporto di DDR2 1066 (by AM2+ CPU) DIMM registrati e DIMM ECC non sono supportati
Grafica	Integrata nel Chipset nForce 750a SLI	La memoria video condivisa massima è di 512 MB (under OS)
IDE	Controller IDE integrato	Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA II	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Realtek RTL 8111C	Negoziabile automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex
Codec audio	ALC888S	Uscita audio 7.1 canali Supporto audio High-Definition (HD)
Alloggi	Alloggio PCI x3 Alloggio PCI Express Gen2 x16 (x16/x8) x1 Alloggio PCI Express Gen2 x16 (x8) x1 Alloggio PCI Express Gen2 x1 x1	
Connettori su scheda	Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x6	Ciascun connettore supporta 2 unità Floppy Ciascun connettore supporta 1 Porta stampante Ciascun connettore supporta 2 unità IDE Ciascun connettore supporta 1 unità SATA

SPECIFICA			
	Connettore pannello frontale	x1	Supporta i servizi del pannello frontale
	Connettore audio frontale	x1	Supporta la funzione audio pannello frontale
	Connettore CD-in	x1	Supporta la funzione input audio CD
	Connettore output SPDIF	x2	Supporta la funzione d'output audio digitale
	Connettore input S/PDIF	x1	Supporta la funzione d'input audio digitale
	Collettore ventolina CPU	x1	Alimentazione ventolina CPU (con funzione Smart Fan)
	Collettore ventolina sistema	x2	Alimentazione ventolina di sistema
	Collettore cancellazione CMOS	x1	
	Connettore USB	x3	Ciascun connettore supporta 2 porte USB pannello frontale
	Connettore Porta seriale	x1	
	Connettore alimentazione (24 pin)	x1	
	Connettore alimentazione (8 pin)	x1	
	Connettore alimentazione (4 pin)	x1	
I/O pannello posteriore	Tastiera PS/2	x1	
	Mouse PS/2	x1	
	Porta LAN	x1	
	Porta USB	x6	
	Connettore audio	x6	
	Porta DVI-I	x1	
Dimensioni scheda	244 mm (larghezza) x 305 mm (altezza)		
Caratteristiche speciali	Supporto RAID 0 / 1 / 5 / 0+1 Supporto Hybrid SLI (by nVIDIA driver)		
Sistemi operativi supportati	Windows XP / VISTA		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

Especificación		
CPU	Conector AM2+ Procesadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom	La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet
FSB	Admite HyperTransport 3.0 con un ancho de banda de hasta 5.2 GT/s	
Conjunto de chips	nForce 750a SLI	
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 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/4GB Capacidad máxima de memoria de 16GB	Módulo de memoria DDR2 de canal Doble Admite DDR2 de 533 / 667 / 800 Admite DDR2 de 1066 (by AM2+ CPU) No admite DIMM registrados o DIMM compatibles con ECC
Gráficos	Integrados en el conjunto de chips nForce 750a SLI	Memoria máxima de vídeo compartida de 512 MB (under OS)
IDE	Controlador IDE integrado	Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4
SATA II	Controlador ATA Serie Integrado	Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Realtek RTL 8111C	Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Códecs de sonido	ALC888S	Salida de sonido de 7.1 canales Soporte de sonido de Alta Definición
Ranuras	Ranura PCI X3 Ranura PCI Express Gen2 x16 (x16/x8) X1 Ranura PCI Express Gen2 x16 (x8) X1 Ranura PCI express Gen2 x1 X1	
Conectores en placa	Conector disco flexible X1 Conector Puerto de impresora X1	Cada conector soporta 2 unidades de disco flexible Cada conector soporta 1 Puerto de impresora

Especificación			
	Conector IDE	X1	Cada conector soporta 2 dispositivos IDE
	Conector SATA	X6	Cada conector soporta 1 dispositivos SATA
	Conector de panel frontal	X1	Soporta instalaciones en el panel frontal
	Conector de sonido frontal	X1	Soporta funciones de sonido en el panel frontal
	Conector de entrada de CD	X1	Soporta función de entrada de sonido de CD
	Conector de salida S/PDIF	X2	Soporta función de salida de sonido digital
	Conector de entrada S/PDIF	X1	Soporta función de entrada de sonido digital
	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 USB	X3	Cada conector soporta 2 puertos USB frontales
	Conector Puerto serie	X1	
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (8 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	
	Ratón PS/2	X1	
	Puerto de red local	X1	
	Puerto USB	X6	
	Conector de sonido	X6	
	Puerto DVI-I	X1	
Tamaño de la placa	244 mm (A) X 305 mm (H)		
Funciones especiales	Admite RAID 0 / 1 / 5 / 0+1 Admite Hybrid SLI (by nVIDIA driver)		
Soporte de sistema operativo	Windows XP / VISTA		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

ESPECIFICAÇÕES		
CPU	Socket AM2+ Processadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom	A arquitetura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet
FSB	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 5.2 GT/s	
Chipset	nForce 750a SLI	
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 da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR2 x 4 Cada módulo DIMM suporta uma memória DDR2 de 256MB/512MB/1GB/2GB/4GB Capacidade máxima de memória: 16GB	Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 533 / 667 / 800 Suporta módulos DDR2 1066 (by AM2+ CPU) Os módulos DIMM registados e os DIMM ECC não são suportados
Placa gráfica	Integrada no chipset nForce 750a SLI	Memória de vídeo máxima partilhada: 512 MB (under OS)
IDE	Controlador IDE integrado	Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4
SATA II	Controlador Serial ATA integrado	Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Realtek RTL 8111C	Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex
Codec de som	ALC888S	Saída de áudio de 7.1 canais Suporta a especificação High-Definition Audio
Ranuras	Ranura PCI x3 Ranura PCI Express Gen2 x16 (x16/x8) x1 Ranura PCI Express Gen2 x16 (x8) x1 Ranura PCI Express Gen2 x1 x1	
Conectores na placa	Conector da unidade de disquetes x1 Conector da para impressora x1	Cada conector suporta 2 unidades de disquetes Cada conector suporta 1 Porta para impressora

ESPECIFICAÇÕES			
	Conector IDE	x1	Cada conector suporta 2 dispositivos IDE
	Conector SATA	x6	Cada conector suporta 1 dispositivo SATA
	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 para entrada de CDs	x1	Suporta a entrada de áudio a partir de CDs
	Conector de saída S/PDIF	x2	Suporta a saída de áudio digital
	Conector de entrada S/PDIF	x1	Suporta a entrada de áudio digital
	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 USB	x3	Cada conector suporta 2 portas USB no painel frontal
	Conector da Porta série	x1	
	Conector de alimentação (24 pinos)	x1	
	Conector de alimentação (8 pinos)	x1	
	Conector de alimentação (4 pinos)	x1	
Entradas/Saídas no painel traseiro	Teclado PS/2	x1	
	Rato PS/2	x1	
	Porta LAN	x1	
	Porta USB	x6	
	Tomada de áudio	x6	
	Porta DVI-I	x1	
Tamanho da placa	244 mm (L) X 305 mm (A)		
Características especiais	Suporta as funções RAID 0 / 1 / 5 / 0+1		
	Suporta as funções Hybrid SLI (by nVIDIA driver)		
Sistemas operativos suportados	Windows XP / VISTA		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 AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom Procesory	Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet
FSB	Obsługa HyperTransport 3.0 o szerokości pasma do 5.2 GT/s	
Chipset	nForce 750a SLI	
Pamięć główna	Gniazda DDR2 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 256MB/512MB/1GB/2GB/4GB DDR2 Maks. wielkość pamięci 16GB	Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 533 / 667 / 800 Obsługa DDR2 1066 (by AM2+ 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 prędkości wentylatora Funkcja ITE "Smart Guardian"
Grafika	Zintegrowana w chipsecie nForce 750a SLI	Maks. wielkość współdzielonej pamięci video wynosi 512 MB (under OS)
IDE	Zintegrowany kontroler IDE	Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4
SATA II	Zintegrowany kontroler Serial ATA	Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Realtek RTL 8111C	10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie półowicznego / pełnego duplexu
Kodek dźwiękowy	ALC888S	7.1 kanałowe wyjście audio Obsługa High-Definition Audio
Gniazda	Gniazdo PCI x3 Gniazdo PCI Express Gen2 x16 (x16/x8) x1 Gniazdo PCI Express Gen2 x16 (x8) x1 Gniazdo PCI Express Gen2 x1 x1	
Złącza wbudowane	Złącze napędu dyskietek x1 Złącze Port drukarki x1 Złącze IDE x1 Złącze SATA x6	Każde złącze obsługuje 2 napędy dyskietek Każde złącze obsługuje 1 Port drukarki Każde złącze obsługuje 2 urządzenia IDE Każde złącze obsługuje 1 urządzenie SATA

SPEC			
	Złącze panela przedniego	x1	Obsługa elementów panela przedniego
	Przednie złącze audio	x1	Obsługa funkcji audio na panelu przednim
	Złącze wejścia CD	x1	Obsługa funkcji wejścia audio CD
	Złącze wyjścia S/PDIF	x2	Obsługa funkcji cyfrowego wyjścia audio
	Złącze wejścia S/PDIF	x1	Obsługa funkcji cyfrowego wejścia audio
	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 USB	x3	Każde złącze obsługuje 2 porty USB na panelu przednim
	Złącze Port szeregowy	x1	
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (8 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
Back Panel I/O	Klawiatura PS/2	x1	
	Mysz PS/2	x1	
	Port LAN	x1	
	Port USB	x6	
	Gniazdo audio	x6	
	Port DVI-I	x1	
Wymiary płyty	244 mm (S) X 305 mm (W)		
Funkcje specjalne	Obsługa RAID 0 / 1 / 5 / 0+1 Obsługa Hybrid SLI (by nVIDIA driver)		
Obsługa systemu operacyjnego	Windows XP / VISTA		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ		
CPU (центральный процессор)	Гнездо AM2+ Процессоры AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom	Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet
FSB	Поддержка HyperTransport 3.0 с пропускной способностью до 5.2 GT/s	
Набор микросхем	nForce 750a SLI	
Основная память	Слоты DDR2 DIMM x 4 Каждый модуль DIMM поддерживает 256МБ/512МБ/1ГБ/2ГБ/4ГБ DDR2 Максимальная ёмкость памяти 16ГБ	Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 533 / 667 / 800 Поддержка DDR2 1066 (by AM2+ 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 Функция ITE "Smart Guardian" (Интеллектуальная защита)
Графика	Встроенная в набор микросхем nForce 750a SLI	Максимальная совместно используемая видео память составляет 512 МБ (under OS)
IDE	Встроенное устройство управления встроенными интерфейсами устройств	Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA II	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.
Локальная сеть	Realtek RTL 8111C	Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковой кодек	ALC888S	Звуковая поддержка High-Definition 7.1канальный звуковой выход
Слоты	Слот PCI x3 Слот PCI Express Gen2 x16 (x16/x8) x1 Слот PCI Express Gen2 x16 (x8) x1 Слот PCI Express Gen2 x1 x1	
Встроенный разъём	Разъём НГМД x1 Разъём Порт подключения принтера x1 Разъём IDE x1	Каждый разъём поддерживает 2 накопителя на гибких магнитных дисках Каждый разъём поддерживает 1 Порт подключения принтера Каждый разъём поддерживает 2 встроенных интерфейса накопителей

СПЕЦ			
	Разъём SATA	x6	Каждый разъём поддерживает 1 устройство SATA
	Разъём на лицевой панели	x1	Поддержка устройств на лицевой панели
	Входной звуковой разъём	x1	Поддержка звуковых функций на лицевой панели
	Разъём ввода для CD	x1	Поддержка функции ввода для CD
	Разъём вывода для S/PDIF	x2	Поддержка вывода цифровой звуковой функции
	Разъём ввода для S/PDIF	x1	Поддержка ввода цифровой звуковой функции
	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	
	USB-разъём	x3	Каждый разъём поддерживает 2 USB-порта на лицевой панели
	Разъём Последовательный порт	x1	
	Разъём питания (24 вывод)	x1	
	Разъём питания (8 вывод)	x1	
	Разъём питания (4 вывод)	x1	
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	
	Мышь PS/2	x1	
	Порт LAN	x1	
	USB-порт	x6	
	Гнездо для подключения наушников	x6	
	Порт DVI-I	x1	
Размер панели	244 мм (Ш) X 305 мм (В)		
Специальные технические характеристики	Поддержка RAID 0 / 1 / 5 / 0+1 Поддержка Hybrid SLI (by nVIDIA driver)		
Поддержка OS	Windows XP / VISTA		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

ARABIC

المواصفات		
وحدة المعالجة المركزية	AM2+ مقبس AMD Athlon 64 / Athlon 64 FX / Sempron / Phenom / Athlon 64 X2	إجراء العمليات الحاسوبية بسرعة 32 و 64 بت AMD 64 يمكن تقنية Hyper Transport 3.0 و Cool'n'Quiet ودعم تقنية
النافذ الأمامي الجانبي	5.2 GT/s يتردد يصل إلى 3.0 HyperTransport 3.0	
مجموعة الشرائح	nForce 750a SLI	
الذاكرة الرئيسية	قحة DDR2 DIMM سعة DDR2 تدعم ذاكرة من نوع DIMM 256/512/1024/2048/4096	عدد 4 مزوجة القاعة DDR2 ووحدة ذاكرة مجيا بليت 800/667/533 سعات DDR2 تدعم الذاكرة من نوع 1066(By AM2 + CPU) سعات DDR2 تدعم الذاكرة من نوع مجيا بليت ECC وتلك التي لا تتوافق مع DIMM لا تدعم رفقى الذاكرة
Super I/O	ITE 8718F الأكثر استخداماً. Super I/O يوفر وظيفة Low Pin Count Interface تدعم تقنية	وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة
بطاقة الرسومات	nForce 750a SLI منمجة في رفاق	(under OS) مجيا بليت 512 أقصى سعة لذاكرة الفيديو المشتركة
منفذ IDE	متكامل IDE متحكم	Ultra DMA 33 / 66 / 100 / 133 نقل تقنية وضع رئيسي PIO Mode 0~4 دعم وضع
SATA II	متكامل Serial ATA متحكم	نقل البليت بسرعة تصل إلى 3 جيجابت/ثانية. 2.0 الإصدار SATA مطابقة للمواصفات
شبكة داخلية	Realtek RTL 8111C	تفاوض تلقائي 1000/100/10 مجيا بليت / ثانية إمكانية النقل المزدوج الكامل/النصفي
كوديك الصوت	ALC888S	تدعم تقنية الصوت عالي التعريف من 7.1 قنوات لخرج الصوت
الفتحات	قحة PCI قحة PCI Express Gen2 x16(x16/x8) قحة PCI Express Gen2 x16(x8) قحة PCI Express Gen2 x1	عدد 3 عدد 1 عدد 1 عدد 1
المنافذ على سطح اللوحة	منفذ محرك أقراص مرنة منفذ طابعة	عدد 1 عدد 1

TPower N750

المواصفات		
IDE يدعم كل منفذ اثنين من أجهزة	عدد 1	منفذ IDE
SATA يدعم كل منفذ واحد من أجهزة	عدد 6	منفذ SATA
يدعم تجهيزات اللوحة الامامية	عدد 1	منفذ اللوحة الامامية
يدعم وظيفة الصوت باللوحة الامامية	عدد 1	منفذ الصوت الامامي
يدعم وظيفة دخل صوت القرص المدمج	عدد 1	منفذ CD-IN
يدعم وظيفة خرج الصوت الرقمي	عدد 2	منفذ خرج S/PDIF
يدعم وظيفة دخل الصوت الرقمي	عدد 1	منفذ دخل S/PDIF
Smart Fan لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة	عدد 1	وصلة مروحة وحدة المعالجة المركزية
توصيل الطاقة لمروحة النظام	عدد 2	وصلة مروحة النظام
	عدد 1	وصلة مسح CMOS
باللوحة الامامية USB يدعم كل منفذ قحطي	عدد 3	منفذ USB
	عدد 1	منفذ تسلسلي
	عدد 1	منفذ توصيل الطاقة (24 دبوس)
	عدد 1	منفذ توصيل الطاقة (8 دبوس)
	عدد 1	منفذ توصيل الطاقة (4 دبوس)
	عدد 1	لوحة مفاتيح PS/2
	عدد 1	مؤس PS/2
	عدد 1	منفذ شبكة اتصل محلية
	عدد 6	منافذ USB
	عدد 6	مقيس صوت
	عدد 1	منافذ DVI-I
		مزيا خاصة
		RAID 0 / 1 / 5 / 0+1 تدعم تقنية
		Hybrid SLI (by nVIDIA driver) تدعم تقنية
		حجم اللوحة
		244 مم (عرض) X 305 مم (الارتفاع)
بحقها في اضافة لو ازالة الدعم لأي نظام تشغيل باخطار أو Biostar تحتفظ بدون إخطار .		دعم أنظمة التشغيل
		Windows XP / VISTA

JAPANESE

仕様		
CPU	Socket AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / Phenom プロセッサ	AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です ハイパートランスポート3.0とクールアンドクワイエットをサポートします
FSB	5.2 GT/sのバンド幅までハイパートランスポート3.0をサポートします	
チップセット	nForce 750a SLI	
メインメモリ	DDR2 DIMMスロット x 4 各DIMMは 256MB/512MB/1GB/2GB/4GB DDR2をサポート 最大メモリ容量16GB	デュアル チャンネルモードDDR2 メモリモジュール DDR2 533 / 667 / 800をサポート DDR2 1066をサポート (by AM2+ 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
グラフィックス	nForce 750a SLIチップセットに統合	最大の共有ビデオメモリは512MBです(under OS)
IDE	統合IDEコントローラ	Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート
SATA II	統合シリアルATA コントローラ	最高3 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 8111C	10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能
サウンド Codec	ALC888S	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
スロット	PCIスロット x3 PCI Express Gen2 x16スロット(x16/x8) x1 PCI Express Gen2 x16スロット(x8) x1 PCI Express Gen2 x1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	各コネクタは2つのフロッピードライブをサポートします 各コネクタは1つのプリンタポートをサポートします 各コネクタは2つのIDEデバイスをサポートします

TPower N750

仕様			
	SATAコネクタ	x6	各コネクタは1つのSATA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
	CDインコネクタ	x1	CDオーディオイン機能をサポートします
	S/PDIFアウトコネクタ	x2	デジタルオーディオアウト機能をサポートします
	S/PDIFインコネクタ	x1	デジタルオーディオイン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	
	USBコネクタ	x3	各コネクタは2つのフロントパネルUSBポートをサポートします
	シリアルポートコネクタ	x1	
	電源コネクタ(24ピン)	x1	
	電源コネクタ(8ピン)	x1	
	電源コネクタ(4ピン)	x1	
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	LANポート	x1	
	USBポート	x6	
	オーディオジャック	x6	
	DVI-Iポート	x1	
ボードサイズ	244 mm (幅) X 305 mm (高さ)		
特殊機能	RAID 0 / 1 / 5 / 0+1 のサポート Hybrid SLI のサポート(by nVIDIA driver)		
OSサポート	Windows 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。

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