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

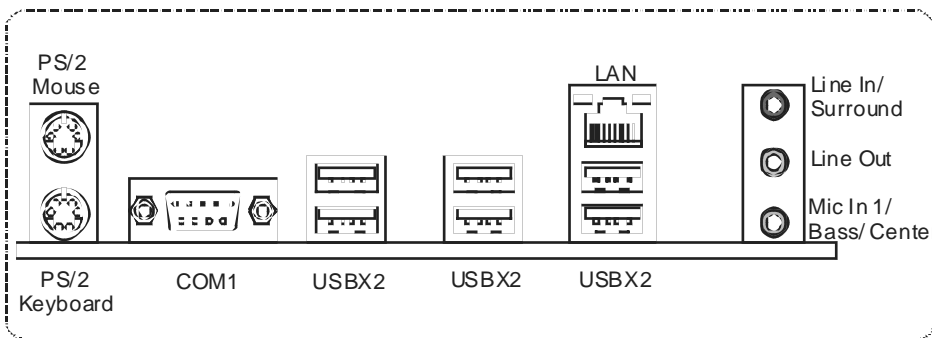
Note: The package contents may differ by area or your motherboard version.

1.3 MOTHERBOARD FEATURES

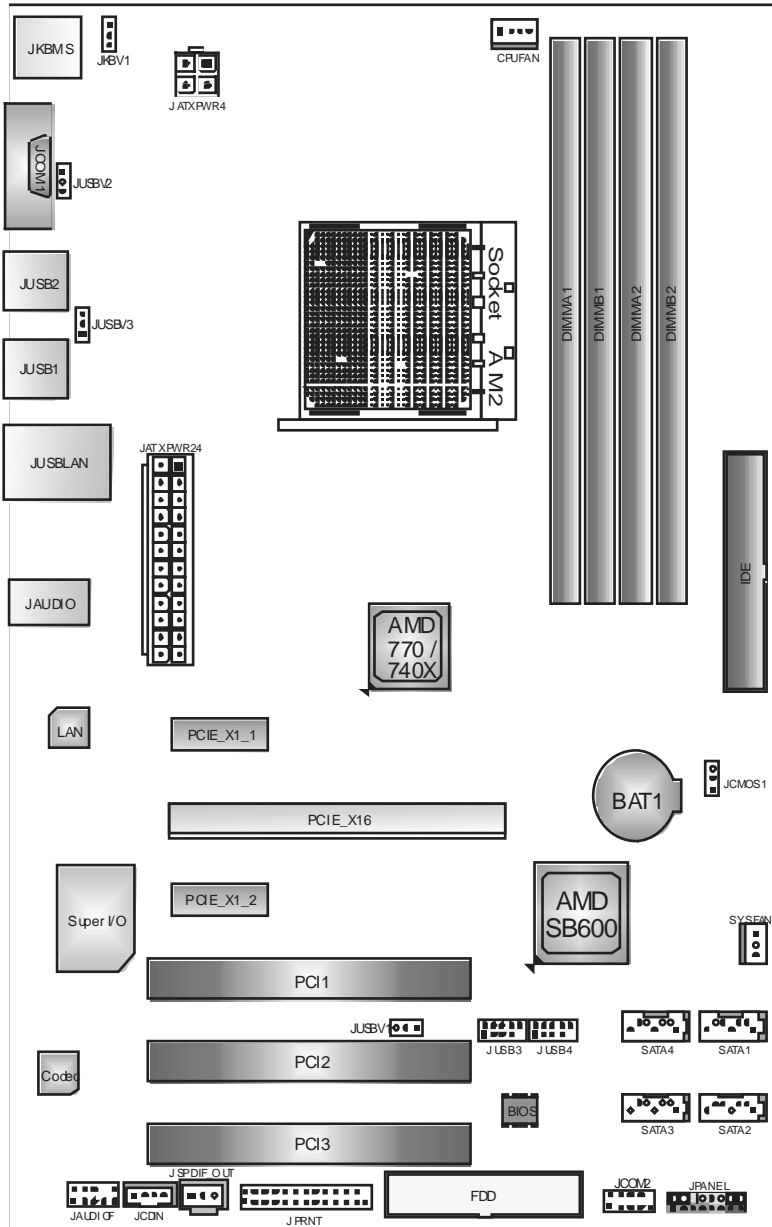
	A770 A2+	A740X A2+
CPU	Socket AM2 / AM2+ AMDAthlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool'nQuiet	Socket AM2 / AM2+ AMDAthlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 1.0 and Cool'nQuiet
FSB	Support HyperTransport 3.0 Supports up to 5.2 GT/s Bandwidth	Support HyperTransport 1.0 Supports up to 2.0 GT/s Bandwidth
Chipset	AMD 770 AMD SB600	AMD 740X AMD SB600
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	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 512/1024/2048MB DDR2 Max Memory Capacity 8GB 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	DIMM Slots x 4 Each DIMM supports 512/1024/2048MB DDR2 Max Memory Capacity 8GB 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
IDE	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,
SATA II	AMD SB600 Data transfer rates up to 3 Gb/s. SATA Version 2.0 specification compliant. RAID 0, 1, 1+0 support	AMD SB600 Data transfer rates up to 3 Gb/s. SATA Version 2.0 specification compliant. RAID 0, 1, 1+0 support
LAN	Realtek RTL8111C / RTL8102E (optional) 10 / 100 Mb/s / 1Gb/s auto negotiation (Gigabit bandwidth is for Realtek RTL8111C only) Half / Full duplex capability	Realtek RTL8102E / RTL8111C (optional) 10 / 100 Mb/s / 1Gb/s auto negotiation (Gigabit bandwidth is for Realtek RTL8111C only) Half / Full duplex capability
Sound	ALC662 5.1 channels audio out Supports HD Audio	ALC662 5.1 channels audio out Supports HD Audio

	A770 A2+		A740X A2+	
Slots	PCI slot	x3	PCI slot	x3
	PCI Express Gen2 x16 slot	x1	PCI Express x16 slot	x1
	PCI Express Gen2 x1 slot	x2	PCI Express x1 slot	x2
On Board Connector	Floppy connector	x1	Floppy connector	x1
	Printer Port connector	x1	Printer Port connector	x1
	IDE Connector	x1	IDE Connector	x1
	SATA Connector	x4	SATA Connector	x4
	Front Panel Connector	x1	Front Panel Connector	x1
	Front Audio Connector	x1	Front Audio Connector	x1
	CD-in Connector	x1	CD-in Connector	x1
	S/PDIF out connector	x1	S/PDIF out connector	x1
	CPU Fan header	x1	CPU Fan header	x1
	System Fan header	x1	System Fan header	x1
	CMOS clear header	x1	CMOS clear header	x1
	USB connector	x2	USB connector	x2
	Serial port Connector	x1	Serial port Connector	x1
	Power Connector (24pin)	x1	Power Connector (24pin)	x1
	Power Connector (4pin)	x1	Power Connector (4pin)	x1
Back Panel I/O	PS/2 Keyboard	x1	PS/2 Keyboard	x1
	PS/2 Mouse	x1	PS/2 Mouse	x1
	Serial Port	x1	Serial Port	x1
	LAN port	x1	LAN port	x1
	USB Port	x6	USB Port	x6
	Audio Jack	x3	Audio Jack	x3
Board Size	205 mm (W) x 305 mm (L)		205 mm (W) x 305 mm (L)	
OS Support	Windows XP /VISTA Biostar Reserves the right to add or remove support for any OS With or without notice.		Windows XP /VISTA Biostar Reserves the right to add or remove support for any OS With or without notice.	

1.4 REAR PANEL CONNECTORS



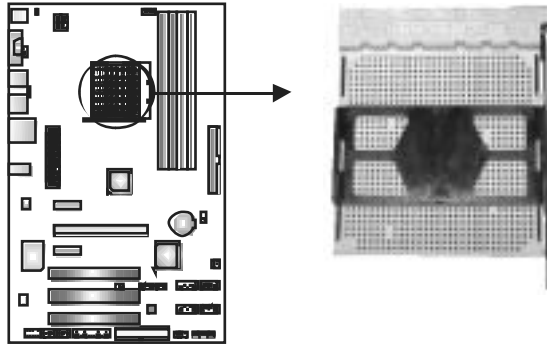
1.5 MOTHERBOARD LAYOUT



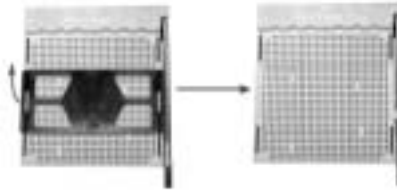
Not e: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

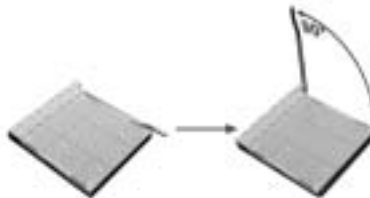
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



Step 1: Remove the socket protection cap.



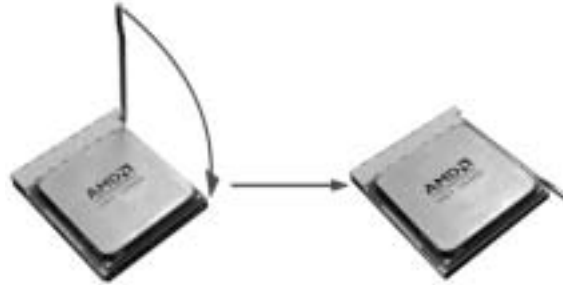
Step 2: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.



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.



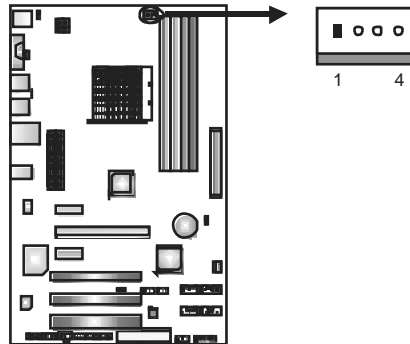
Step 5: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the CPUFAN. This completes the installation.

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

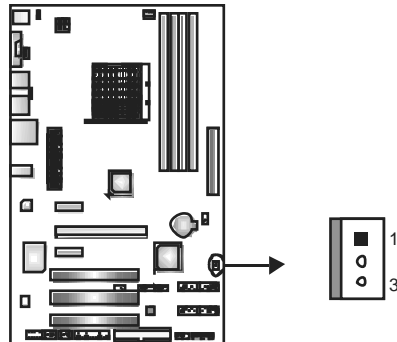
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPUFAN: CPU Fan Header



Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense
4	Smart Fan Control (By Fan)

SYSFAN: System Fan Headers



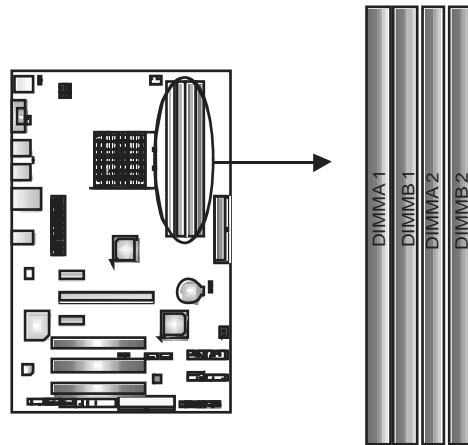
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

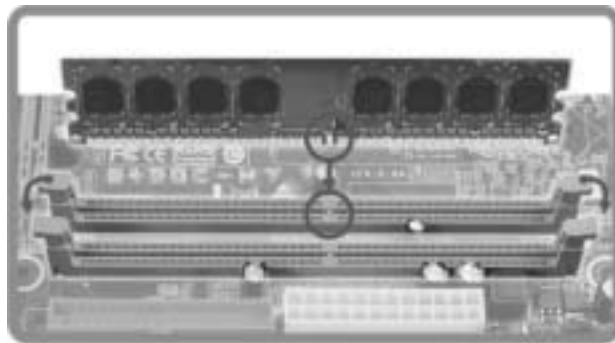
The CPUFAN and SYSFAN support 4-pin and 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

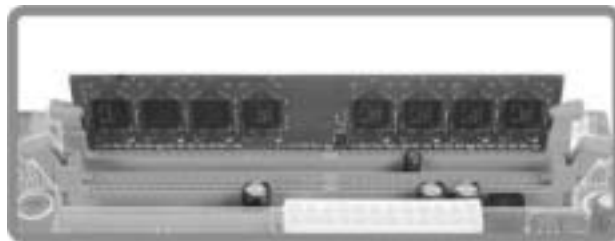
A. DDR2 Modules



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	512MB/1024MB/2048MB	Max is 8GB.
DIMMB1	512MB/1024MB/2048MB	
DIMMA2	512MB/1024MB/2048MB	
DIMMB2	512MB/1024MB/2048MB	

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

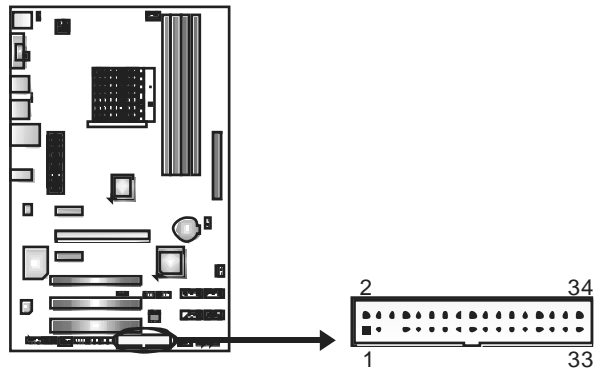
(O means memory installed, X means memory not installed.)

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

2.4 CONNECTORS AND SLOTS

FDD: Floppy Disk Connector

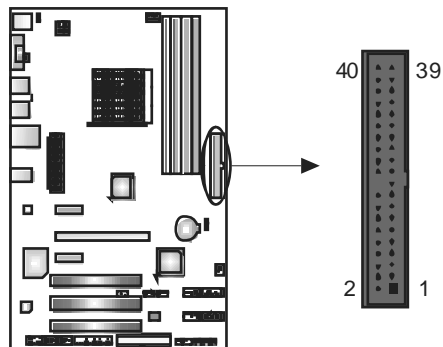
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE: 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.



PCIE_X16: PCI-Express Gen2 x16 Slot (for A770 A2+)

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.

PCIE_X1_1/PCIE_X1_2: PCI-Express Gen2 x1 Slots (for A770 A2+)

- 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.

PCIE_X16: PCI-Express x16 Slot (for A740X A2+)

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

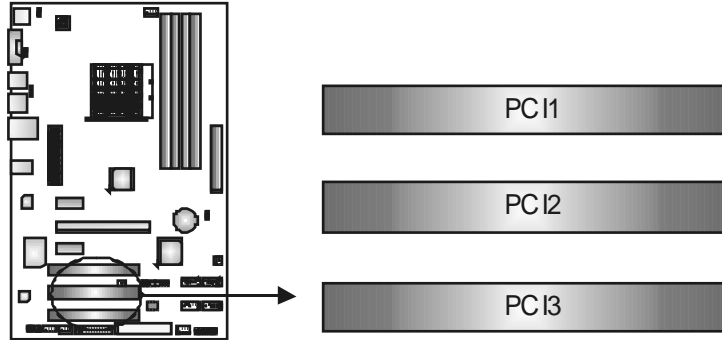
PCIE_X1_1/PCIE_X1_2: PCI-Express x1 Slots (for A740X A2+)

- PCI-Express 1.0a compliant.
- Data transfer bandwidth up to 250MB/s per direction; 500MB/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~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

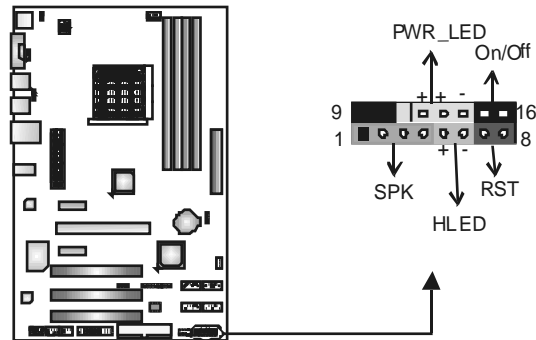
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

JPANEL: Front Panel Header

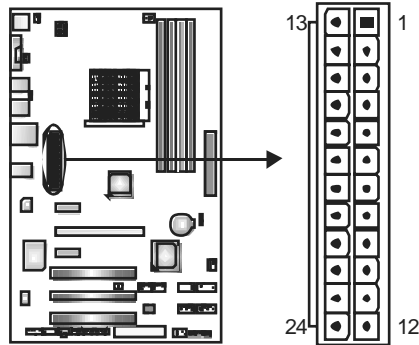
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case's front panel switch functions.



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	Power-on button
8	Reset control	16	Ground		

JATXPWR24: ATX Power Source Connector

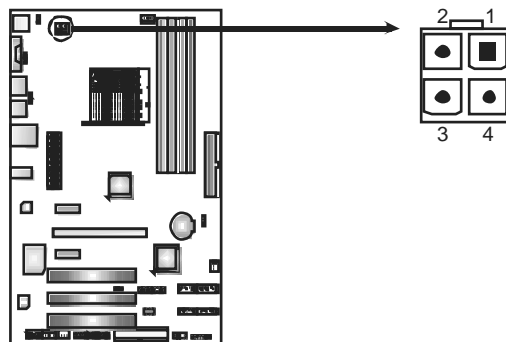
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

JATXPWR4: ATX Power Source Connector

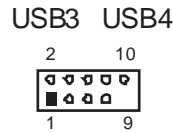
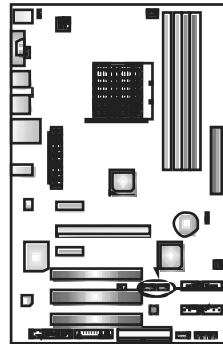
By connecting this connector, it will provide +12V to CPU power circuit.



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

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

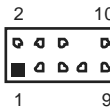
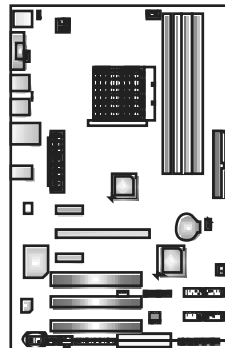
This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

JAUDIOF: Front Panel Audio Header

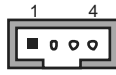
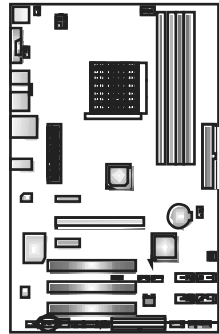
This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector; AC'97 connector is not acceptable.



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

JCDIN: CD-ROM Audio-in Connector

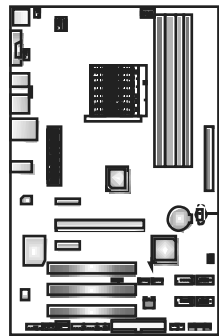
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV tuner card etc.



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

JCMOS: 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).



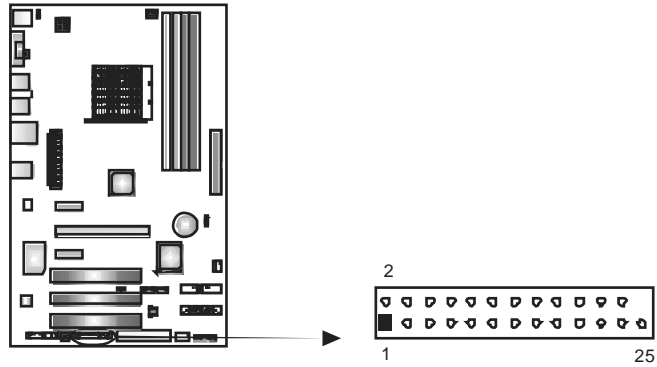
Pin 2-3 Close:
Clear CMOS data.

※ 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.

JPRNT: Printer Port Connector

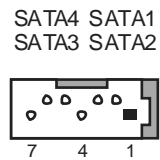
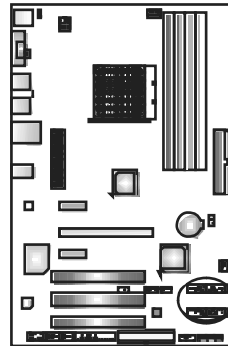
This header allows you to connector printer on the PC.



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

SATA1~SATA4: Serial ATA Connectors

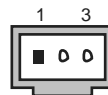
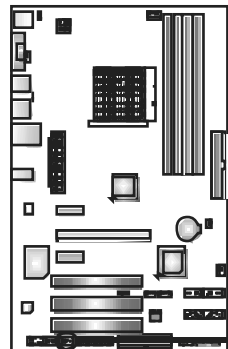
The motherboard has a PCI to SATA Controller with 4 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

JSPDIF_OUT: Digital Audio-out Connector

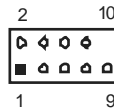
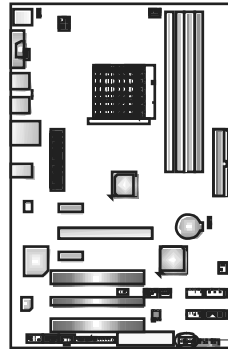
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

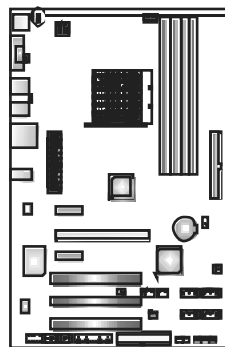
JCOM2: Serial port Connector

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



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

JKBV1: Power Source Header for PS/2 Keyboard and Mouse



Pin 1-2 Close

+5V for PS/2 keyboard and mouse.



Pin 2-3 close

+5V STB for PS/2 keyboard and mouse.

JUSBV1/JUSBV2/JUSBV3: Power Source Headers for USB Ports

Pin 1-2 Close:

JUSBV3: +5V for USB ports at JUSB1/JUSBLAN.

JUSBV2: +5V for USB ports at JUSB2.

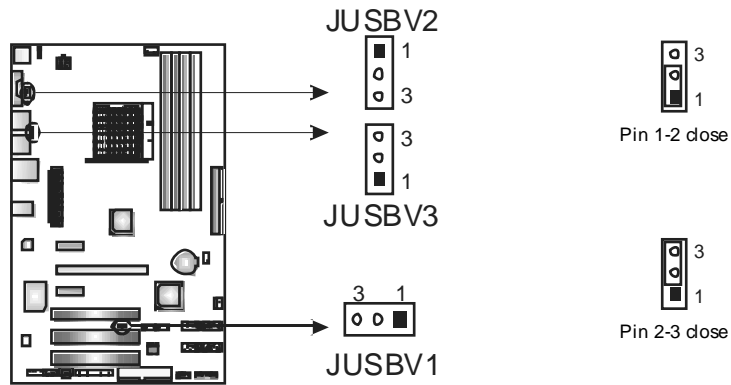
JUSBV1: +5V for USB ports at front panel (JUSB3/JUSB4).

Pin 2-3 Close:

JUSBV3: +5V STB for USB ports at JUSB1/JUSBLAN.

JUSBV2: +5V STB for USB ports at JUSB2.

JUSBV1: +5V STB for USB ports at front panel (JUSB3/JUSB4).



CHAPTER 4: RAID FUNCTIONS

4.1 OPERATION SYSTEM

Supports Windows XP Home/Professional Edition, and Windows Vista

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

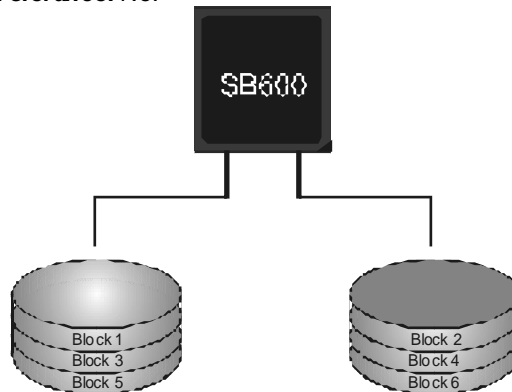
4.3 HOW RAID WORKS

RAID 0:

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

Features and Benefits

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

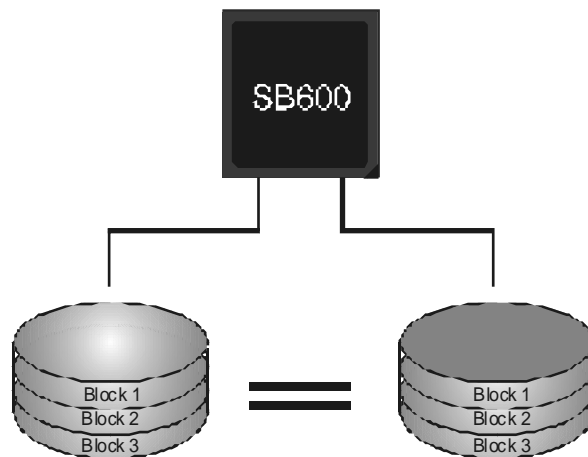


RAID 1:

Every read and write is actually carried out in parallel across 2 disk drives in a RAID 1 array system. The mirrored (backup) copy of the data can reside on the same disk or on a second redundant drive in the array. RAID 1 provides a hot-standby copy of data if the active volume or drive is corrupted or becomes unavailable because of a hardware failure. RAID techniques can be applied for high-availability solutions, or as a form of automatic backup that eliminates tedious manual backups to more expensive and less reliable media.

Features and Benefits

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

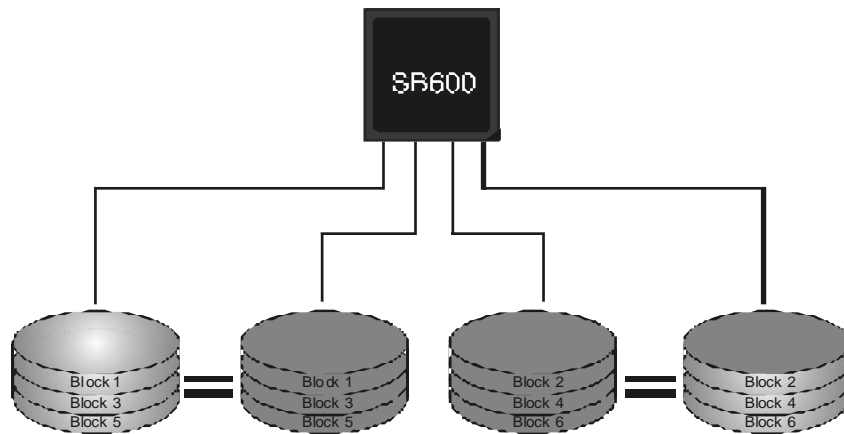


RAID 1+0:

RAID 1 drives can be striped using RAID 0 techniques. Resulting in a RAID 1+0 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.



CHAPTER 5: USEFUL HELP

5.1 DRIVER INSTALLATION NOTE

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

You will see the following window after you insert the CD



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

Note:

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

A. Driver Installation

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

B. Software Installation

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

C. Manual

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

Note:

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

5.2 AWARD BIOS BEEP CODE

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

5.3 EXTRA INFORMATION

CPU Overheated

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

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

In this case, please double check:

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

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

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

Or you can:

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

5.4 TROUBLESHOOTING

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

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APPENDENCIES: SPEC IN OTHER LANGUAGE**GERMAN**

	<i>A770 A2+</i>	<i>A740X A2+</i>
CPU	Sockel AM2 / AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet	Sockel AM2 / AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 1.0 und Cool'n'Quiet
FSB	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 5.2 GT/s	Unterstützt HyperTransport 1.0 mit einer Bandbreite von bis zu 2.0 GT/s
Chipsatz	AMD 770 AMD SB600	AMD 740X AMD SB600
Super E/A	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Court-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Court-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 512/1024/2048MB DDR2. Max. 8GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 533 / 667 / 800 Unterstützt DDR2 1066 (by AM2+ CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.	DDR2 DIMM-Steckplätze x 4 Jeder DIMM unterstützt 512/1024/2048MB DDR2. Max. 8GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 533 / 667 / 800 Unterstützt DDR2 1066 (by AM2+ CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
IDE	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA II	AMDSB600 Datenübertragungsraten bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0 Unterstützt RAID 0, 1, 1+0	AMDSB600 Datenübertragungsraten bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0 Unterstützt RAID 0, 1, 1+0

A770 A2+ /A740X A2+

	A770 A2+	A740X A2+
LAN	Realtek RTL8111C / RTL8102E(optional) 10 / 100 / 1000 Mb/s Auto-Negotiation (Gigabit-Bandbreite nur beim Realtek RTL8111C) Halb-/Voll duplex-Funktion	Realtek RTL8102E / RTL8111C(optional) 10 / 100 / 1000 Mb/s Auto-Negotiation (Gigabit-Bandbreite nur beim Realtek RTL8111C) Halb-/Voll duplex-Funktion
Audio-Codec	ALC662 5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio	ALC662 5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI Steckplatz x3 PCI Express Gen2 x16 Steckplatz x1 PCI Express Gen2 x1 Steckplatz x2	PCI Steckplatz x3 PCI Express x16 Steckplatz x1 PCI Express x1 Steckplatz x2
Onboard-Anschluss	Diskettenlaufwerkanschluss x1 Druckeranschluss Anschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 CD-IN-Anschluss x1 S/PDIF- Ausgangsanschluss x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x1 "CMOS löschen"-Sockel x1 USB-Anschluss x2 Serieller Anschluss x1 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1	Diskettenlaufwerkanschluss x1 Druckeranschluss Anschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 CD-IN-Anschluss x1 S/PDIF- Ausgangsanschluss x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x1 "CMOS löschen"-Sockel x1 USB-Anschluss x2 Serieller Anschluss x1 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1
Rückseiten-E/A	PS/2-Tastatur x1 PS/2-Maus x1 Serieller Anschluss x1 LAN-Anschluss x1 USB-Anschluss x6 Audioanschluss x3	PS/2-Tastatur x1 PS/2-Maus x1 Serieller Anschluss x1 LAN-Anschluss x1 USB-Anschluss x6 Audioanschluss x3
Platinengröße	205 mm (B) X 305 mm (L)	205 mm (B) X 305 mm (L)
OS-Unterstützung	Windows XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	Windows XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRANCE

	A770 A2+	A740X A2+
UC	Socket AM2 / AM2+ Processeurs AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet	Socket AM2 / AM2+ Processeurs AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 1.0 et Cool'n'Quiet
Bus frontal	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 5.2 GT/s	Prend en charge Hyper Transport 1.0 jusqu'à une bande passante de 2.0 GT/s
Chipset	AMD 770 AMD SB600	AMD 740X AMD SB600
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 "Garden intelligent" de l'ITE	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Garden intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 4 Chaque DIMM prend en charge des DDR2 de 512/1024/2048 Mo Capacité mémoire maximale de 8 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	Fentes DDR2 DIMM x 4 Chaque DIMM prend en charge des DDR2 de 512/1024/2048 Mo Capacité mémoire maximale de 8 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
IDE	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,
SATA II	AMD SB600 Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0 Prise en charge RAID 0, 1, 1+0	AMD SB600 Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0 Prise en charge RAID 0, 1, 1+0

A770 A2+ /A740X A2+

	A770 A2+	A740X A2+
LAN	Realtek RTL8111C / RTL8102E(optional) 10 / 100 / 1000 Mb/s négociation automatique (La bande passante Gigabit est pour le Realtek RTL8111C uniquement) Half / Full duplex capability	Realtek RTL8102E / RTL8111C(optional) 10 / 100 / 1000 Mb/s négociation automatique (La bande passante Gigabit est pour le Realtek RTL8111C uniquement) Half / Full duplex capability
Codec audio	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI x3 Fente PCI Express Gen2 x16 x1 Fente PCI Express Gen2 x1 x2	Fente PCI x3 Fente PCI Express x16 x1 Fente PCI Express x1 x2
Connecteur embarqué	Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur d'entrée CD x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x1 Embase d'effacement CMOS x1 Connecteur USB x2 Port série x1 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1	Connecteur de disquette x1 Connecteur de Port d'imprimante x1 Connecteur IDE x1 Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur d'entrée CD x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x1 Embase d'effacement CMOS x1 Connecteur USB x2 Port série x1 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1
E/S du panneau arrière	Clavier PS/2 x1 Souris PS/2 x1 Port série x1 Port LAN x1 Port USB x6 Fiche audio x3	Clavier PS/2 x1 Souris PS/2 x1 Port série x1 Port LAN x1 Port USB x6 Fiche audio x3
Dimensions de la carte	205 mm (l) X 305 mm (H)	205 mm (l) X 305 mm (H)
Support SE	Windows XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	Windows XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

	<i>A770 A2+</i>	<i>A740X A2+</i>
CPU	Socket AM2 / AM2+ Processori AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet	Socket AM2 / AM2+ Processori AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 1.0 e Cool'n'Quiet
FSB	Supporto di HyperTransport 3.0 fino a 5.2 GT/s di larghezza di banda	Supporto di HyperTransport 1.0 fino a 2.0 GT/s di larghezza di banda
Chipset	AMD 770 AMD SB600	AMD 740X AMD SB600
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	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 DDR 2 x 4 Ciascun DIMM supporta DDR2 512/1024/2048MB Capacità massima della memoria a 8GB 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	Alloggi DIMM DDR 2 x 4 Ciascun DIMM supporta DDR2 512/1024/2048MB Capacità massima della memoria a 8GB 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
IDE	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA II	AMD SB600 Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0. Supporto RAID 0,1,1+0	AMD SB600 Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0. Supporto RAID 0,1,1+0

A770 A2+ / A740X A2+

	A770 A2+	A740X A2+
LAN	Realtek RTL8111C / RTL8102E(optional) Negoziazione automatica 10 / 100 / 1000 Mb/s (la larghezza di banda Gigabit è solo per Realtek RTL8111C) Capacità Half / Full Duplex	Realtek RTL8102E / RTL8111C(optional) Negoziazione automatica 10 / 100 / 1000 Mb/s (la larghezza di banda Gigabit è solo per Realtek RTL8111C) Capacità Half / Full Duplex
Codec audio	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)
Alloggi	Alloggio PCI x3 Alloggio PCI Express Gen2 x16 x1 Alloggio PCI Express Gen2 x1 x2	Alloggio PCI x3 Alloggio PCI Express x16 x1 Alloggio PCI Express x1 x2
Connettori su scheda	Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore CD-in x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1 Connettore USB x2 Porta seriale x1 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4 pin) x1	Connettore floppy x1 Connettore Porta stampante x1 Connettore IDE x1 Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore CD-in x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1 Connettore USB x2 Porta seriale x1 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4 pin) x1
I/O pannello posteriore	Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB x6 Connettore audio x3	Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB x6 Connettore audio x3
Dimensioni scheda	205 mm (larghezza) x 305 mm (altezza)	205 mm (larghezza) x 305 mm (altezza)
Sistemi operativi supportati	Windows XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	Windows XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

	A770 A2+	A740X A2+
CPU	<p>Conector AM2 / AM2+</p> <p>Procesadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+</p> <p>La arquitectura AMD 64 permite el procesamiento de 32 y 64 bits</p> <p>Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet</p>	<p>Conector AM2 / AM2+</p> <p>Procesadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+</p> <p>La arquitectura AMD 64 permite el procesamiento de 32 y 64 bits</p> <p>Soporta las tecnologías Hyper Transport 1.0 y Cool'n'Quiet</p>
FSB	Admite HyperTransport 3.0 con un ancho de banda de hasta 5.2 GT/s	Admite HyperTransport 1.0 con un ancho de banda de hasta 2.0 GT/s
Conjunto de chips	AMD 770 AMD SB600	AMD 740X AMD SB600
Súper E/S	<p>ITE 8718F</p> <p>Le ofrece las funcionalidades heredadas de uso más común Súper E/S.</p> <p>Interfaz de cuenta Low Pin</p> <p>Iniciativas de control de entorno,</p> <p>Monitor hardware</p> <p>Controlador de velocidad de ventilador</p> <p>Función "Guarda inteligente" de ITE</p>	<p>ITE 8718F</p> <p>Le ofrece las funcionalidades heredadas de uso más común Súper E/S.</p> <p>Interfaz de cuenta Low Pin</p> <p>Iniciativas de control de entorno,</p> <p>Monitor hardware</p> <p>Controlador de velocidad de ventilador</p> <p>Función "Guarda inteligente" de ITE</p>
Memoria principal	<p>Ranuras DIMM DDR2 x 4</p> <p>Cada DIMM admite DDR de 512/1024/2048MB</p> <p>Capacidad máxima de memoria de 8GB</p> <p>Módulo de memoria DDR2 de canal Doble</p> <p>Admite DDR2 de 533 / 667 / 800</p> <p>Admite DDR2 de 1066 (by AM2+ CPU)</p> <p>No admite DIMM registrados o DIMM compatibles con ECC</p>	<p>Ranuras DIMM DDR2 x 4</p> <p>Cada DIMM admite DDR de 512/1024/2048MB</p> <p>Capacidad máxima de memoria de 8GB</p> <p>Módulo de memoria DDR2 de canal Doble</p> <p>Admite DDR2 de 533 / 667 / 800</p> <p>Admite DDR2 de 1066 (by AM2+ CPU)</p> <p>No admite DIMM registrados o DIMM compatibles con ECC</p>
IDE	<p>Controlador IDE integrado</p> <p>Modo bus maestro Ultra DMA 33/ 66 / 100/ 133</p> <p>Soporta los Modos PIO 0~4,</p>	<p>Controlador IDE integrado</p> <p>Modo bus maestro Ultra DMA 33/ 66 / 100/ 133</p> <p>Soporta los Modos PIO 0~4,</p>
SATA II	<p>AMD SB600</p> <p>Tasas de transferencia de hasta 3 Gb/s.</p> <p>Compatible con la versión SATA 2.0.</p> <p>Admite RAID 0, 1, 1+0</p>	<p>AMD SB600</p> <p>Tasas de transferencia de hasta 3 Gb/s.</p> <p>Compatible con la versión SATA 2.0.</p> <p>Admite RAID 0, 1, 1+0</p>
Red Local	<p>Realtek RTL8111C / RTL8102E (opcional)</p> <p>Negociación de 10 / 100 / 1000 Mb/s (el ancho de banda Gigabit es únicamente para Realtek RTL8111C)</p> <p>Funciones Half/ Full dúplex</p>	<p>Realtek RTL8102E / RTL8111C (opcional)</p> <p>Negociación de 10 / 100 / 1000 Mb/s (el ancho de banda Gigabit es únicamente para Realtek RTL8111C)</p> <p>Funciones Half/ Full dúplex</p>

A770 A2+ / A740X A2+

	A770 A2+		A740X A2+	
Códex de sonido	ALC662		ALC662	
	Salida de sonido de 5.1 canales Soporte de sonido de Alta Definición		Salida de sonido de 5.1 canales Soporte de sonido de Alta Definición	
Ranuras	Ranura PCI	X3	Ranura PCI	X3
	Ranura PCI Express Gen2 x16	X1	Ranura PCI Express x16	X1
	Ranura PCI express Gen2 x1	X2	Ranura PCI express x1	X2
Conectores en placa	Conector disco flexible	X1	Conector disco flexible	X1
	Conector Puerto de impresora	X1	Conector Puerto de impresora	X1
	Conector IDE	X1	Conector IDE	X1
	Conector SATA	X4	Conector SATA	X4
	Conector de panel frontal	X1	Conector de panel frontal	X1
	Conector de sonido frontal	X1	Conector de sonido frontal	X1
	Conector de entrada de CD	X1	Conector de entrada de CD	X1
	Conector de salida S/PDIF	X1	Conector de salida S/PDIF	X1
	Cabecera de ventilador de CPU	X1	Cabecera de ventilador de CPU	X1
	Cabecera de ventilador de sistema	X1	Cabecera de ventilador de sistema	X1
	Cabecera de borrado de CMOS	X1	Cabecera de borrado de CMOS	X1
	Conector USB	X2	Conector USB	X2
	Puerto serie	X1	Puerto serie	X1
	Conector de alimentación (24 patillas)	X1	Conector de alimentación (24 patillas)	X1
Conector de alimentación (4 patillas)	X1	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	Teclado PS/2	X1
	Ratón PS/2	X1	Ratón PS/2	X1
	Puerto serie	X1	Puerto serie	X1
	Puerto de red local	X1	Puerto de red local	X1
	Puerto USB	X6	Puerto USB	X6
	Conector de sonido	X3	Conector de sonido	X3
Tamaño de la placa	205 mm. (A) X 305 mm. (H)		205 mm. (A) X 305 mm. (H)	
Soporte de sistema operativo	Windows XP / VISTA		Windows XP / VISTA	
	Bióstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		Bióstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.	

PORTUGUESE

	A770 A2+	A740X A2+
CPU	Socket AM2 / AM2+ Processadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet	Socket AM2 / AM2+ Processadores AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 1.0 e Cool'n'Quiet
FSB	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 5.2 GT/s	Suporta a tecnologia HyperTransport 1.0 com uma largura de banda até 2.0 GT/s
Chipset	AMD 770 AMD SB600	AMD 740X AMD SB600
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	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	Ranhuras DIMM DDR2 x 4 Cada módulo DIMM suporta uma memória DDR2 de 512/1024/2048 MB Capacidade máxima de memória: 8GB 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	Ranhuras DIMM DDR2 x 4 Cada módulo DIMM suporta uma memória DDR2 de 512/1024/2048 MB Capacidade máxima de memória: 8GB 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
IDE	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,
SATA II	AMDSB600 Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0. Suporta as funções RAID 0, 1, 1+0	AMDSB600 Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0. Suporta as funções RAID 0, 1, 1+0

A770 A2+ / A740X A2+

	A770 A2+	A740X A2+
LAN	Realtek RTL8111C / RTL8102E(opcional) Auto negociação de 10 / 100 / 1000 Mb/s (a largura de banda Ggabit refere-se apenas à especificação Realtek RTL8111C) Capacidade semi/full-duplex	Realtek RTL8102E / RTL8111C(opcional) Auto negociação de 10 / 100 / 1000 Mb/s (a largura de banda Ggabit refere-se apenas à especificação Realtek RTL8111C) Capacidade semi/full-duplex
Codec de som	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-DefintionAudio	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-DefintionAudio
Ranhuras	Ranhura PCI x3 Ranhura PCI Express Gen2 x16 x1 Ranhura PCI Express Gen2 x1 x2	Ranhura PCI x3 Ranhura PCI Express x16 x1 Ranhura PCI Express x1 x2
Conectores na placa	Conector da unidade de disquetes x1 Conector da para impressora x1 Conector IDE x1 Conector SATA x4 Conector do painel frontal x1 Conector de áudio frontal x1 Conector para entrada de CDs x1 Conector de saída S/PDIF x1 Conector da ventoinha da CPU x1 Conector da ventoinha do sistema x1 Conector para limpeza do CMOS x1 Conector USB x2 Porta série x1 Conector de alimentação (24 pinos) x1 Conector de alimentação (4 pinos) x1	Conector da unidade de disquetes x1 Conector da para impressora x1 Conector IDE x1 Conector SATA x4 Conector do painel frontal x1 Conector de áudio frontal x1 Conector para entrada de CDs x1 Conector de saída S/PDIF x1 Conector da ventoinha da CPU x1 Conector da ventoinha do sistema x1 Conector para limpeza do CMOS x1 Conector USB x2 Porta série x1 Conector de alimentação (24 pinos) x1 Conector de alimentação (4 pinos) x1
Entradas/Saídas no painel traseiro	Teclado PS/2 x1 Rato PS/2 x1 Porta série x1 Porta LAN x1 Porta USB x6 Tomada de áudio x3	Teclado PS/2 x1 Rato PS/2 x1 Porta série x1 Porta LAN x1 Porta USB x6 Tomada de áudio x3
Tamanho da placa	205 mm (L) X 305 mm (A)	205 mm (L) X 305 mm (A)
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.	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>A770 A2+</i>	<i>A740X A2+</i>
Procesor	Socket AM2 / AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet	Socket AM2 / AM2+ AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 1.0 oraz Cool'n'Quiet
FSB	Obsługa Hyper Transport 3.0 o szerokości pasma do 5.2 GT/s	Obsługa Hyper Transport 1.0 o szerokości pasma do 2.0 GT/s
Chipset	AMD 770 AMD SB600	AMD 740X AMD SB600
Pamięć główna	Gniazda DDR2 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 512/1024/2048MB DDR2 Maks. wielkość pamięci 8GB 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	Gniazda DDR2 DIMM x 4 Każde gniazdo DIMM obsługuje moduły 512/1024/2048MB DDR2 Maks. wielkość pamięci 8GB 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 Court Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Court Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA II	AMDSB600 Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0. Obsługa RAID 0, 1, 1+0	AMDSB600 Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0. Obsługa RAID 0, 1, 1+0
LAN	Realtek RTL8111C / RTL8102E (opcja) 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości (Pasma gigabitowe wyłącznie dla Realtek RTL8111C) Działanie w trybie półowicznego/pełnego duplexu	Realtek RTL8102E / RTL8111C (opcja) 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości (Pasma gigabitowe wyłącznie dla Realtek RTL8111C) Działanie w trybie półowicznego/pełnego duplexu

A770 A2+ /A740X A2+

	A770 A2+	A740X A2+
Kodek dźwiękowy	ALC662 5.1 kanałowe wyjście audio Obsługa High-DefinitionAudio	ALC662 5.1 kanałowe wyjście audio Obsługa High-DefinitionAudio
Gniazda	Gniazdo PCI x3 Gniazdo PCI Express Gen2 x16 x1 Gniazdo PCI Express Gen2 x1 x2	Gniazdo PCI x3 Gniazdo PCI Express x16 x1 Gniazdo PCI Express x1 x2
Złącza wbudowane	Złącze napędu dyskiek x1 Złącze Port drukarki x1 Złącze IDE x1 Złącze SATA x4 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze wejścia CD x1 Złącze wyjścia S/PDIF x1 Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x1 Złącze główkowe kasowania CMOS x1 Złącze USB x2 Port szeregowy x1 Złącze zasilania (24 pinowe) x1 Złącze zasilania (4 pinowe) x1	Złącze napędu dyskiek x1 Złącze Port drukarki x1 Złącze IDE x1 Złącze SATA x4 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze wejścia CD x1 Złącze wyjścia S/PDIF x1 Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x1 Złącze główkowe kasowania CMOS x1 Złącze USB x2 Port szeregowy x1 Złącze zasilania (24 pinowe) x1 Złącze zasilania (4 pinowe) x1
Back Panel I/O	Klawiatura PS/2 x1 Mysz PS/2 x1 Port szeregowy x1 Port LAN x1 Port USB x6 Gniazdo audio x3	Klawiatura PS/2 x1 Mysz PS/2 x1 Port szeregowy x1 Port LAN x1 Port USB x6 Gniazdo audio x3
Wymiary płyty	205 mm (S) X 305 mm (W)	205 mm (S) X 305 mm (W)
Obsługa systemu operacyjnego	Windows XP /VISTA Bióstar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	Windows XP /VISTA Bióstar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

	A770 A2+	A740X A2+
CPU (центральный процессор)	Гнездо AM2 / AM2+ Процессоры AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Архитектура AMD 64 разрешает обработку данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet	Гнездо AM2 / AM2+ Процессоры AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ Архитектура AMD 64 разрешает обработку данных на 32 и 64 бит Поддержка Hyper Transport 1.0 и Cool'n'Quiet
FSB	Поддержка HyperTransport 3.0 с пропускной способностью до 5.2 GT/s	Поддержка HyperTransport 1.0 с пропускной способностью до 2.0 GT/s
Набор микросхем	AMD 770 AMD SB600	AMD 740X AMD SB600
Основная память	Слоты DDR2 DIMM x 4 Каждый модуль DIMM поддерживает 512/1024/2048МБ DDR2 Максимальная ёмкость памяти 8ГБ 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	Слоты DDR2 DIMM x 4 Каждый модуль DIMM поддерживает 512/1024/2048МБ DDR2 Максимальная ёмкость памяти 8ГБ 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)	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)
IDE	Встроенное устройство управления встроенными интерфейсами устройств Режим "хвояина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,	Встроенное устройство управления встроенными интерфейсами устройств Режим "хвояина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA II	AMDSB600 скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0. Поддержка RAID 0, 1, 1+0	AMDSB600 скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0. Поддержка RAID 0, 1, 1+0
Локальная сеть	Realtek RTL8111C / RTL8102E (дополнительно) Автоматическое согласование 10 / 100 / 1000 Мб/с (гигабитная пропускная способность только для гигабитного физического уровня) Частичная / полная дуплексная способность	Realtek RTL8102E / RTL8111C (дополнительно) Автоматическое согласование 10 / 100 / 1000 Мб/с (гигабитная пропускная способность только для гигабитного физического уровня) Частичная / полная дуплексная способность

A770 A2+ /A740X A2+

	A770 A2+		A740X A2+	
Звуковой кодек	ALC662		ALC662	
	Звуковая поддержка High-Definition 5.1канальный звуковой выход		Звуковая поддержка High-Definition 5.1канальный звуковой выход	
Слоты	Слот PCI	x3	Слот PCI	x3
	Слот PCI Express Gen2 x16	x1	Слот PCI Express x16	x1
	Слот PCI Express Gen2 x1	x2	Слот PCI Express x1	x2
Встроенный разъём	Разъём НГМД	x1	Разъём НГМД	x1
	Разъём Порт подключения принтера	x1	Разъём Порт подключения принтера	x1
	Разъём IDE	x1	Разъём IDE	x1
	Разъём SATA	x4	Разъём SATA	x4
	Разъём на лицевой панели	x1	Разъём на лицевой панели	x1
	Входной звуковой разъём	x1	Входной звуковой разъём	x1
	Разъём ввода для CD	x1	Разъём ввода для CD	x1
	Разъём вывода для S/PDIF	x1	Разъём вывода для S/PDIF	x1
	Контактирующее приспособление вентилятора центрального процессора	x1	Контактирующее приспособление вентилятора центрального процессора	x1
	Контактирующее приспособление вентилятора системы	x1	Контактирующее приспособление вентилятора системы	x1
	Открытое контактирующее приспособление CMOS	x1	Открытое контактирующее приспособление CMOS	x1
	USB-разъём	x2	USB-разъём	x2
	Последовательный порт	x1	Последовательный порт	x1
	Разъём питания (24 вывод)	x1	Разъём питания (24 вывод)	x1
Разъём питания (4 вывод)	x1	Разъём питания (4 вывод)	x1	
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	Клавиатура PS/2	x1
	Мышь PS/2	x1	Мышь PS/2	x1
	Последовательный порт	x1	Последовательный порт	x1
	Порт LAN	x1	Порт LAN	x1
	USB-порт	x6	USB-порт	x6
Размер панели	205 мм (Ш) X 305 мм (В)		205 мм (Ш) X 305 мм (В)	
	Гнезд для подключения наушников		Гнезд для подключения наушников	
Поддержка OS	x3		x3	
	Windows XP /VISTA		Windows XP /VISTA	
Поддержка OS	Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	

ARABIC

A740X A2+	A770 A2+	
AM2 / AM2+ معقن معالجات AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ إجراء العمليات لحلوية ببسوة 32 و 64 بت AMD 64/تكن تقية Hyper Transport 1.0 و Cool'n'Quiet تدعم تقية	AM2 / AM2+ معقن معالجات AMD Athlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ إجراء العمليات لحلوية ببسوة 32 و 64 بت AMD 64/تكن تقية Hyper Transport 3.0 و Cool'n'Quiet تدعم تقية	وحدة لمعالجة المركبة
2.0 GT/s بتربديصل إلى HyperTransport 1.0 تدعم تقية	5.2 GT/s بتربديصل إلى HyperTransport 3.0 تدعم تقية	النقل الأمامي لجلبى
AMD 740X AMD SB600	AMD 770 AMD SB600	مجموعة لشرايح
4 عدد قحة DDR2 DIMM سعة DDR2 دعم ذاكرة من نوع DIMM 512/1024/2048 ميغا بايت و 1 جيجا بايت سعة ذاكرة قصوى 8 جيجا بايت مزوجة لقر DDR2 وحدة ذاكرة ميغا بايت 800/667/533 سعة DDR2 تدعم الذاكرة من نوع 1066 (By AM2+ CPU) سعة DDR2 تدعم الذاكرة من نوع ميغا بايت ECC وتلك التي لا تتوقف مع DIMM لا دعم رقائى الذاكرة	4 عدد قحة DDR2 DIMM سعة DDR2 دعم ذاكرة من نوع DIMM 512/1024/2048 ميغا بايت و 1 جيجا بايت سعة ذاكرة قصوى 8 جيجا بايت مزوجة لقر DDR2 وحدة ذاكرة ميغا بايت 800/667/533 سعة DDR2 تدعم الذاكرة من نوع 1066 (By AM2+ CPU) سعة DDR2 تدعم الذاكرة من نوع ميغا بايت ECC وتلك التي لا تتوقف مع DIMM لا دعم رقائى الذاكرة	الذاكرة الرئيسية
ITE 8718F الأكثر لتخدلما، Super I/O توفر وظيفة Low Pin Count Interface تدعم تقية وسائل لتحكم في ليبة مرقب لمعوفة حللة الأجهزة مرقب في بسوة لمروحة ITE من "Smart Guardian" وظيفة	ITE 8718F الأكثر لتخدلما، Super I/O توفر وظيفة Low Pin Count Interface تدعم تقية وسائل لتحكم في ليبة مرقب لمعوفة حللة الأجهزة مرقب في بسوة لمروحة ITE من "Smart Guardian" وظيفة	Super I/O
متكلم IDE متحكم Ultra DMA 33 / 66 / 100 / 133 نقل بتقية وضع رئيسي PIO Mode 0~4 دعم وضع	متكلم IDE متحكم Ultra DMA 33 / 66 / 100 / 133 نقل بتقية وضع رئيسي PIO Mode 0~4 دعم وضع	منفذ IDE
AMDSB600 نقل البيانات بسرعات تصل إلى 3 جيجابت/ثانية. الإصدار SATA مطابقة لمواصفات RAID 0, 1, 1+0 تدعم تقية	AMDSB600 نقل البيانات بسرعات تصل إلى 3 جيجابت/ثانية. الإصدار SATA مطابقة لمواصفات RAID 0, 1, 1+0 تدعم تقية	SATA II
Realtek RTL8102E /RTL8111C (اختياري) قروض تقائى 100/10 ميغا بايت / ثانية و 1 جيجا بايت/ثانية Realtek RTL8111C لظلاق لترندى للجيجا بايت مقصور قط على إمكانية لنقل لمزدوج كامل/لصفي	Realtek RTL8111C /RTL8102E (اختياري) قروض تقائى 100/10 ميغا بايت / ثانية و 1 جيجا بايت/ثانية Realtek RTL8111C لظلاق لترندى للجيجا بايت مقصور قط على إمكانية لنقل لمزدوج كامل/لصفي	شبكة داخلية

A770 A2+ /A740X A2+

A740X A2+		A770 A2+		
ALC662	تدعم تقوية الصوت عالي التعريف من 5.1 قنوات لخرج الصوت	ALC662	تدعم تقوية الصوت عالي التعريف من 5.1 قنوات لخرج الصوت	كوديك الصوت
3 عدد فتحة PCI		3 عدد فتحة PCI		التحت
1 عدد فتحة PCI Express x16		1 عدد فتحة PCI Express Gen2 x16		
2 عدد فتحة PCI Express x1		2 عدد فتحة PCI Express Gen2 x1		
1 عدد مقعد محرك أقراص مرنة		1 عدد مقعد محرك أقراص مرنة		المنافذ على سطح اللوحة
1 عدد مقعد طابعة		1 عدد مقعد طابعة		
1 عدد مقعد IDE		1 عدد مقعد IDE		
4 عدد مقعد SATA		4 عدد مقعد SATA		
1 عدد مقعد اللوحة الأممية		1 عدد مقعد اللوحة الأممية		
1 عدد مقعد الصوت الأممي		1 عدد مقعد الصوت الأممي		
1 عدد مقعد CD-IN		1 عدد مقعد CD-IN		
1 عدد مقعد خرج S/PDIF		1 عدد مقعد خرج S/PDIF		
1 عدد وصلة مروحة وحدة المعالجة المركزية		1 عدد وصلة مروحة وحدة المعالجة المركزية		
1 عدد وصلة مروحة النظم		1 عدد وصلة مروحة النظم		
1 عدد وصلة مسح CMOS		1 عدد وصلة مسح CMOS		
2 عدد مقعد USB		2 عدد مقعد USB		
1 عدد مقعد تسلسلي		1 عدد مقعد تسلسلي		
1 عدد مقعد توصيل الطاقة (24دوس)		1 عدد مقعد توصيل الطاقة (24دوس)		
1 عدد مقعد توصيل الطاقة (4دبليس)		1 عدد مقعد توصيل الطاقة (4دبليس)		
1 عدد لوحة مفاتيح PS/2		1 عدد لوحة مفاتيح PS/2		منافذ دخل/خرج اللوحة الخلفية
1 عدد مؤس PS/2		1 عدد مؤس PS/2		
1 عدد مقعد تسلسلي		1 عدد مقعد تسلسلي		
1 عدد مقعد شبكة اتصال محلية		1 عدد مقعد شبكة اتصال محلية		
6 عدد منافذ USB		6 عدد منافذ USB		
3 عدد مقيس صوت		3 عدد مقيس صوت		
205 مم (عرض) X 305 مم (ارتفاع)		205 مم (عرض) X 305 مم (ارتفاع)		حجم اللوحة
Windows XP / VISTA بحيث في إضافة أو إزالة ادم لاني نظام تشغيل باحظر أو Biostar تحفظ بيون إخطل.		Windows XP / VISTA بحيث في إضافة أو إزالة ادم لاني نظام تشغيل باحظر أو Biostar تحفظ بيون إخطل.		دم أنظمة لتشغيل

JAPANESE

	A770 A2+	A740X A2+
CPU	Socket AM2 / AM2+ AMDAthlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ プロセッサ AMD64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	Socket AM2 / AM2+ AMDAthlon 64 / Athlon 64 FX / Athlon 64 X2 / Sempron / AM2+ プロセッサ AMD64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1.0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	2.0 GT/sのバンド幅までハイパートランスポート1.0をサポートします
チップセット	AMD 770 AMD SB600	AMD 740X AMD SB600
メインメモリ	DDR2 DIMMスロット x 4 各DIMMは 512/1024/2048MB DDR2をサポート 最大メモリ容量8GB デュアル チャンネルモードDDR2メモリモジュール DDR2 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	DDR2 DIMMスロット x 4 各DIMMは 512/1024/2048MB DDR2をサポート 最大メモリ容量8GB デュアル チャンネルモードDDR2メモリモジュール DDR2 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 もともと一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能	ITE 8718F もともと一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能
IDE	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、	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	AMDSB600 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。 RAID 0, 1, 1+0のサポート	AMDSB600 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。 RAID 0, 1, 1+0のサポート
LAN	Realtek RTL8111C / RTL8102E(オプション) 10 / 100 / 1000 Mb/秒のオートネゴシエーション (Gigabitバンド幅はRealtek RTL8111C専用です) 半/全二重機能	Realtek RTL8102E / RTL8111C(オプション) 10 / 100 / 1000 Mb/秒のオートネゴシエーション (Gigabitバンド幅はRealtek RTL8111C専用です) 半/全二重機能

A770 A2+ / A740X A2+

	A770 A2+	A740X A2+
サウンド Codec	ALC662 ハイデフィニションオーディオのサポート 5.1チャンネルオーディオアウト	ALC662 ハイデフィニションオーディオのサポート 5.1チャンネルオーディオアウト
スロット	PCIスロット x3 PCI Express Gen2 x16スロット x1 PCI Express Gen2 x1スロット x2	PCIスロット x3 PCI Express x16スロット x1 PCI Express x1スロット x2
オンボードコ ネクタ	フロッピーコネクタ x1 プリンタポートコネクタ x1 IDEコネクタ x1 SATAコネクタ x4 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CDインコネクタ x1 S/PDIFアウトコネクタ x1 CPUファンヘッダ x1 システムファンヘッダ x1 CMOSクリアヘッダ x1 USBコネクタ x2 シリアルポート x1 電源コネクタ (24ピン) x1 電源コネクタ (4ピン) x1	フロッピーコネクタ x1 プリンタポートコネクタ x1 IDEコネクタ x1 SATAコネクタ x4 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CDインコネクタ x1 S/PDIFアウトコネクタ x1 CPUファンヘッダ x1 システムファンヘッダ x1 CMOSクリアヘッダ x1 USBコネクタ x2 シリアルポート x1 電源コネクタ (24ピン) x1 電源コネクタ (4ピン) x1
背面パネル I/O	PS/2キーボード x1 PS/2マウス x1 シリアルポート x1 LANポート x1 USBポート x6 オーディオジャック x3	PS/2キーボード x1 PS/2マウス x1 シリアルポート x1 LANポート x1 USBポート x6 オーディオジャック x3
ボードサイズ	205 mm (幅) X 305 mm (高さ)	205 mm (幅) X 305 mm (高さ)
OSサポート	Windows XP / VISTA Bicstarは事前のサポートなしにOSサポートを追加ま たは削除する権利を留保します。	Windows XP / VISTA Bicstarは事前のサポートなしにOSサポートを追加ま たは削除する権利を留保します。

2008/01/21