FCC Information and Copyright

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here without obligation to notify any party beforehand.

Duplication of this publication, in part or in whole, is not allowed without first obtaining the vendor's approval in writing.

The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

PACKAGE CHECKLIST

- FDD Cable x 1
- HDD Cable x 1
- SPDIF Cable x 1
- User's Manual x 1
- Overclock Guide x 1
- Serial ATA Cable x 2
- Fully Setup Driver CD x 1
- Rear I/O Panel for ATX Case x 1
- USB 2.0 Cable x 1 (optional)

Chapter 1: Introduction

1.1 MOTHERBOARD FEATURES

TForce 6100-939

CPU

- Supports Socket 939.
- Supports AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2 processors.
- Supports AMD Sempron processor.
- AMD 64 architecture enables simultaneous 32 and 64 bit computing.
- Supports HyperTransport Technlology up to 2000MT/s.
- Supports AMD Cool'n'Quiet Technology.

Dimensions

- Micro ATX Form Factor: 24.5cm (W) x 24.45cm (L)

Main Memory

- Supports Dual Channel DDR.
- Supports DDR 266/333/400.
- Maximum memory space is 4GB, supporting 4 DIMM sockets.

TForce 6100

CPU

- Supports Socket 754.
- Supports AMD Athlon 64 processor up to 3700+.
- Supports AMD Sempron processor.
- Supports HyperTransport Technology up to 1600MT/s.

Dimensions

- Micro ATX Form Factor: 21.86cm (W) x 24.4cm (L)

Main Memory

- Supports DDR 266/333/400.
- Maximum memory space is 2GB, supporting 2 DIMM sockets.

Chipset

- North Bridge: NVIDIA Geforce6100.
- South Bridge: NVIDIA nForce 410.

Super I/O

- Chip: ITE IT8712F.
- Environment Control initiatives,
  - H/W Monitor
  - Fan Speed Controller
  - ITE's "Smart Guardian" function

IDE

- 2 on-board connectors support 4 IDE disk drives.
- Supports PIO mode 0~4, Block Mode and Ultra DMA 33/66/100/133 bus master mode.

Serial ATA

- nForce 410 supports SATA 2.0 specification, with data transfer rates up to 3Gb/s.

AC'97 Audio Sound Codec

- Chip: ALC655, supports 6 channels audio output.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, supports ACPI, PCI power management.

Operating Systems

- Supports Windows 2000 and Windows XP.
  Note: *Does not support Windows 98SE and Windows ME.*

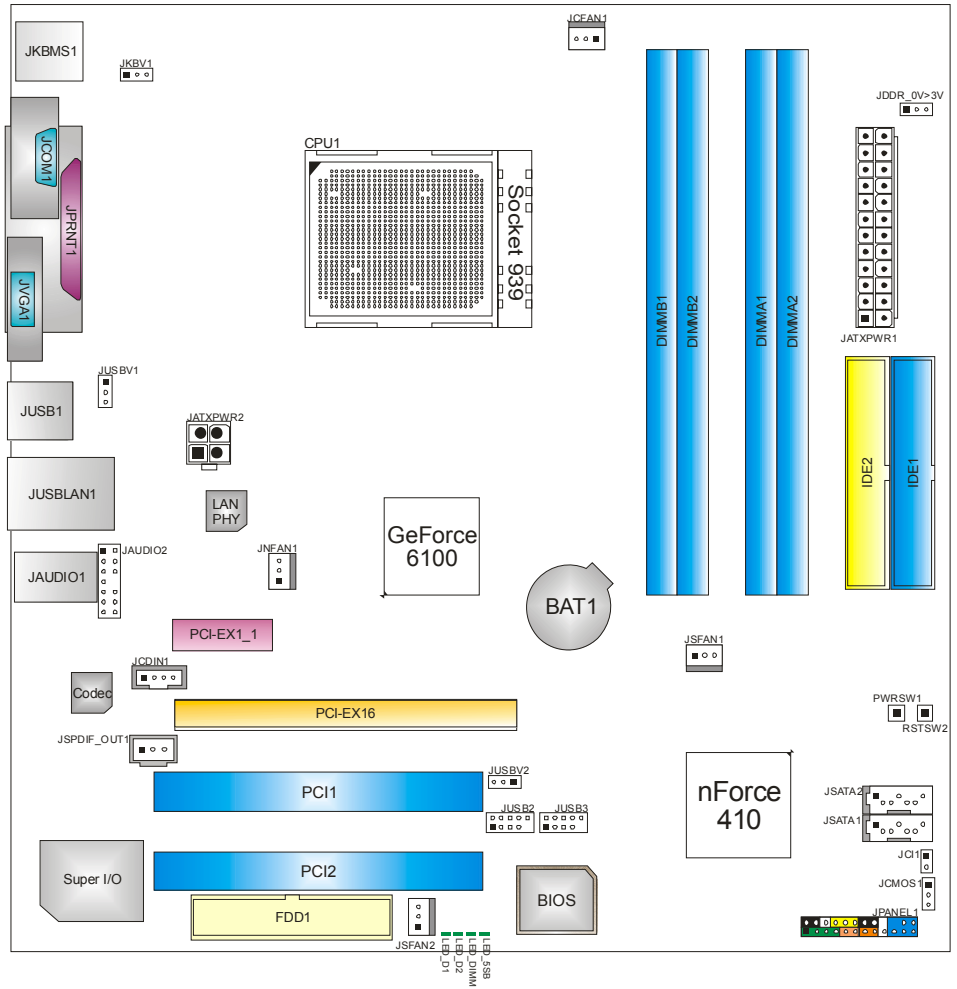
Internal On-board Slots and Connectors

- One PCI-Express X1 slot.
- One PCI-Express X16 slot.
- One SPDIF-Out connector.
- One CD-ROM audio-in connector.
- Two PCI slots.
- Two SATA ports.
- Two Ultra DMA 133/100/66/33 IDE connectors.

Back Panel I/O Connectors and Ports

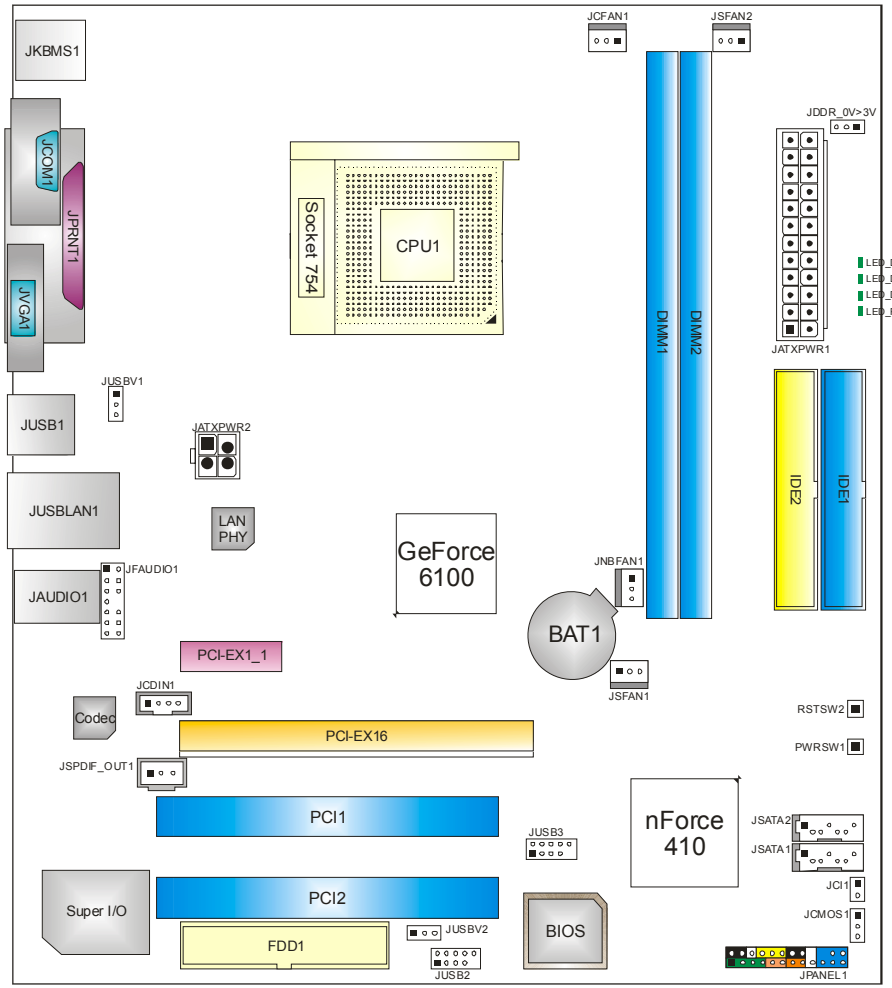
- 4 USB 2.0 Ports.
- 1 VGA Port.
- 1 Serial Port.
- 1 Printer Port.
- 1 RJ-45 LAN jack.
- 1 PS/2 Mouse Port.
- 1 PS/2 Keyboard Port.
- 1 Vertical audio port including 1 Line-in connector, 1 Line-out connector, and 1 MIC-in connector.

1.2 LAYOUT AND COMPONENTS: TFORCE 6100-939



Note: ■ represents the 1st pin.

1.3 LAYOUT AND COMPONENTS: TFORCE 6100



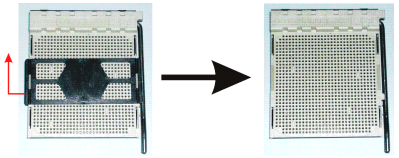
Note: ■ represents the 1st pin.

Chapter 2: Hardware Installations

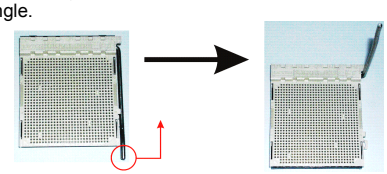
2.1 CPU ASSEMBLY

A. Central Processing Unit (CPU) for Socket 939

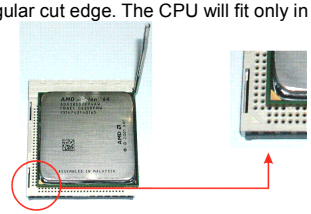
Step 1:
Remove the socket protection cap.



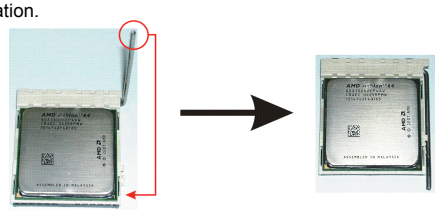
Step 2:
Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



Step 3:
Look for the triangular cut edge on socket, and the golden dot on CPU should point towards this triangular cut edge. The CPU will fit only in the correct orientation.



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

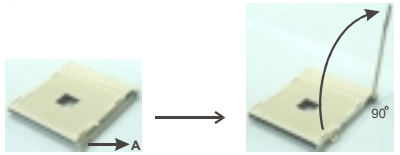


Step 5: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

B. Central Processing Unit (CPU) for Socket 754

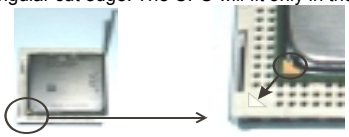
Step 1:

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



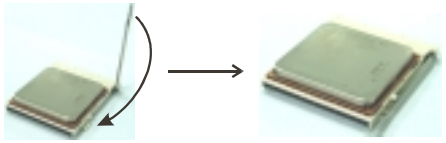
Step 2:

Look for the triangular cut edge on socket, and the white dot on CPU should point towards this triangular cut edge. The CPU will fit only in the correct orientation.



Step 3:

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

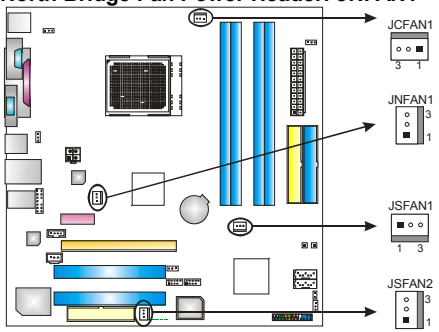


Step 4: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

C. About FAN Headers

TForce 6100-939

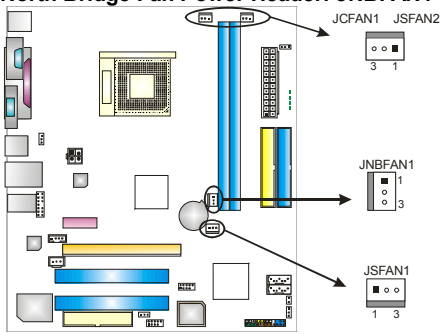
CPU Fan Power Header: JCFAN1
System Fan Power Headers: JSFAN1/JSFAN2
North Bridge Fan Power Header: JNFAN1



Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense (Does not support JSFAN2.)

TForce 6100

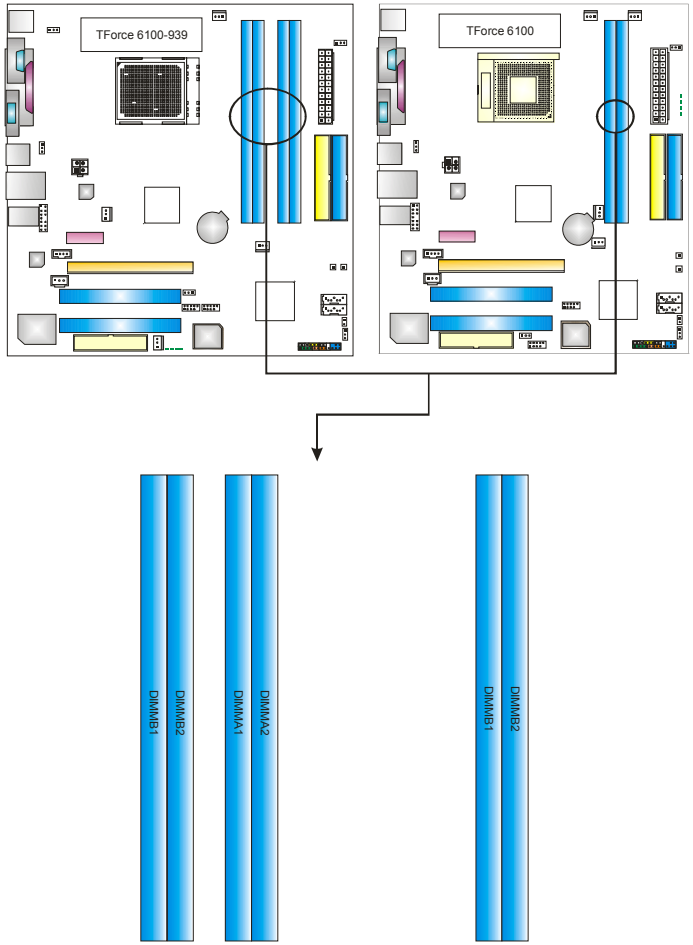
CPU Fan Power Header: JCFAN1
System Fan Power Headers: JSFAN1/JSFAN2
North Bridge Fan Power Header: JNBFAN1



Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense (Does not support JSFAN2.)

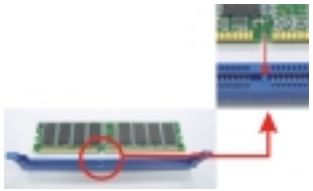
Note:
JCFAN1 reserves system cooling fan with Smart Fan Control utilities. It supports 3 pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.2 SYSTEM MEMORY

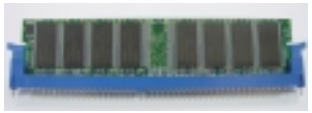


A. DDR Modules

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 snaps back in place and the DIMM is properly seated.



Notes:
To remove the DDR modules, push the ejector tabs at both sides of the slot outward at the same time, and pull the modules out vertically.

B. Memory Space

For TForce 6100-939

DIMM Socket Location	DDR Module	Total Memory Size
DIMMA1	128MB/256MB/512MB/1GB *1	Max is 4 GB.
DIMMA2	128MB/256MB/512MB/1GB *1	
DIMMB1	128MB/256MB/512MB/1GB *1	
DIMMB2	128MB/256MB/512MB/1GB *1	

For TForce 6100

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DIMM1	128MB/256MB/512MB/1GB *1	Max is 2 GB.
DIMM2	128MB/256MB/512MB/1GB *1	

C. DDR Installation Notice

- For AMD K8 939 CPU launched before Rev. E, please follow the table below to install your DDR memory module, or the system may not boot up or may not function properly. (Please refer to Table 1 for CPU Revision)
- "SS" represents Single Side DDR memory module.
- "DS" represents Double Side DDR memory module.
- Star sign "*" represents leave the DIMM socket empty.

DIMMA1	SS/DS	*	SS/DS	SS/DS
DIMMA2	*	SS/DS	SS/DS	SS/DS
DIMMB1	*	*	*	SS/DS
DIMMB2	*	*	*	SS/DS

D. Know your CPU version

AMD Athlon™ 64 Processor Ordering Part Number Example

ADA 3200 A E P 5 AP

Part Definition: AP = Rev C0

Table 1: AMD Athlon™ 64 Processor Part Definition

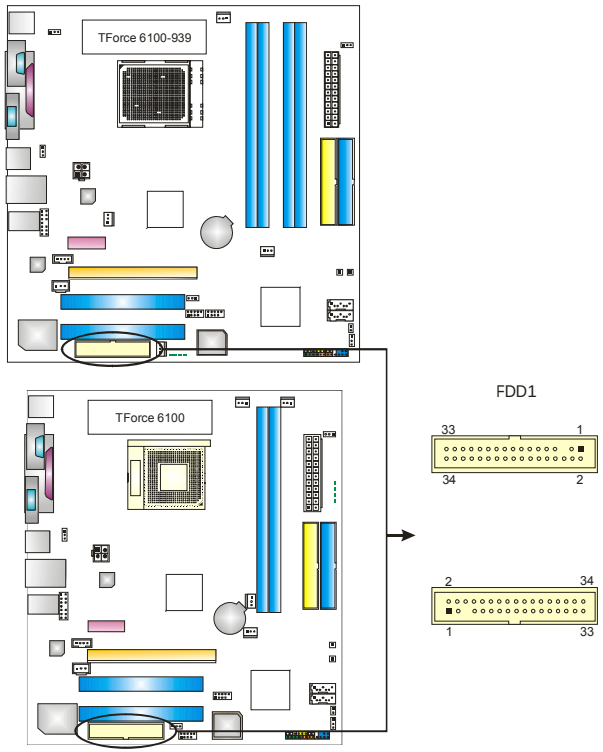
Part Definition	Revision	Part Definition	Revision
AP	Rev C0	BN	Rev E4
AR	Rev CG	BP	Rev E3
AS	Rev CG	BO	Rev E3
AW	Rev CG	BY	Rev E6
AX	Rev CG	BW	Rev E6
AZ	Rev CG		
BI	Rev D0		

2.3 PERIPHERALS

A. Card and I/O Slots:

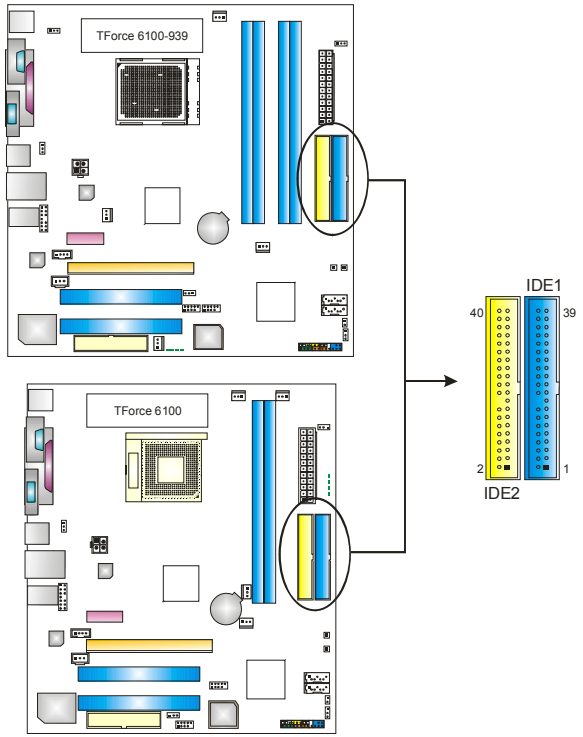
Floppy Disk Connector: FDD1

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.



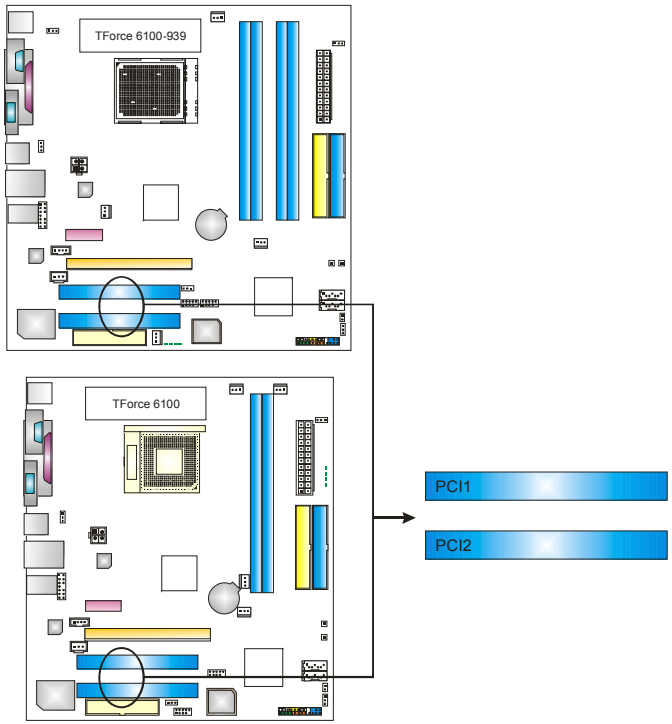
Hard Disk Connectors: IDE1/IDE2

The motherboard has two 32-bit Enhanced PCI IDE Controllers that provide PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary). The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.



Peripheral Component Interconnect Slots: PCI1~PCI2

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



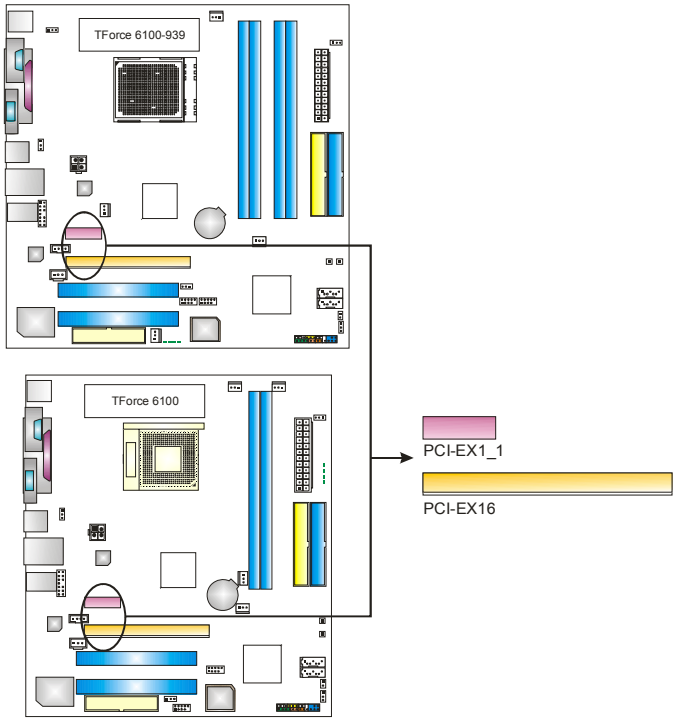
PCI-Express Slots

PCI-EX16:

- PCI Express 1.0a compliant.
- Maximum bandwidth is up to 4GB/s per direction.

PCI-EX1_1:

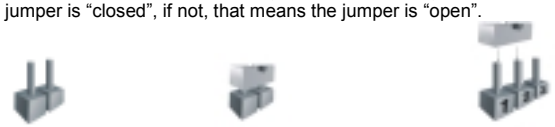
- PCI Express 1.0a compliant.
- Maximum bandwidth is up to 250MB/s per direction.



B. Connectors and Headers:

How to setup Jumpers

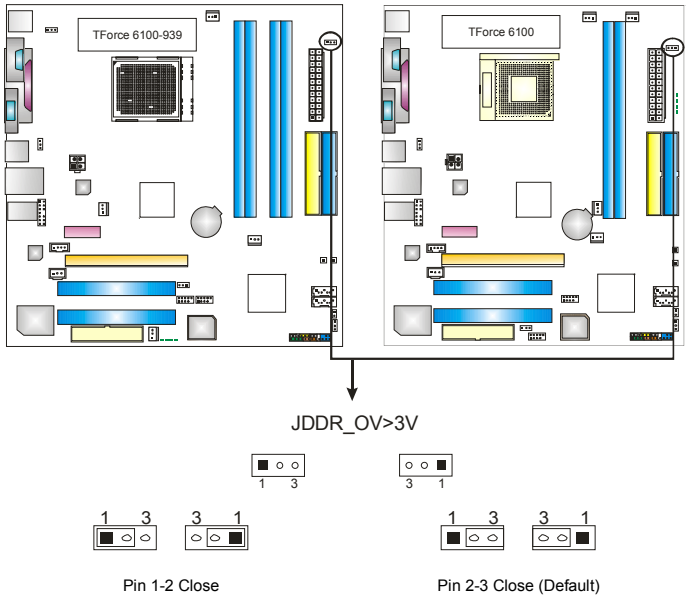
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “closed”, if not, that means the jumper is “open”.



Pin opened Pin closed Pin1-2 closed

Memory Voltage Header: JDDR_OV>3V

When processing Memory voltage overclocking, please place the jumper to pin1-2 closed. The default setting is pin2-3 closed.



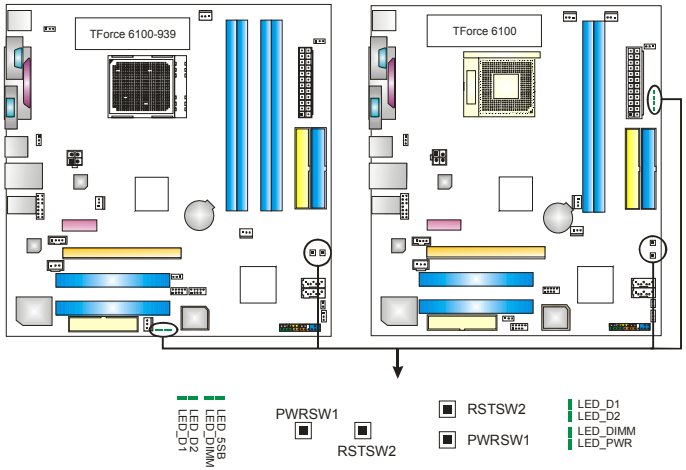
Pin 1-2 Close Pin 2-3 Close (Default)

Note:

1. When “JDDR_OV>3V” jumper cap is placed on Pin 2-3, memory voltage can be manually adjusted under CMOS setup.
2. When “JDDR_OV>3V” jumper cap is placed on Pin 1-2, memory voltage will be fixed at 3.3V automatically, and can’t be adjusted under COMS setup.
3. Before setting memory voltage overclocking, please ensure that your DDR supports up to 3V. (Consulting your DDR supplier)

LED Indicators and Buttons

There are 4 LED indicators on the motherboard to show system status.



LED_D1 and LED_D2:

These 2 LED indicate system power on diagnostics.

Please refer to the table below for different messages:

LED_D1	LED_D2	Message
ON	ON	Normal
ON	OFF	Memory Error
OFF	ON	VGA Error
OFF	OFF	CPU / Chipset Error

LED_DIMM:

This LED indicates the voltage of memory is activated normally.

LED_5SB/LED_PWR:

This LED indicates the system is ready for Power-on.

PWRSW1:

This is an on-board Power Switch button.

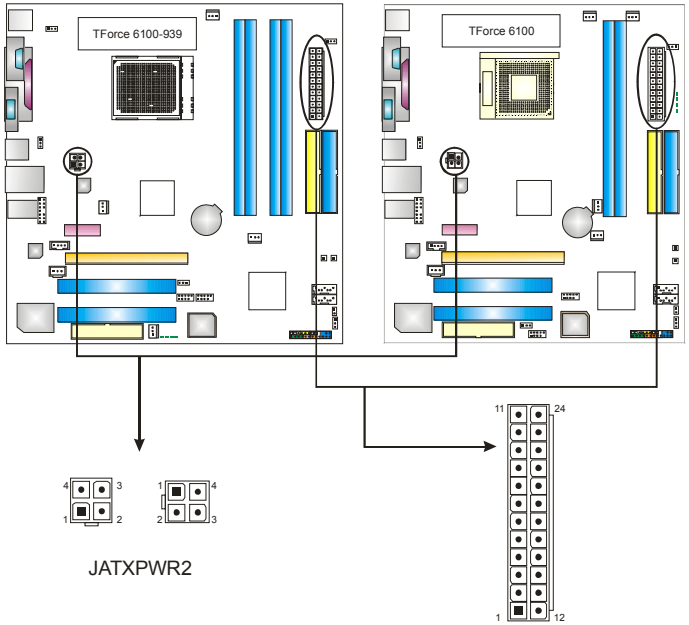
RSTSW2:

This is an on-board Reset button.

ATX Power Source Connectors: JATXPWR1/JATXPWR2

JATXPWR1 allows user to connect 24-pin power connector on the ATX power supply.

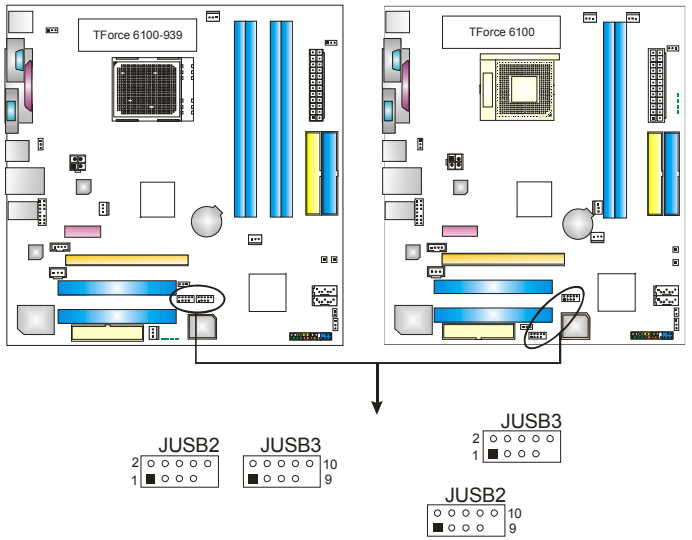
By connecting JATXPWR2, it will provide +12V to CPU power circuit.



JATXPWR1:				JATXPWR2:	
Pin	**Assignment**	**Pin**	**Assignment**	**Pin**	**Assignment**
1	+3.3V	13	+3.3V	1	+12V
2	+3.3V	14	-12V	2	+12V
3	Ground	15	Ground	3	Ground
4	+5V	16	PS_ON	4	Ground
5	Ground	17	Ground		
6	+5V	18	Ground		
7	Ground	19	Ground		
8	PW_OK	20	-5V		
9	Standby Voltage+5V	21	+5V		
10	+12V	22	+5V		
11	+12V	23	+5V		
12	Detect	24	Ground		

Headers for USB Ports at Front Panel: JUSB2~JUSB3

This connector allows user to connect additional USB cables at PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

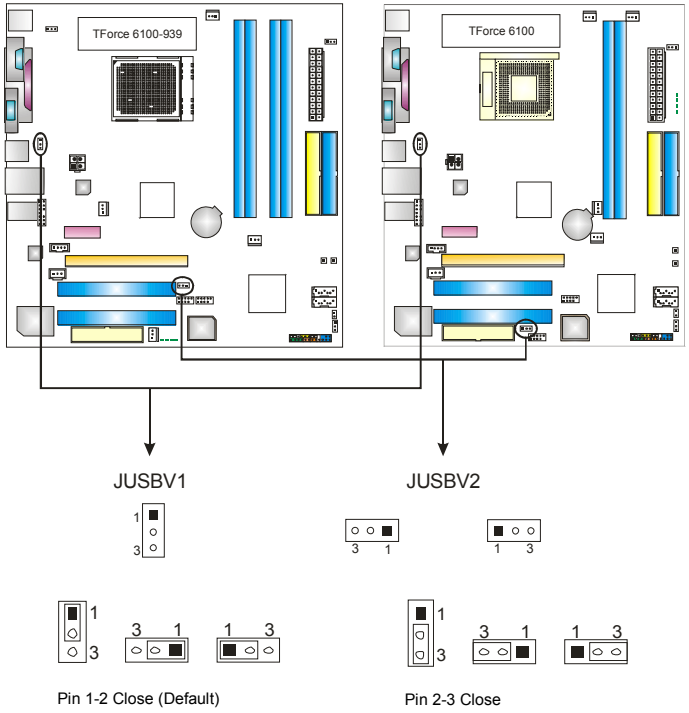
Power Source Headers for USB Ports: JUSBV1/JUSBV2

Pin 1-2 Close:

JUSBV1: +5V for USB ports at JUSB1 and JUSBLAN1.
JUSBV2: +5V for front USB headers (JUSB2/JUSB3).

Pin 2-3 Close:

JUSBV1: USB ports at JUSB1 and JUSBLAN1 are powered with +5V standby voltage.
JUSBV2: Front USB headers (JUSB2/JUSB3) are powered with +5V standby voltage.



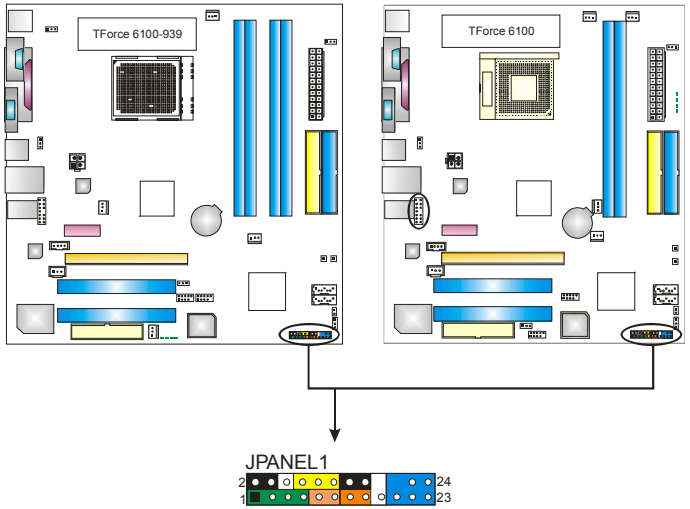
Pin 1-2 Close (Default) Pin 2-3 Close

Note:

In order to support this function “Power-on system via USB device,” “JUSBV1/JUSBV2” jumper cap should be placed on Pin 2-3 individually.

JPANEL1: Header for Front Panel Facilities

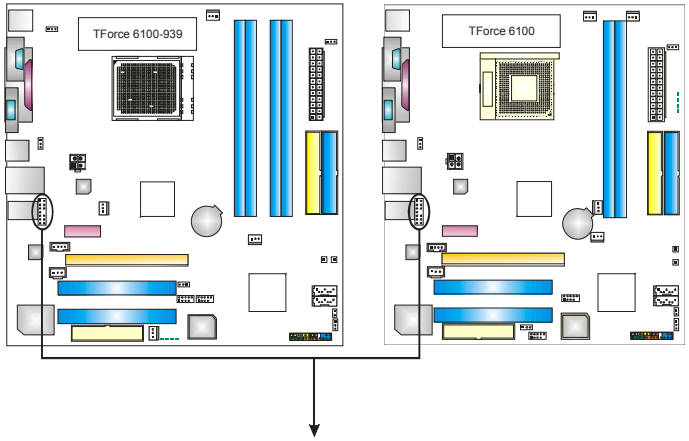
This 24-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button, speaker and IrDA Connection. It allows user to connect the PC case’s front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep control	Sleep button
3	N/A		4	Ground	
5	N/A		6	N/A	N/A
7	Speaker		8	Power LED (+)	Power LED
9	HDD LED (+)	Hard drive LED	10	Power LED (+)	
11	HDD LED (-)		12	Power LED (-)	
13	Ground	Reset button	14	Power button	Power-on button
15	Reset control		16	Ground	
17	N/A		18	Key	
19	N/A	IrDA Connector	20	Key	IrDA Connector
21	+5V		22	Ground	
23	IRTX		24	IRRX	

Front Panel Audio-out Header: JAUDIO2/JFAUDIO1

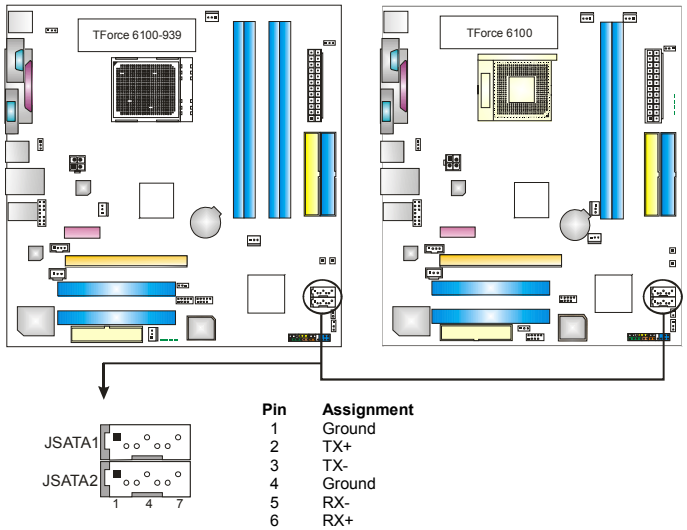
This connector will allow user to connect with the front audio output headers on the PC case. It will disable the output on back panel audio connectors.



Pin	Assignment	Pin	Assignment
1	MIC-in/ Stereo MIC-in R	8	Key
2	Ground	9	Left line-out/ Speaker-out Left
3	Stereo MIC-in L	10	Left line-out/ Speaker-out Left
4	Audio power	11	Right line-in (optional)
5	Right line-out/ Speaker-out Right	12	Right line-in (optional)
6	Right line-out/ Speaker-out Right	13	Left line-in (optional)
7	Reserved	14	Left line-in (optional)

Serial ATA Connectors: JSATA1~JSATA2

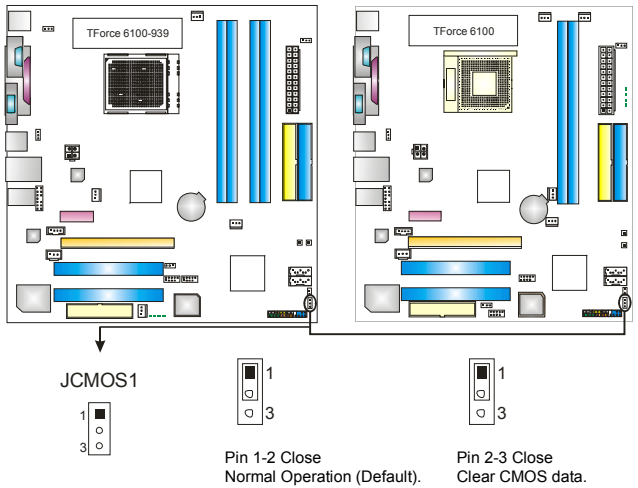
The motherboard has an SATA Controller in nForce410 with 2 channels SATA interface, it satisfies SATA 2.0 spec with transfer rate of 3.0 Gb/s.



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

Clear CMOS Header: JCMOS1

By placing the jumper on pin 2-3, 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.

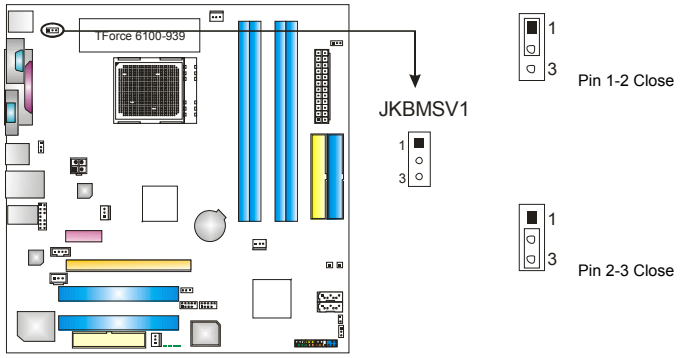
※ Clear CMOS Procedures:

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.

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

Pin 1-2 Close: +5V for PS/2 keyboard and mouse..

Pin 2-3 Close: PS/2 keyboard and mouse are powered with +5V standby voltage.

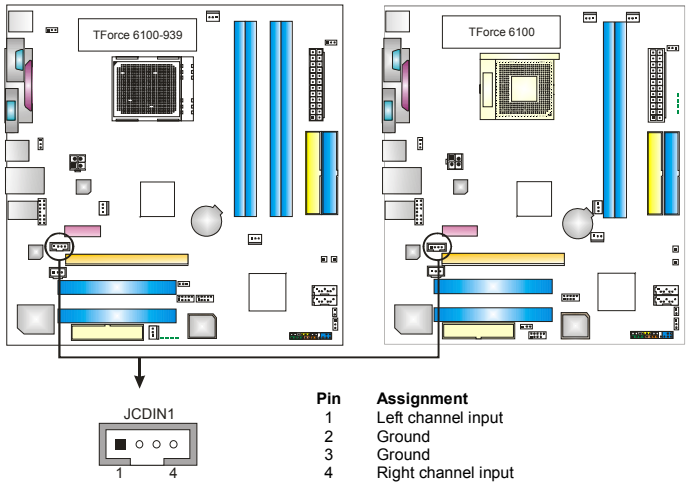


Note:

In order to support this function “Power-on system via keyboard and mouse”, “JKBMSV1” jumper cap should be placed on Pin 2-3.

CD-ROM Audio-in Connector: JCDIN1

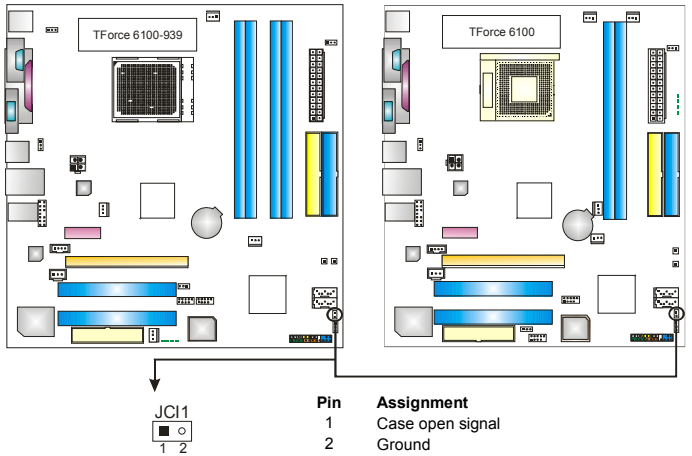
This connector allows user to connect the audio source from a variety of devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV tuner card etc..



Pin	Assignment
1	Left channel input
2	Ground
3	Ground
4	Right channel input

Case Open Header: JCI1

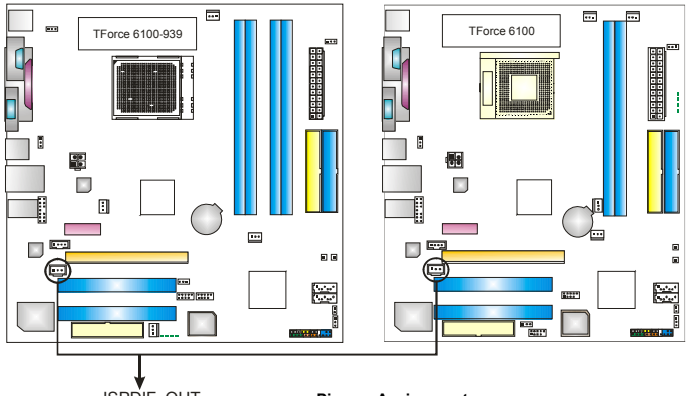
This connector allows system to monitor PC case open status. If the signal has been triggered, it will record to the CMOS and show the message on next boot-up.



Pin	Assignment
1	Case open signal
2	Ground

Digital Audio-out Connector: JSPDIF_OUT

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



Pin	Assignment
1	+5V
2	SPDIF OUT
3	Ground

CHAPTER 3: USEFUL HELP

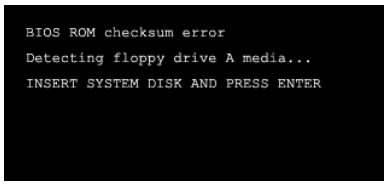
3.1 AWARD BIOS BEEP CODE

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 boots-up	No error found during POST
Long beeps every other second	No DRAM detected or installed

3.2 EXTRA INFORMATION

A. BIOS Update

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



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

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

B. CPU Overheated

If the system shuts down automatically after power on of system for a few seconds that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid damaging the CPU, and the system will 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 rotating normally.
3. CPU fan speed is fulfilling the CPU speed.

After confirmation, please follow the steps below to relieve the CPU protection function.

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

Or you can:

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

3.3 TROUBLESHOOTING

Problem	Solution
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.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. 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.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and application files. 2. 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.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

German

TForce 6100-939

CPU

- Unterstützt Sockel 939.
- Unterstützt AMD Athlon 64 FX- / Athlon 64- / Athlon 64 X2-Prozessoren.
- Unterstützt AMD Sempron Prozessoren.
- AMD 64-Architektur ermöglicht 32- und 64-Bit-Verarbeitung.
- Unterstützt HyperTransport™-Techologie bis zu 2000 MHz.
- Unterstützt AMD Cool'n'Quiet™.

Abmessungen

- Mikro-ATX-Formfaktor: 24.45cm (L) x 24.5cm (B)

Systemspeicher

- Unterstützt Dual-Kanal DDR.
- Unterstützt DDR333 / DDR400/ DDR266.
- Unterstützt die Speichergröße von maximal 4GB mit 4 DIMM-Steckplätze.

TForce 6100

CPU

- Unterstützt Sockel 754..
- Unterstützt AMD Athlon 64 Prozessoren bis zu 3700+.
- Unterstützt AMD Sempron Prozessoren.
- Unterstützt HyperTransport™-Techologie bis zu 1600 MHz.

Abmessungen

- Mikro-ATX-Formfaktor: 24.4cm (L) x 21.86cm (B)

Systemspeicher

- Unterstützt DDR333 / DDR400/ DDR266.
- Unterstützt die Speichergröße von maximal 2GB mit 2 DIMM-Steckplätze.

Chipsatz

- North Bridge: NVIDIA Geforce6100.
- South Bridge: NVIDIA nForce 410.

Super E/A

- Chip: ITE IT8712F.
- Systemumgebungskontrolle,
  - Hardwareüberwachung
  - Lüfterdrehzahl-Controller
  - "Smart Guardian"-Funktion von ITE

IDE

- Zwei integrierte Anschlüsse für 4 Geräte.
- Unterstützt PIO-Modus 0~4, Blockmodus und Ultra DMA 33/66/100/133 Bus-Mastermodus.

Serial ATA II

- nForce 410 unterstützt die Serial ATA 2.0-Spezifikation, datentransferrate von bis zu 3GB/s.

AC'97 Audio Sound Codec

- Chip: ALC655, unterstützt 6 Kanäle.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, unterstützt die ACPI, PCI-Energieverwaltung.

Betriebssystemunterstützung

- Unterstützt Windows 2000 und Windows XP.
  Hinweis: *Windows 98SE und Windows ME werden nicht unterstützt.*

Interne integrierte Steckplätze und Anschlüsse

- 1 PCI-Express x1-Steckplatz
- 1 PCI-Express x16-Steckplatz
- 1 CD-ROM-Audioeingang
- 1 S/PDIF-Ausgangsanschluss
- 2 PCI-Steckplätze
- 2 Serial ATA II-Anschlüsse
- 2 Ultra DMA 133/100/66/33 IDE-Anschlüsse

Rücktafel-E/A-Anschlüsse

- 4 USB 2.0-Anschlüsse
- 1 VGA Anschluss
- 1 serieller Anschluss
- 1 drucker Anschluss
- 1 RJ-45 LAN-Anschluss
- 1 PS/2-Mausanschluss
- 1 PS/2-Tastaturanschluss
- 6 Audioanschlüsse für 8-Kanal-Audioausgabefunktionen.

French

TForce 6100-939

Processeur

- Prise en charge de939.
- Supporte les processeurs AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2.
- Prise en charge des processeurs AMD Sempron.
- Architecture AMD 64 activant des operations 32 et 64 bits.
- Supporte Technologie HyperTransport™ jusqu'à 2000MHz.
- Supporte les technologies HyperTransport™ et AMD Cool'n'Quiet™.

Dimensions

- Facteur de forme Micro ATX: 24.45cm (Long) x 24.5cm (Larg)

Mémoire système

- Prise en charge des DDR2 double canal.
- Prise en charge de DDR333 / DDR400.
- Espace mémoire maximum de 16GB, prenant en charge 4 barrettes DIMM.

TForce 6100

Processeur

- Supporte le socket 754.
- Supporte les processeurs AMD Athlon 64 jusqu'à 3700+.
- Prise en charge des processeurs AMD Sempron.
- Supporte Technologie HyperTransport™ jusqu'à 1600MHz.

Dimensions

- Facteur de forme Micro ATX: 24.4cm (Long) x 21.86cm (Larg)

Mémoire système

- Prise en charge de DDR333 / DDR400..
- Espace mémoire maximum de 2GB, prenant en charge 2 barrettes DIMM.

Chipset

- North Bridge: NVIDIA Geforce6100.
- South Bridge: NVIDIA nForce 410.

E/S disque

- Chip: ITE IT8712F.
- Initiatives Contrôle d'environnement,
  - Moniteur matériel
  - Contrôleur de vitesse de ventilateur
  - Fonction "Smart Guardian" d'ITE

IDE

- Deux connecteurs sur carte permettant la prise en charge de 4 périphériques.
- Prise en charge PIO mode 0~4, Block Mode et mode bus maître Ultra DMA 33/66/100/133.

ATA II Série

- nForce 410 prise en charge des spécifications ATA 2.0 Série, débit de transfert des données jusqu'à 3 Go/s.

Codec audio AC'97

- Chip: ALC655, prise en charge 6 canaux.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, prise en charge Gestion de l'alimentation ACPI, PCI.

Systèmes d'exploitation pris en charge

- Prise en charge de Windows 2000 et Windows XP.
  Note: *Windows 98SE et Windows ME ne sont pas pris en charge.*

Emplacements et connecteurs sur carte internes

- 1 emplacement PCI-Express x1
- 1 emplacement PCI-Express x16
- 1 connecteur S/PDIF-Out
- 1 connecteur d'entrée CD-ROM audio-in
- 2 emplacements PCI
- 2 ports série ATA II
- 2 connecteurs IDE Ultra DMA 133/100/66/33

Connecteurs E/S panneau arrière

- 4 ports USB 2.0
- 1 port VGA
- 1 port imprimeur
- 1 port série
- 1 prise LAN RJ-45
- 1 port souris PS/2
- 1 port clavier PS/2
- 1 port audio vertical comprenant 1 connecteur d'entrée Line-in, 1 connecteur de sortie Line-out, et 1 connecteur d'entrée MIC-in.

Italian

TForce 6100-939

CPU

- Supporto di Socket 939.
- Supporto di processori AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2.
- Supporto processore AMD Sempron.
- L'architettura AMD 64 abilita la computazione simultanea 32 e 64 bit.
- Tecnologia HyperTransport™ fino a 2000MHz.
- Supporto AMD Cool'n'Quiet™.

Dimensioni

- Fattore di forma ATX micro: 24.45cm (L) x 24.5cm (P)

Memoria di sistema

- Supporto di moduli DDR a doppio canale.
- Supports di DDR266/DDR333 /DDR400.
- Lo spazio massimo di memoria è 4 GB e supporta 4 prese DIMM.

TForce 6100

CPU

- Supporto di Socket 754.
- Supporto AMD Athlon 64 fino a 3700+.
- Supporto processore AMD Sempron.
- Tecnologia HyperTransport™ fino a 1600MHz.

Dimensioni

- Fattore di forma ATX micro: 24.4cm (L) x 21.86cm (P)

Memoria di sistema

- Supports di DDR266/DDR333 /DDR400.
- Lo spazio massimo di memoria è 2 GB e supporta 2 prese DIMM.

Chipset

- North Bridge: NVIDIA Geforce6100.
- South Bridge: NVIDIA nForce 410.

Super I/O

- Chip: ITE IT8712F.
- Funzioni di controllo dell'ambiente,
  - Monitoraggio hardware
  - Controller velocità ventolina
  - Funzione "Smart Guardian" di ITE

IDE

- Due connettori integrati supportano 4 dispositivi.
- Modalità: PIO 0-4, bus master Block e Ultra DMA 33/66/100/133.

Serial ATA II

- nForce 410 supporto specifiche Serial ATA 2.0, velocità di trasferimento dei dati fino 3GB/s.

Audio Codec AC'97

- Chip: ALC655, supporto di 6 canali.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, supporto gestione energetica ACPI, PCI.

Sistemi operativi supportati

- Supporto di Windows 2000 e Windows XP.
  Nota: *Non supporta Windows 98SE e Windows ME.*

Connettori e alloggiamenti interni integrato

- 1 alloggiamento PCI-Express x1
- 1 alloggiamento PCI-Express x16
- 1 connettore S/PDIF-out
- 1 connettore ingresso audio CD-ROM
- 2 alloggiamenti PCI
- 2 porte Serial ATA
- 2 connettori Ultra DMA 133/100/66/33 IDE

Connettori I/O del pannello posteriore

- 4 porte USB 2.0
- 1 porta VGA
- 1 porta Serial
- 1 porta stampatore
- 1 connettore LAN RJ-45
- 1 porta mouse PS/2
- 1 porta tastiera PS/2
- 1 porta audio verticale che include: 1 connettore Line-in (ingresso linea), 1 connettore Line-out (uscita linea) ed 1 connettore MIC-in (ingresso microfono).

Spanish

TForce 6100-939

Procesador

- Soporta el Socket 939.
- Supporta los procesadores AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2.
- Compatible con el procesador AMD Sempron.
- La arquitectura AMD 64 permite computación de 32 bits y 64 bits de manera simultánea.
- Admite la tecnología HyperTransport de hasta 2000 MT/s.
- Suporta la tecnología AMD Cool'n'Quiet™.

Dimensiones

- Formato Micro ATX: 29.35cm (LA) x 23.4cm (AN)

Memoria del sistema

- Compatible con admite DDR de canal dual.
- Compatible con admite DDR266/333/400.
- Espacio máximo de memoria de 4 GB, que admite 4 zócalos DIMM.

TForce 6100

Procesador

- Soporta el Socket 754.
- Admite procesador AMD Athlon 64 de hasta 3700+.
- Compatible con el procesador AMD Sempron.
- Admite la tecnología HyperTransport de hasta 1600 MT/s.

Dimensiones

- Formato Micro ATX: 21.86cm (LA) x 21.86cm (AN)

Memoria del sistema

- Compatible con Admite DDR266/333/400.
- Espacio máximo de memoria de 2 GB, que admite 2 zócalos DIMM.

Conjunto de chips

- North Bridge: NVIDIA Geforce6100.
- South Bridge: NVIDIA nForce 410.

Súper E/S

- Procesador: ITE IT8712F.
- Iniciativas de control medioambiental:
  - Supervisor H/W
  - Controlador de la velocidad del ventilador
  - Función "Guardián inteligente" de ITE

IDE

- Dos conectores integrados que admiten 4 dispositivos.
- Admite el modo PIO 0~4, el modo de bloque y el modo de bus maestro Ultra DMA 33/66/100/133.

Serial ATA II

- nForce 410 compatible con la especificación Serial ATA 2.0, tasa de transferencia de datos de hasta 3 GB/s.

Códec de audio AC'97

- Procesador: ALC655, admite 6 canales.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, admite administración de energía ACPI.

Sistemas operativos compatibles

- Compatible con Windows 2000 y Windows XP.
  Nota: *no compatible con Windows 98SE ni Windows ME.*

Conectores y ranuras integrados e internos

- 1 ranura 1X PCI-Express
- 1 ranura 16X PCI-Express
- 1 conector de salida S/PDIF
- 1 conector de entrada de audio en CD-ROM
- 2 ranuras PCI
- 2 puertos Serial ATA II
- 2 conectores Ultra DMA 133/100/66/33 IDE

Back Conectores de E/S del panel posterior

- 4 puertos USB 2.0
- 1 puertos VGA
- 1 puertos Serial
- 1 puerto impresora
- 1 conector de red LAN RJ-45
- 1 puerto para ratón PS/2
- 1 puerto para teclado PS/2
- 1 puerto de audio vertical que incluye un conector de entrada de línea, un conector de salida de línea y un conector de entrada de micrófono.

Portuguese

TForce 6100-939

CPU

- Suporta o socket 939.
- Suporta processadores AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2.
- Suporta um processador AMD Sempron.
- A arquitectura AMD 64 permite uma computação de 32 e 64 bits em simultâneo.
- Suporta a tecnologia HyperTransport™ até 2000 MHz.
- Suporta a tecnologia AMD Cool'n'Quiet™.

Dimensões

- Factor de forma Micro ATX: 24.45cm (C) x 24.5cm (L)

Memória do sistema

- Suporta DDR de duplo canal.
- Suporta módulos DDR333 / DDR400.
- Capacidade máxima da memória: 4GB, suportando 4 sockets DIMM.

TForce 6100

CPU

- Suporta o socket 754.
- Suporta um processador AMD Sempron.
- Suporta um processador AMD 64 até 3700+.
- Suporta a tecnologia HyperTransport™ até 1600 MHz.

Dimensões

- Factor de forma Micro ATX: 24.4cm (C) x 21.86cm (L)

Memória do sistema

- Suporta módulos DDR333 / DDR400.
- Capacidade máxima da memória: 2GB, suportando 2 sockets DIMM.

Chipset

- Ponte Norte: NVIDIA Geforce6100.
- Ponte Sul: NVIDIA nForce 410.

Especificação Super I/O

- Chip: ITE IT8712F.
- Iniciativas para controlo do ambiente,
  - Monitorização do hardware
  - Controlador da velocidade da ventoinha
  - Função "Smart Guardian" da ITE

IDE

- Dois conectores na placa para 4 dispositivos.
- Suporta o modo PIO 0~4, o modo Block e o modo bus master Ultra DMA 33/66/100/133.

Serial ATA

- nForce 410 suporta a especificação Serial ATA 2.0, velocidade de transferência de dados até3 GB/s.

Codec de som AC'97

- Chip: ALC655, suporta 6 canais.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, suporta a gestão de energia ACPI, PCI.

Sistemas operativos suportados

- Suporta o Windows 2000 e o Windows XP.
  Nota: *Não suporta o Windows 98SE e o Windows ME.*

Conectores e ranhuras internos na placa

- 1 ranhura PCI Express x1
- 1 ranhura PCI Express x16
- 1 conector S/PDIF-Out
- 1 conector CD-ROM para entrada de áudio
- 2 ranhuras PCI
- 2 portas Serial ATA II
- 2 conectores Ultra DMA 133/100/66/33 IDE

Conectores I/O do painel traseiro

- 4 portas USB 2.0
- 1 porta VGA
- 1 porta série
- 1 porta impressora
- 1 tomada LAN RJ-45
- 1 porta para rato PS/2
- 1 porta para teclado PS/2
- 1 porta de áudio vertical incluindo 1 conector de entrada de linha, 1 conector de saída de linha e 1 conector de entrada para microfone.

Poland

TForce 6100-939

CPU

- Obsługa gniazd Socket 939.
- Obsługa procesorów AMD Athlon 64 FX / Athlon 64 /Athlon 64 X2.
- Obsługa procesorów AMD Sempron
- Architektura AMD 64 umożliwiająca jednoczesne przetwarzanie 32 i 64 bitowe.
- Obsługa HyperTransport Technology do 2000MT/s.
- Obsługa AMD Cool'n'Quiet™.

Wymiary

- Obudowa Mikro ATX: 24.5cm (D) x 24.45cm (S)

Pamięć systemowa

- Obsługa DDR dual channel.
- Obsługa DDR266/DDR333 / DDR400.
- Maksymalna wielkość pamięci wynosi 4GB z obsługą 4 gniazd DIMM.

TForce 6100

CPU

- Obsługa gniazd Socket 754.
- Obsługa procesorów AMD Athlon 64 do 3700+.
- Obsługa procesorów AMD Sempron
- Obsługa HyperTransport Technology do 2000MT/s.

Wymiary

- Obudowa Mikro ATX: 24.4cm (D) x 21.86cm (S)

Pamięć systemowa

- Obsługa DDR266/DDR333 / DDR400.
- Maksymalna wielkość pamięci wynosi 2GB z obsługą 2 gniazd DIMM.

Chipset

- Mostek północny: NVIDIA Geforce6100.
- Mostek południowy: NVIDIA nForce 410.

Super I/O

- Chip: ITE IT8712F.
- Inicjatywy kontroli środowiska,
  - Monitor H/W
  - Kontroler prędkości wentylatora
  - Funkcja ITE "Smart Guardian"

IDE

- Dwa wbudowane złącza z możliwością obsługi 4 urządzeń.
- Obsługa trybu PIO 0~4, Block Mode (tryb Blok) oraz tryb magistrali głównej Ultra DMA 33/66/100/133.

Serial ATA II

- nForce 410 obsługa specyfikacji Serial ATA 2.0, transfer danych do 3GB/s.

Kodek dźwięku AC'97

- Chip: ALC655, obsługa 6 kanałów.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, obsługa zarządzania zasilaniem ACPI, PCI.

Obsługiwane systemy operacyjne

- Obsługa Windows 2000 oraz Windows XP.
  Uwaga: *Brak obsługi Windows 98SE oraz Windows ME.*

Wewnętrzne, wbudowane gniazda oraz złącza

- 1 gniazdo PCI-Express x1
- 1 gniazdo PCI-Express x16
- 1 złącze wyjścia S/PDIF
- 1 złącze wejścia audio CD-ROM
- 2 gniazda PCI
- 2 porty Serial ATA II
- 2 złącza Ultra DMA 133/100/66/33 IDE

Złącza I/O na panelu tylnym

- 4 porty USB 2.0
- 1 port VGA
- 1 port drukarki
- 1 port szeregowy
- 1 gniazdo LAN RJ-45
- 1 port myszy PS/2
- 1 port klawiatury PS/2
- 1 pionowy port audio zawierający 1 złącze wejścia liniowego, 1 złącze wyjścia liniowego i 1 złącze wejścia mikrofonu.

Russian

TForce 6100-939

CPU

- Поддерживает гнездо 939.
- Поддерживает процессоры AMD Athlon 64 FX, Athlon 64, Athlon 64 X2.
- Поддерживает процессоры AMD Sempron.
- Архитектура AMD 64 допускает одновременную работу в 32-разрядном и 64-разрядном режимах.
- Поддержка технологии HyperTransport до 2000 млн. передач в секунду.
- Поддерживает технологии AMD Cool'n'Quiet™.

Размеры

- Форм-фактор Микро-ATX: 24.45cm x 24.5 (Д x Ш)

Системная память

- Поддержка двухканальной памяти DDR.
- Поддерживает DDR266/DDR333 / DDR400.
- Максимальный объем памяти 4 Гб в 4 гнездах DIMM.

TForce 6100

CPU

- Поддерживает гнездо 754.
- Поддерживает процессоры AMD Athlon 64 до 3700+.
- Поддерживает процессоры AMD Sempron.
- Поддержка технологии HyperTransport до 1600 млн. передач в секунду.

Размеры

- Форм-фактор Микро-ATX: 24.4cm x 21.86cm (Д x Ш)

Системная память

- Поддерживает DDR266/DDR333 / DDR400.
- Максимальный объем памяти 2 Гб в 2 гнездах DIMM.

Набор микросхем

- Северный мост: NVIDIA Geforce6100
- Южный мост: NVIDIA nForce 410.

Супер ввод-вывод

- Контроллер: ITE IT8712F.
- Функции управления режимом эксплуатации,
  - Монитор состояния оборудования
  - Контроллер скорости вентиляторов

IDE

- Два встроенных разъема поддерживают подключение четырех жестких дисков IDE.
- Поддержка режимов PIO 0–4, Block Mode и Ultra DMA 33/66/100/133.

Serial ATA

- nForce 410 Поддерживает спецификацию Serial ATA 2.0, скорость передачи данных до или 3 Гб/с.

Звуковой кодек AC'97

- Контроллер: ALC655, Поддерживает 6-канальный звук.

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL.
- Поддерживает управление питанием ACPI, PCI.

Поддерживаемые операционные системы

- Поддерживает Windows 2000 и Windows XP.
  Примечание: *не поддерживает Windows 98SE и Windows ME.*

Встроенные разъемы ввода-вывода

- 1 слот PCI Express x1
- 1 слот PCI Express x16
- 1 разъем S/PDIF-выхода
- 1 Один входной разъем звукового сигнала с привода для компакт-дисков
- 2 слота PCI
- 2 порта Serial ATA II
- 2 разъем Ultra DMA 133/100/66/33 IDE

Разъемы ввода-вывода на задней панели

- 4 порта USB 2.0
- 1 порт мыши VGA
- 1 последовательный порт
- 1 порт принтер
- 1 гнездо RJ-45 ЛВС
- 1 порт мыши PS/2
- 1 порт клавиатуры PS/2
- 1 вертикальный звуковой порт, содержащий 1 разъем линейного входа, 1 разъем линейного выхода и 1 разъем микрофонного входа.

Arabic

TForce 6100-939

وحدة المعالجة المركزية (CPU)

- **تدعم قاعدة توصيل** 939.
- **تدعم معالجات** AMD Athlon 64 FX / Athlon 64 X2.
- **تدعم معالجات** AMD Sempron processor.
- دعم تقنية Hyper Transport حتى 2000 نقلة ميجا في الثانية.
- **تتيح بنية** AMD 64 **الحساب المتزامن** 32 **و** 64 **بت**.
- **تدعم تقنية** ™AMD Cool'n'Quiet.

الأبعاد

- عامل نموذج **مايكرو** ATX: 24.45 سم (الطول) × 24.5 سم (العرض)

ذاكرة النظام

- دعم الذاكرة DDR ثنائية القناة.
- تدعم DDR 400/ 533/667.
- **أقصى مساحة للذاكرة** 4 **جيجابايت، مع دعم** 4 **منافذ** DIMM.

TForce 6100

وحدة المعالجة المركزية (CPU)

- **تدعم قاعدة توصيل** 754.
- دعم معالج AMD Athlon 64 حتى سرعات تزيد على 3700.
- **تدعم معالجات** AMD Sempron processor.
- دعم تقنية Hyper Transport حتى 1600 نقلة ميجا في الثانية.

الأبعاد

- عامل نموذج **مايكرو** ATX: 24.4 سم (الطول) × 21.86 سم (العرض)

ذاكرة النظام

- تدعم DDR 400/333/266.
- **أقصى مساحة للذاكرة** 2 **جيجابايت، مع دعم** 2 **منافذ**DIMM.

مجموعة الشرائح

- الجسر الشمالي: NVIDIA nForce 410.
- الجسر الجنوبي: NVIDIA nForce 410.

دخل/خرج فائق

- الشريحة: ITE IT8712F.
- مبادرات التحكم في البيئة،
  - مراقبة H/W
  - وحدة تحكم في سرعة المروحة
  - وظيفة "الواقي الذكي" من ITE

IDE

- موصلان على اللوحة يدعمان أربعة أجهزة.
- دعم وضع الدخل/الخرج المبرمج (PIO) 4-0، ووضع القفل والأوضاع الرئيسية للنقل من خلال الوصول الفائق للذاكرة مباشرة (Ultra DMA 33/66/100/133).

سلسلة ATA II

- وحدة تحكم متكاملة مع nForce 410.
- يتوافق nForce 410 مع مواصفات SATA 2.0 وذلك بخصوص معدل نقل بيانات الذي يصل إلى 3 جيجا في الثانية.

شفرة صوت AC'97

- الشريحة: ALC655 تدعم 6 قنوات خرج صوت

توصيل شبكي بسرعة نقل 10/100

- PHY: RTL8201BL/RTL8201CL ودعم إدارة الطاقة من خلال ACPI و PCI.

نظم التشغيل المدعمة

- يدعم Windows 2000 وWindows XP.

ملاحظة: *لا يوجد دعم لنظامي تشغيل Windows 98SE وWindows ME.*

منافذ توصيل وفتحات اللوحة الداخلية

- 1 فتحة PCI-Express × 1
- 1 فتحة PCI-Express × 16
- 1 منفذ توصيل خرج SPDIF-Out واحد
- 1 منفذ توصيل دخل صوت CD-ROM واحد
- 2 فتحتان PCI
- 2 منفذان SATA II
- 2 منفذا توصيل IDE Ultra DMA 133/100/66/33

موصلات المدخلات/المخرجات باللوحة الخلفية

- 4 منافذ USB 2.0
- 1 منفذ VGA
- 1 منفذ تسلسي
- 1 منفذ طابعة
- 1 قابس RJ-45 LAN
- 1 منفذ ماوس PS/2
- 1 منفذ لوحة مفاتيح PS/2
- 1 **منفذ صوت رأسي يشتمل على** 1 **طرف توصيل خط داخل و**1 **طرف توصيل خط خارج و**1 **طرف توصيل دخل الميكروفون**.

Japanese

TForce 6100-939

CPU

- Socket 939 をサポート。
- AMD Athlon 64 FX / Athlon 64 / Athlon 64 X2 プロセッサをサポート。
- AMD Sempron プロセッサをサポート。
- AMD 64 アーキテクチャにより、32 ビットと 64 ビットの同時コンピューティングが可能。
- ハイパートランスポートテクノロジに対応、最大 2000MHz。
- AMD Cool’n’Quiet™ テクノロジをサポート。

サイズ

- マイクロ ATX フォームファクタ: 24.45cm (長さ) x 24.5cm (幅)

システムメモリ

- デュアルチャンネル DDR をサポート。
- DDR333 / DDR400 をサポート。
- 最大メモリ容量 4GB、4 つの DIMM ソケットをサポート。

TForce 6100

CPU

- Socket 754 をサポート。
- AMD Athlon 64 プロセッサをサポート。
- AMD Athlon 64 ププロセッサに対応、最大 3700+。
- AMD Sempron プロセッサをサポート。
- ハイパートランスポートテクノロジに対応、最大 1600MHz。

サイズ

- ATX フォームファクタ: 24.4cm (長さ) x 21.86cm (幅)

システムメモリ

- DDR333 / DDR400 をサポート。
- 最大メモリ容量 2GB、2 つの DIMM ソケットをサポート。

スーパー I/O

- チップ: ITE IT8712F。
- 環境コントロールイニシアチブ、
  - H/W モニタ
  - ファン速度コントローラ
  - ITE「スマート・ガーディアン」機能

チップセット

- ノースブリッジ: NVIDIA Geforce6100。
- サウスブリッジ: NVIDIA nForce 410。

IDE

- 2 つのオンボードコネクタが 4 つのデバイスをサポート。
- PIO モード 0~4、ブロックモード、ウルトラ DMA 33/66/100/133 バス・マスターモードに対応。

シリアル ATA II

- nForce 410 シリアル ATA 2.0 仕様をサポート、最大 3GB/秒のデータ転送速度。

AC’97 オーディオ サウンド・コデック

- チップ: ALC655、6 チャンネルをサポート。

10/100 LAN PHY

- PHY: RTL8201BL/RTL8201CL, ACPI, PCI 電源管理をサポート。

サポートするオペレーティングシステム

- Windows 2000、Windows XP をサポート。
  注: *Windows 98SE と Windows ME では対応していません。*

内部オンボードスロットとコネクタ

- PCI-Express x1 スロット(x1)
- PCI-Express x16 スロット(x1)
- S/PDIF アウトコネクタ(x1)
- CD-ROM オーディオインコネクタ(x1)
- PCI スロット(x2)
- シリアル ATA II ポート(x2)。
- Ultra DMA 133/100/66/33 IDE コネクタ(x2)

背面パネル I/O コネクタ

- USB 2.0 ポート(x4)
- VGA ポート (x1)
- プリンター ポート (x1)
- シリアルポート(x1)
- RJ-45 LAN ジャック(x1)
- PS/2 マウスポート(x1)
- PS/2 キーボードポート(x1)
- ラインイン コネクタ 1 つ、ラインアウト コネクタ 1 つ、および MIC インコネクタを含む縦型オーディオ ポート 1 つ。

10/06, 2005