USER'S MANUAL
Of
NVIDIA
NF6100-400 / 405
Platform Processor Chipset

M/B For Socket AM2 64-bit Dual Core

AMD Processor

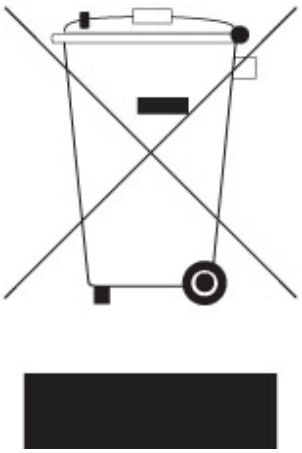
NO. G03-M26GTM-F
Rev:4.0

Release date: May 2007

TABLE OF CONTENT

Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. To minimize pollution and ensure environment protection of mother earth, please recycle.



Chapter 1

Introduction of NVIDIA NF6100-400/405 Motherboard Series

1-1 Features of motherboard

The NVIDIA NF6100-400 / 405 Platform Processor Chipset based motherboard series are based on the latest NVIDIA NF6100-400(MCP61V) / NVIDIA NF6100-405(MCP61S) Platform Processor Chipset which supports the innovative and supercharged new generation 64-bit AMD Socket AM2 Athlon64 and Sempron processors with HyperTransport Technology up to 1000MHz. NVIDIA NF6100-400 / 405 Platform Processor Chipset motherboard series deliver the outstanding system performance and professional desktop platform solution with the advantages of new generation 64-bit AMD Socket AM2 Athlon64 & Sempron processors with an integrated low-latency high-bandwidth DDRII memory controller and a highly-scalable HyperTransport technology-based system bus up to 1.0GHZ. By implementing the new generation NVIDIA NF6100-400 / 405 Platform Processor Chipset integrated graphic processor which adopts the innovative 90nm process technology, the GeForce 6100 Graphics Core integrated video graphics array brings more compatibility, stability and reliability with the widest range of games and applications to the desktop platform system. The motherboards support the stunning video playback in all formats and with superb picture clarity that brings the best visual experience and ultra-realistic effects to the users. NVIDIA NF6100-400 / 405 Platform Processor Chipset motherboard series are the real cost-effective and powerful integrated multimedia platform solutions and meet the demanding usage of computing now and future.

The motherboards incorporate the integrated NVIDIA GeForce 6100 Graphics Core which is fully compatible with Microsoft® DirectX® 9.0C and Shader Model 3.0. And it also supports 1000 MHz HyperTransport speed of data transfer rate, the motherboards support new generation Socket AM2 processors with an integrated DDRII memory controller which provides with 200MHz / 266MHz / 333MHz/ 400MHz memory clock frequency for Dual channel DDRII400/DDRII533/DDRII667/DDRII800(AM2 Sempron processor only supports up to DDRII667 memory) DDRII Module up to 4.0GB.(The 4-DIMM design motherboards are expandable to 8.0GB) .And NVIDIA it also accommodates ULTRA ATA 133 connectors and Serial ATA2 with RAID 0 and RAID1 functions which support up to two IDE and two Serial ATA2 devices to accelerate hard disk drives and guarantee the data security without failure in advanced computing performance.

The motherboards provide optional 10/100 LAN function with Realtek RTL8201CL 10/100 LAN PHY which supports 10/100Mbps data transfer rate(The 4-DIMM design motherboard integrated the Realtek RTL8101E or RTL8201CL 10/100 LAN chipset supporting 10/100Mbps data transfer rate). And the embedded optional Azalia 8-channel Audio CODEC is fully compatible with Sound Blaster Pro® standards that offer you with the home cinema quality and satisfying software compatibility. The optional embedded 6-channel AC' 97 Audio CODEC is fully compatible with Sound Blaster Pro® standard.

NVIDIA NF6100-405(MCP61S) PPC motherboard series offer one 8-LANE PCI-Express x16 graphics slot of 2Gbyte/sec data transfer rate at each relative direction which get 1.75 times of bandwidth more than AGP8X and it's up to a peak concurrent bandwidth of 4Gbyte/sec at full

speed to guarantee the performance and compatibility of GPU graphics add-in cards. And NVIDIA NF6100-400(MCP61V) PPC motherboard series offer one 1-LANE PCI-Express x16 graphics slot of 512Mbyte/sec concurrently to guarantee the compatibility of all PCI Express Interface compatible add-in cards. The whole series carry two 32-bit PCI slots guarantee the rich connectivity for the I/O peripheral devices. One PCI Express x1 I/O slot offers 512Mbyte/sec concurrently, over 3.5 times more bandwidth than PCI at 133Mbye/sec(only for 2-DIMM design motherboard).

Embedded USB controller as well as capability of expanding to 8 of USB2.0 functional ports delivering 480Mb/s bandwidth and rich connectivity, these motherboards meet the future USB demands which are also equipped with hardware monitor function on system to monitor and protect your system and maintain your non-stop business computing.
Some special features---***CPU Thermal Throttling/ CPU Vcore 7-shift/ CPU Smart Fan / / Optional BIOS BACK Function (Only for*** 4-DIMM design motherboard***)*** *in* this motherboard are designed for power user to use the over-clocking function in more flexible ways. But please be caution that the over-clocking maybe cause the fails in system reliabilities. This motherboard provides the guaranteed performance and meets the demands of the next generation computing. But if you insist to gain more system performance with variety possibilities of the components you choose, please be careful and make sure to read the detailed descriptions of these value added product features, please get them in the coming section.

1-1.1 Special Features of Motherboard

CPU Thermal Throttling Technology---(The CPU Overheat Protection Technology)
To prevent the increasing heat from damage of CPU or accidental shutdown while at high workload, the CPU Thermal Throttling Technology will force CPU to enter partially idle mode from 87.5% to 12.5% according to preset CPU operating temperature in BIOS (from 40℃ to 90℃). When the system senses the CPU operating temperature reaching the preset value, the CPU operating bandwidth will be decreased to the preset idle percentage to cool down the processor. When at throttling mode the beeper sound can be optionally selected to indicate it is in working.

CPU Smart Fan---(The Noise Management System)
It's never been a good idea to gain the performance of your system by sacrificing its acoustics. CPU Smart Fan Noise Management System is the answer to control the noise level needed for now-a-day's high performance computing system. The system will automatically increase the fan speed when CPU operating loading is high, after the CPU is in normal operating condition, the system will low down the fan speed for the silent operating environment. The system can provide the much longer life cycle for both CPU and the system fans for game use and business requirements.

CPU Vcore 7-Shift--- (Shift to Higher Performance)
The CPU voltage can be adjusted up by 7 steps for the precisely over-clocking of extra demanding computing performance.

BIOS BACK Function (Option)--- (The BIOS Backup and Recovery Function)
With the new support for the Serial Peripheral Interface, the whole motherboard series are embedded with the new storage of the extra bin file for BIOS recovery. When unexpected error occurs, even the BIOS crashes down, you can restore your BIOS with just simply clicking to restart your system. The backup bin file will recover automatically within a few minutes(Only For 4-DIMM design motherboard)

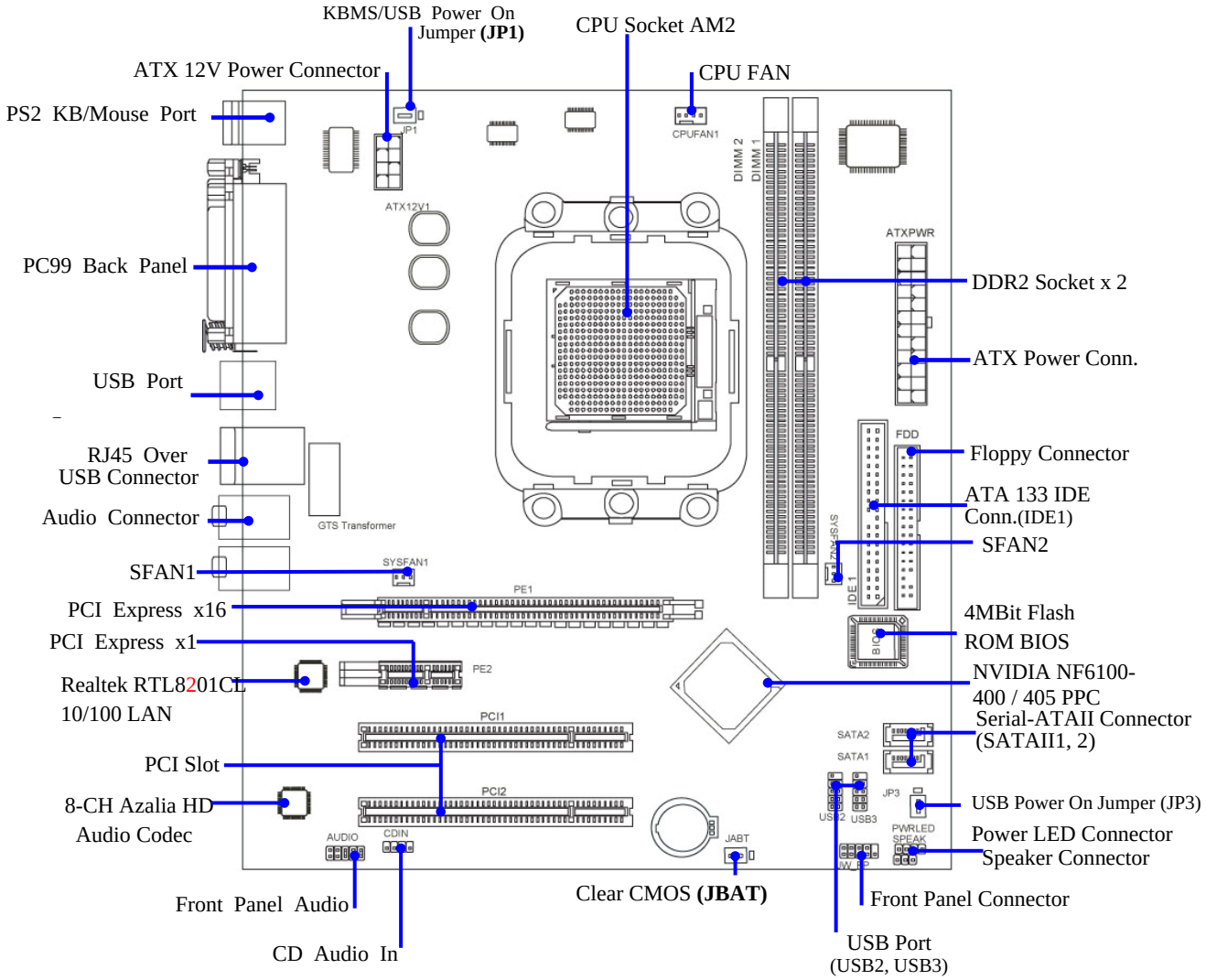
1-2 Specification

Spec	Description
Design	* Micro ATX form factor 4 layers PCB size: 244cm*220cm(for 2-DIMM design motherboard) * MicroATX form factor 4 layers PCB size: 244cm*210cm(for 4-DIMM design motherboard)
Chipset	* NVIDIA NF6100-400/405 Chipset
CPU Socket AM2	* Support 64bit AMD AM2 940-Pin package utilizes Flip-Chip Pin Grid Array package compatible processor * Support for HTT 1GHz AMD Athlon 64 X2 processor and Athlon 64, and HTT 800MHz Sempron Processors
Memory Socket	* 240-pin DDR2 Module socket x 4 (for 4-DIMM design motherboard) * 240-pin DDR2 Module socket x 2 (for 2-DIMM design motherboard) * Support 4 / 2 pcs DDR2 533 / DDR2 667 / DDR2 800 Modules Expandable to 8.0 / 4.0GB
Expansion Slot	* PCI-Express x16 slot 1pcs deliver up to 4GB/s concurrent bandwidth for NVIDIA NF6100-405 PPC motherboards * PCI-Express x16 slot 1pcs deliver up to 512MB/s concurrent bandwidth for NVIDIA NF6100-400 PPC motherboards * PCI-Express x1 slot 1pcs delivers up to 512MB/s concurrent bandwidth(for 2-DIMM design motherboard) * 32-bit PCI slot x 2pcs
Integrate IDE and Serial ATA2 RAID	* One IDE controllers support PCI Bus Mastering, ATA PIO/DMA and the ULTRA DMA 33/66/100/133 functions that deliver the data transfer rate up to 133 MB/s. * Two Serial ATA2 ports provide 300 MB/sec data transfer rate with RAID 0 and RAID 1 functions.
LAN	* Integrated Realtek RTL8201CL 10/100 LAN. (for 2-DIMM design motherboard) * Integrated Realtek RTL8101E 10/100 or RTL8201CL LAN (for 4-DIMM design motherboard) * Supports Fast Ethernet LAN function provide 10/100Mb /s data transfer rate
8-CH Audio(Optional)	* 8-channel Azalia High Definition Audio CODEC on board * Support 8-channel 3D surround & Positioning Audio * Audio driver and utility included
6-CH Audio(Optional)	* 6-channel AC 97' Audio CODEC on board * Audio driver and utility included
BIOS	* Award 4MB Flash ROM
Multi I/O	* PS/2 keyboard and PS/2 mouse connectors * Floppy disk drive connector x1 * Parallel port x1 * Serial port x1 * VGA port x1 * USB2.0 port x 4 and headers x 4 (connecting cable option) * Audio connector (Line-in, Line-out, MIC/ 8CH Audio)

1-3 Item Checklist

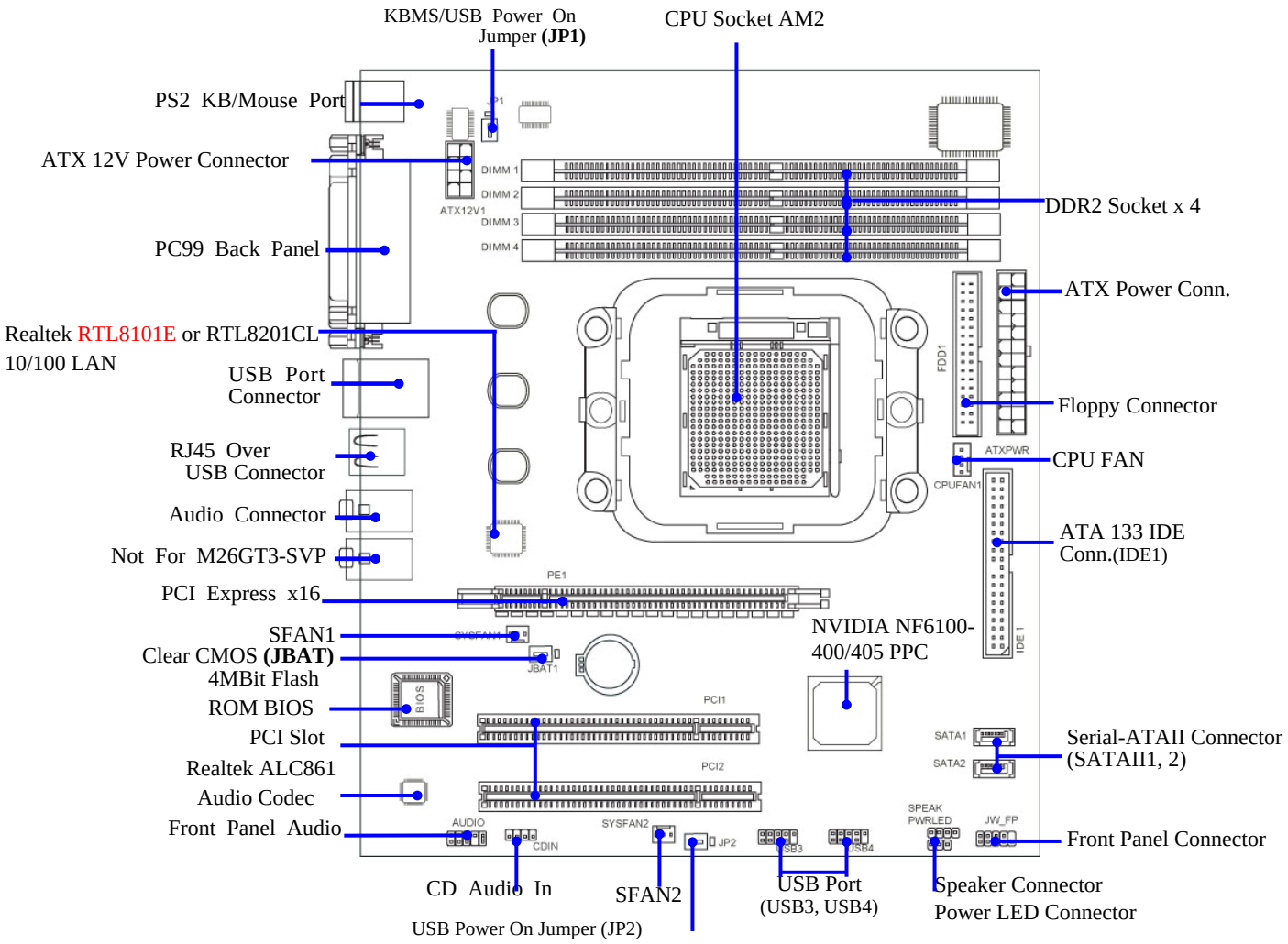
- ☑ NVIDIA NF6100-400 / 405 Platform Processor Chipset based motherboard
- ☑ Cable for IDE
- ☑ CD for motherboard utilities
- ☑ Cable for Serial ATA IDE Port
- ☑ NVIDIA NF6100-400 / 405 Platform Processor Chipset motherboard User's Manual

1-4 Layout Diagram & Jumper Setting for 2-DIMM Design Motherboard



1-5 Layout Diagram & Jumper Setting For 4-DIMM Design Motherboard

The M26GT3 series designed with 4-DIMM and optional BIOS BACK function can offer you better usage of computing performance for gaming, multimedia entertainment and business applications of today and future.



Chapter 2
Hardware Installation

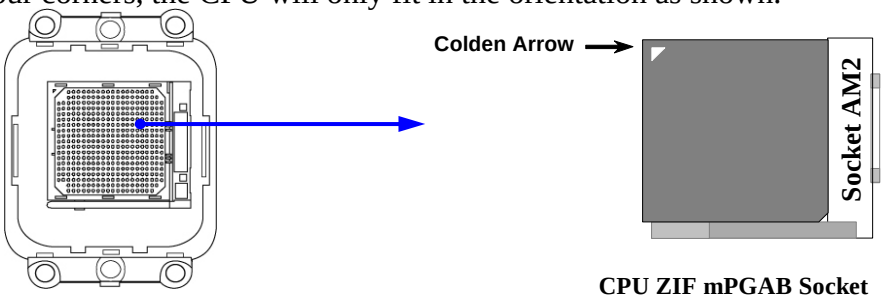
2-1 Install Socket AM2 Supported AMD Processor

This motherboard provides a 940-pin surface mount, Zero Insertion Force (ZIF) socket, referred to as the mPGA940 socket supports AMD Athlon64 processor in the 940 Pin package utilizes Flip-Chip Pin Grid Array package technology.

The CPU that comes with the motherboard should have a cooling FAN attached to prevent overheating. If this is not the case, then purchase a correct cooling FAN before you turn on your system.

WARNING!	Be sure that there is sufficient air circulation across the processor's heatsink and CPU cooling FAN is working correctly, otherwise it may cause the processor and motherboard overheat and damage, you may install an auxiliary cooling FAN, if necessary.

To install a CPU, first turn off your system and remove its cover. Locate the ZIF socket and open it by first pulling the level sideways away from the socket then upward to a 90-degree angle. Insert the CPU with the correct orientation as shown below. The notched corner should point toward the end of the level. Because the CPU has a corner pin for two of the four corners, the CPU will only fit in the orientation as shown.



CPU ZIF mPGAB Socket

When you put the CPU into the ZIF socket. No force require to insert of the CPU, then press the level to Locate position slightly without any extra force.

2-2 Install Memory

The motherboards provide four / two 240-pin DDRII DUAL INLINE MEMORY MODULES (DIMM) sites for DDRII memory expansion available from minimum memory size of 128MB to maximum memory size of 8.0GB / 4.0GB DDRII SDRAM.

Valid Memory Configurations of 2-DIMM Design Motherboard

Bank	240-Pin DIMM	PCS	Total Memory
Bank 0, 1 (DIMM1)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Bank 2, 3 (DIMM2)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Total	System Memory (Max. 4.0GB)	2	128MB~4.0GB

Valid Memory Configurations of 4-DIMM Design Motherboard

Bank	240-Pin DIMM	PCS	Total Memory
Bank 0, 1 (DIMM1)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Bank 2, 3 (DIMM2)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Bank 4, 5 (DIMM3)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Bank 6,7 (DIMM4)	DDRII400/DDRII533/DDRII667/DDRII800	X1	128MB~2.0GB
Total	System Memory (Max. 8.0GB)	4	128MB~8.0GB

Recommend DIMM Module Combination

1. ***One DIMM Module ----Plug in DIMM1***
2. ***Two DIMM Modules---Plug in DIMM1 and DIMM2 for Dual channel function of 4-DIMM Design motherboard and Plug in DIMM1 and DIMM2 for Dual channel function of 2-DIMM Design motherboard.***
3. ***Four DIMM Modules---Plug in DIMM1/DIMM2/DIMM3/DIMM4.***

For Dual channel Limited!

1. Dual channel function only supports when 2 DIMM Modules plug in either both DIMM1 & DIMM2 or DIMM3 &DIMM4, or four DIMM Modules plug in DIMM1~DIMM4 of 4-DIMM motherboard and 2 DIMM Modules plug in DIMM1 & DIMM2 of 2-DIMM Motherboard.
2. DIMM1 & DIMM2, or DIMM3 & DIMM4 of 4-DIMM motherboard, and DIMM1 & DIMM2 of 2-DIMM motherboard must be the same type, same size, and same frequency for dual channel function.

Generally, installing DDR SDRAM modules to your motherboard is very easy, you can refer to figure 2-4 to see what a 240-Pin DDR2 400 / 533 / 667 / 800 SDRAM module looks like.

DIMM1 & DIMM2: Dual Channel 1

DIMM3 & DIMM4: Dual Channel 2

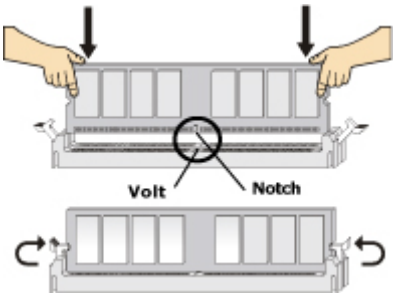
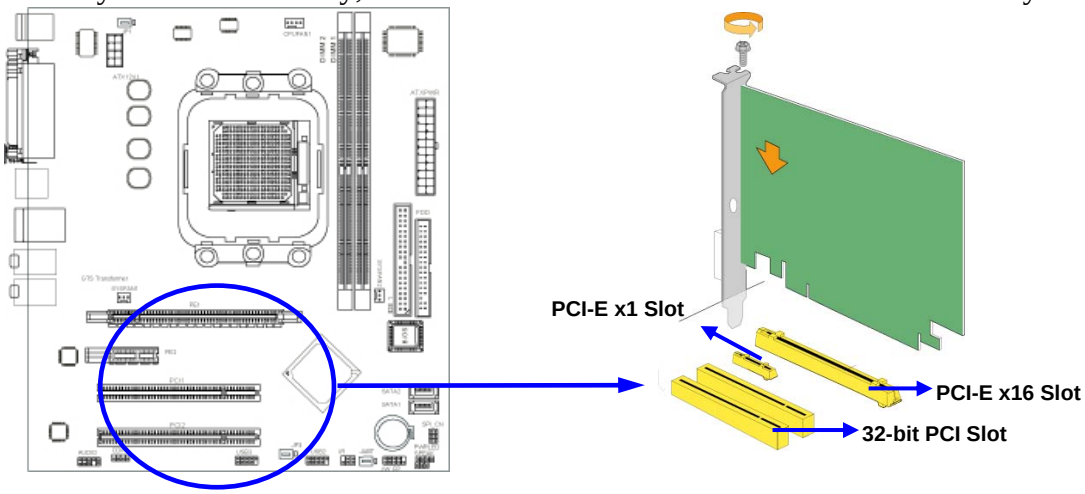


Figure 2-4

NOTE! When you install DIMM module fully into the DIMM socket the eject tab should be locked into the DIMM module very firmly and fit into its indention on both sides.

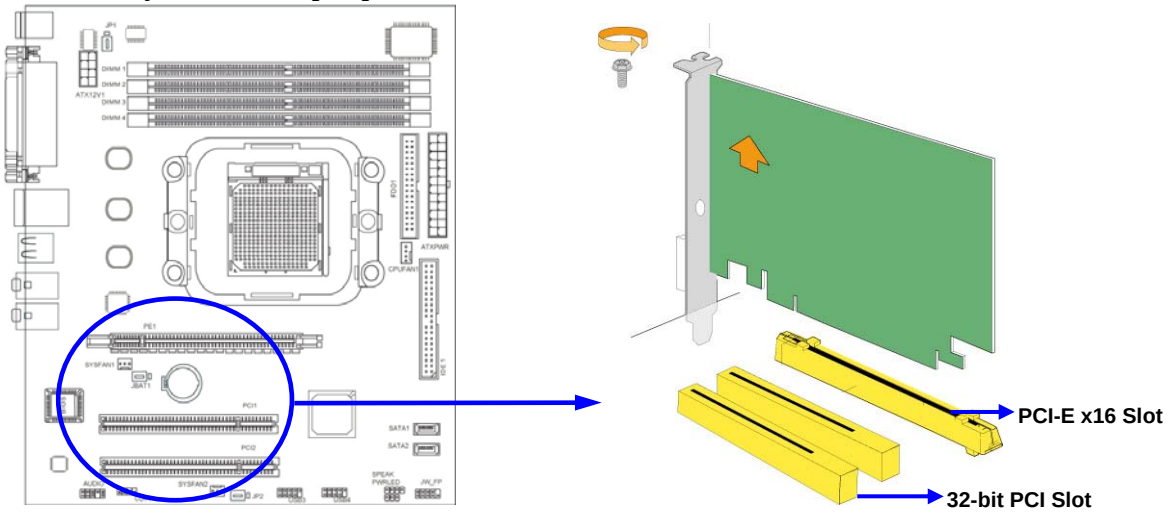
2-3 Expansion Cards For 2-DIMM Design Motherboard

NVIDIA NF6100-405(MCP61S) PPC motherboard series offer one 8-LANE PCI-Express x16 graphics slot of 2Gbyte/sec data transfer rate at each relative direction which get 1.75 times of bandwidth more than AGP8X and it's up to a peak concurrent bandwidth of 4Gbyte/sec at full speed to guarantee the performance and compatibility of GPU graphics add-in cards. And NVIDIA NF6100-400(MCP61V) PPC motherboard series offer one 1-LANE PCI-Express x16 graphics slot of 512Mbyte/sec concurrently to guarantee the compatibility of all PCI Express Interface compatible add-in cards. The whole series carry two 32-bit PCI slots guarantee the rich connectivity for the I/O peripheral devices. One PCI Express x1 I/O slot offers 512Mbyte/sec concurrently, over 3.5 times more bandwidth than PCI at 133Mbye/sec.



2-4 Expansion Cards For4-DIMM Design Motherboard

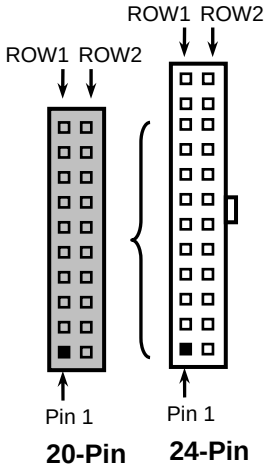
NVIDIA NF6100-405(MCP61S) PPC motherboard series offer one 8-LANE PCI-Express x16 graphics slot of 2Gbyte/sec data transfer rate at each relative direction which get 1.75 times of bandwidth more than AGP8X and it's up to a peak concurrent bandwidth of 4Gbyte/sec at full speed to guarantee the performance and compatibility of GPU graphics add-in cards.NVIDIA NF6100-400(MCP61V) PPC motherboard series offer one 1-LANE PCI-Express x16 graphics slot of 512Mbyte/sec concurrently to guarantee the compatibility of all PCI Express Interface compatible add-in cards. The whole series carry two 32-bit PCI slots guarantee the rich connectivity for the I/O peripheral devices.



Chapter 3
Connectors, Headers & Jumpers Setting
3-1 Connectors

(1) Power Connector (24-pin block) : ATXPWR1

ATX Power Supply connector. This is a new defined 24-pins connector that usually comes with ATX case. The ATX Power Supply allows to use soft power on momentary switch that connect from the front panel switch to 2-pins Power On jumper pole on the motherboard. When the power switch on the back of the ATX power supply turned on, the full power will not come into the system board until the front panel switch is momentarily pressed. Press this switch again will turn off the power to the system board.



PIN	ROW1	ROW2
1	3.3V	3.3V
2	3.3V	-12V
3	GND	GND
4	5V	Soft Power On
5	GND	GND
6	5V	GND
7	GND	GND
8	Power OK	-5V
9	+5V (for Soft Logic)	+5V
10	+12V	+5V
11	+12V	+5V
12	+3V	GND

** We recommend that you use an ATX 12V Specification 2.0-compliant power supply unit (PSU) with a minimum of 350W power rating. This type has 24-pin and 4-pin power plugs.

** If you intend to use a PSU with 20-pin and 4-pin power plugs, make sure that the 20-pin power plug can provide at least 15A on +12V and the power supply unit has a minimum power rating of 350W. The system may become unstable or may not boot up if the power is inadequate.

(2) ATX 12V Power Connector (8-pin block) : ATX12V1

This is a new defined 8-pins connector that usually comes with ATX Power Supply. The ATX Power Supply which fully support AM2 processor must including this connector for support extra 12V voltage to maintain system power consumption. Without this connector might cause system unstable because the power supply can not provide sufficient current for system.

(3) PS/2 Mouse & PS/2 Keyboard Connector: KB1

The connectors for PS/2 keyboard and PS/2 Mouse.

(4) USB Port connector: CN3

The connectors are 4-pin connector that connect USB devices to the system board.

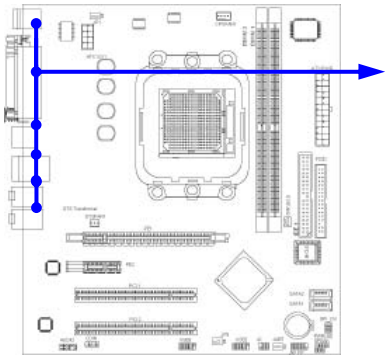
(5) LAN Port connector: UL1

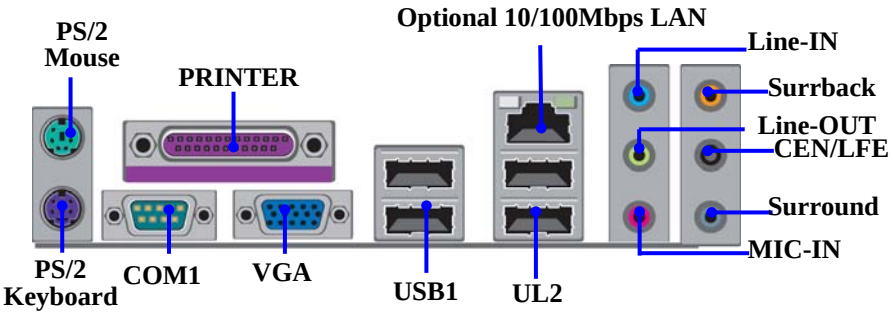
This connector is standard RJ45 connector for Network
The USBLAN1 support 10M/100Mb/1000Mb s data transfer rate

(6) Audio Line-In, Lin-Out, MIC, Surrback, Surround, CEN/LEF Connector : SURROUND1 / CN1 （Optional）

This Connector are 6 phone Jack for LINE-OUT, LINE-IN, MIC, Surrback, Surround, CEN/LEF

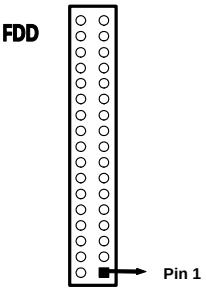
Line-in : **(BLUE)** Audio input to sound chip
Line-out : **(GREEN)** Audio output to speaker
MIC : **(PINK)** Microphone Connector
Surrback : **(ORANGE)** Audio output to speaker-Rear speaker out
CEN/LEF : **(BLACKNESS)** Audio output to speaker-Center/Subwoofer speaker out
Surround: (GRAY) Audio output to speaker-Side speaker out





(7) Floppy drive Connector (34-pin block): FDD1

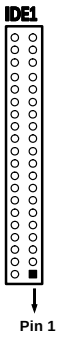
This connector supports the provided floppy drive ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to the floppy drives.



Floppy Drive Connector

(8) Secondary IDE Connector (40-pin block): IDE1

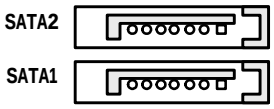
This connector connects to the next set of Master and Slave hard disks. Follow the same procedure described for the primary IDE connector. You may also configure two hard disks to be both Masters using one ribbon cable on the primary IDE connector and another ribbon cable on the secondary IDE connector.



Primary IDE Connector

- Two hard disks can be connected to each connector. The first HDD is referred to as the "Master" and the second HDD is referred to as the "Slave".
- For performance issues, we strongly suggest you don't install a CD-ROM or DVD-ROM drive on the same IDE channel as a hard disk. Otherwise, the system performance on this channel may drop.

(9) Serial-ATA Port connector:
SATA1 / SATA2



Serial-ATA1 & 2 Compatible Connectors

This connector support the provided Serial ATA and Serial ATA2 IDE hard disk cable to connecting the motherboard and serial ATA hard disk.

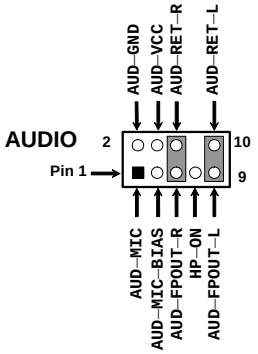
(10) D-Sub 15-pin Connector: VGA

VGA is the 15-pin D-Subminiature female connector, it is for the display devices, such as the CRT monitor, LCD monitor and so on.

3-2 Headers

(1) Line-Out/MIC Header for Front Panel (9-pin): AUDIO1

This header connect to Front Panel Line-out, MIC connector with cable. Without install the cable, this header default setting is 5-6 short, 9-10 short. When you install the cable you have take off these jumpers.

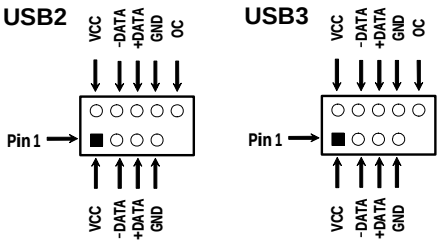


Line-Out, MIC Headers

(2) USB Port Headers (9-pin) :

USB2(USB4) / USB3

These headers are used for connecting the additional USB port plug. By attaching an option USB cable, your can be provided with two additional USB plugs affixed to the back panel.



USB Port Headers

(3) Speaker connector: SPEAK1

This 4-pin connector connects to the case-mounted speaker. See the figure below.

(4) Power LED: PWR LED1

The Power LED is light on while the system power is on. Connect the Power LED from the system case to this pin.

(5) IDE Activity LED: HD LED

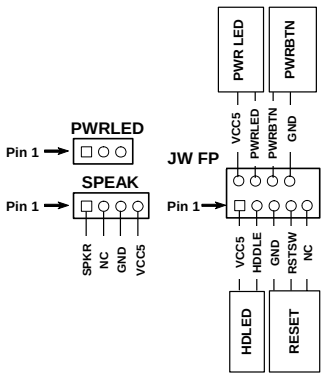
This connector connects to the hard disk activity indicator light on the case.

(6) Reset switch lead: RESET

This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the lift of the system's power supply. See the figure below.

(7) Power switch: PWR BTN

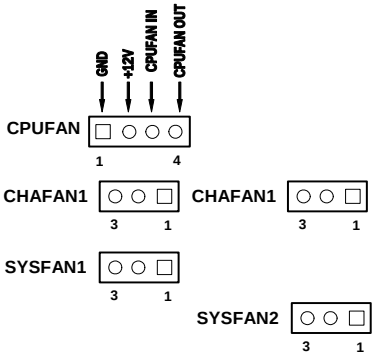
This 2-pin connector connects to the case-mounted power switch to power ON/OFF the system.



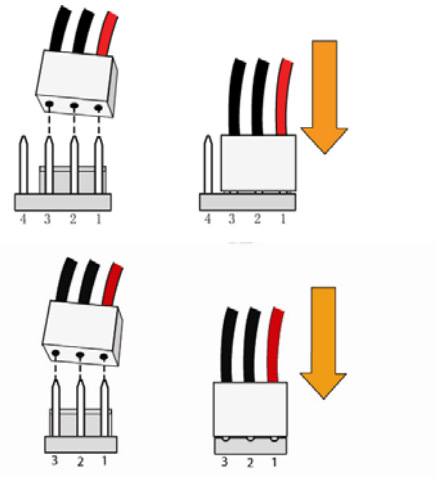
System Case Connections

(8) FAN Power Headers: CHAFAN1, CHAFAN2 / SYSFAN1, SYSFAN2 (3-pin), CPUFAN (4-pin)

These connectors support cooling fans of 350mA (4.2 Watts) or less, depending on the fan manufacturer, the wire and plug may be different. The red wire should be positive, while the black should be ground. Connect the fan's plug to the board taking into consideration the polarity of connector.

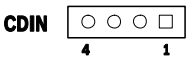


FAN Power Headers



(9) CD Audio-In Headers (4-pin) : CDIN

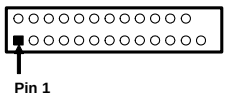
CDIN are the connectors for CD-Audio Input signal. Please connect it to CD-ROM CD-Audio output connector.



CD Audio-In Headers

(10) Parallel Port Connector (25-pin female): PARALLEL1

The On-board Parallel Port can be disabled through the BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information.



PARALLEL Connector

Chapter 4

USEFUL HELP

4-1 HOW TO UPDATE BIOS

Before updating the BIOS, users have to "Disable" the "Flash Part Write Protect" selection in "Miscellaneous Control" of BIOS SETUP. Otherwise the system the will not allow you to upgrade BIOS by Award Flash Utility.

STEP 1. Prepare a boot disc. (you may make one by click START click RUN type SYS A:click OK)

STEP 2. Copy utility program to your boot disc. You may copy from DRIVER CD X:\FLASH\AWDFLASH.EXE or download from our web site.

STEP 3. Download and make a copy of the latest BIOS for NF6100-400/405 PPC motherboard series from the web site to your boot disc.

STEP 4. Insert your boot disc into A:,
start the computer, type "Awdflash A:\ NF6100-400/405.BIN /SN/PY/CC/R"
NF6100-400/405 xxx.BIN is the file name of latest BIOS it can be NF6100-400/405.BIN or NF6100-400/405.BIN

SN means don't save existing BIOS data
PY means renew existing BIOS data
CC means clear existing CMOS data
R means restart computer

STEP 5. Push ENTER to update and flash the BIOS, then the system will restart automatically.

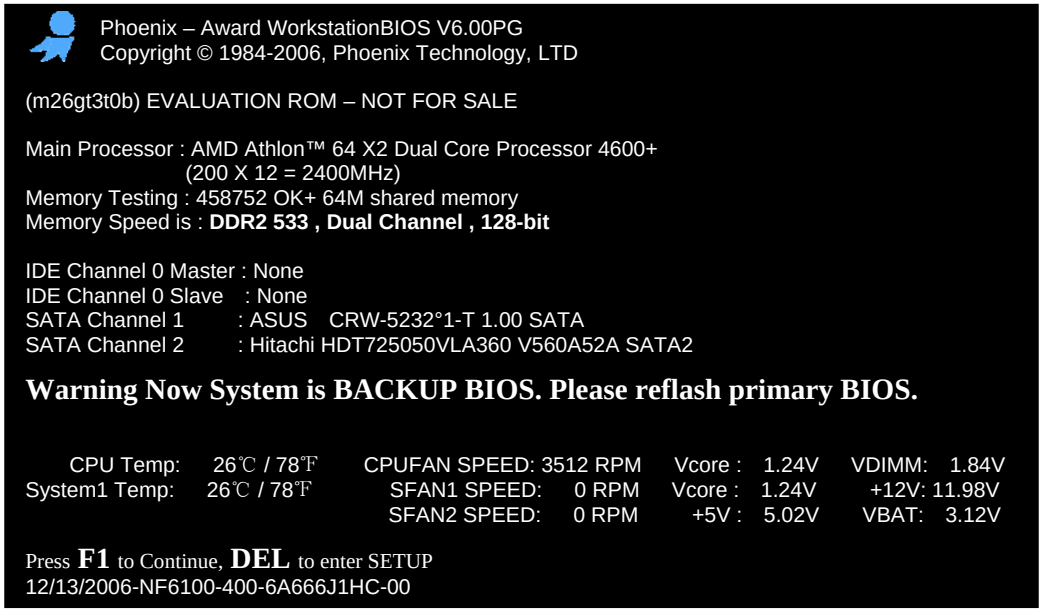
4-2 Trouble Shooting

Problem	**Solution**
No power to the system to the all power light don't illuminate, fan inside power supply doesn't turn on.	1. Make sure power cable is security 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 ever pressure on both ends of the DIMM , press down firmly until the module snaps into places.
System doesn't 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 date and applications files. 2. Reformat the hard drive. Reinstall applications and date using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure"	Review system 's equipment .Make sure correct information on is in setup.
Can not 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 manufacture for compatibility with other drives.

4-3 The Introduction of BIOS BACK Function(Only for 4-DIMM Design Motherboard)

Advanced BIOS Back & Recovery Function

"BIOS Back" function is automatically activated when the original BIOS malfunction occurs. When it occurs to BIOS malfunction, the BIOS BACK function will be activated automatically, then the system will restart to reload the BIOS backup to the system boot up menu as the following figure. It takes 4 to 8 seconds to get into the boot up menu and here comes the message, "Warning! Now System is BACKUP BIOS. Please reflash primary BIOS." after system reboots. And then, please follow the OSD to press "F1" button to continue to log on your operation system.



Please make sure to Update the BIOS after getting into operation system, or the BIOS BACK function will check your primary BIOS status every time, and it may cause your inconvenience to.