NFII ULTRA-AL
NFII ULTRA-A

Rev. A+

System Board User's Manual
Carte Mère Manuel Pour Utilisateur
System-Platine Benutzerhandbuch
Manual del Usuario de Placas Base
Ðóêî âî äñòâî Ï î ëüçî âàòåëÿ

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74310336

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Caution

To avoid damage to the system:
• Use the correct AC input voltage range.

To reduce the risk of electric shock:
• Unplug the power cord before removing the system chassis cover for installation or servicing. After installation or servicing, cover the system chassis before plugging the power cord.

Battery:
- Danger of explosion if battery incorrectly replaced.
- Replace only with the same or equivalent type recommend by the manufacturer.
- Dispose of used batteries according to the battery manufacturer's instructions.

Joystick or MIDI port:
- Do not use any joystick or MIDI device that requires more than 10A current at 5V DC. There is a risk of fire for devices that exceed this limit.

FCC and DOC Statement on Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. Shielded interface cables must be used in order to comply with the emission limits.

Table of Contents

The user's manual in the provided CD contains detailed information about the system board. If, in some cases, some information doesn't match those shown in this manual, this manual should always be regarded as the most updated version.

Le manuel d'utilisateur dans le CD muni contient renseignement détaillé au sujet de carte de système. Si, en quelque cas, quelque renseignement n'appareille de ce que dit dans ce manuel, ce manuel doit toujours être considéré comme la plus nouvelle version.

Das Benutzerhandbuch in der angebotenen CD enthält detaillierte Informationen über die Hauptplatine. Wenn in manchen Fällen manche Informationen nicht denjenigen Informationen dargestellt in diesem Handbuch entsprechen, soll dieses Handbuch als die meist aktualisierte Ausgabe gelten.

El uso explicativo contene información detalle sobre la sistema board en el CD preparativo. Si en algún caso, la información no es igual con el uso explicativo, necesita ver el uso explicativo, esque es más nuevo.

 ðóêî âî äñòâå ïî ëüçî âàòåëÿ íà ïðåäî ñòàâëÿì î ì CD äèñêå ñî äåðæèòñÿ ïî äðî áíàÿ èíôî ðì àöèÿ î ì àòåðèíñêî é ïëàòå. Èí î ãäà íàï å÷àòàí í î å ðóêî âî äñòâî ì î æåò íå ñî âïàäàòü ðóêî âî äñòâî ì íà CD, òàê êàê ïî ñëåäíåå íàèáî ëåå ÷àñòî î áíî âëÿåòñÿ è ÿâëÿåòñÿ ñàì ûì ñâåæèì .
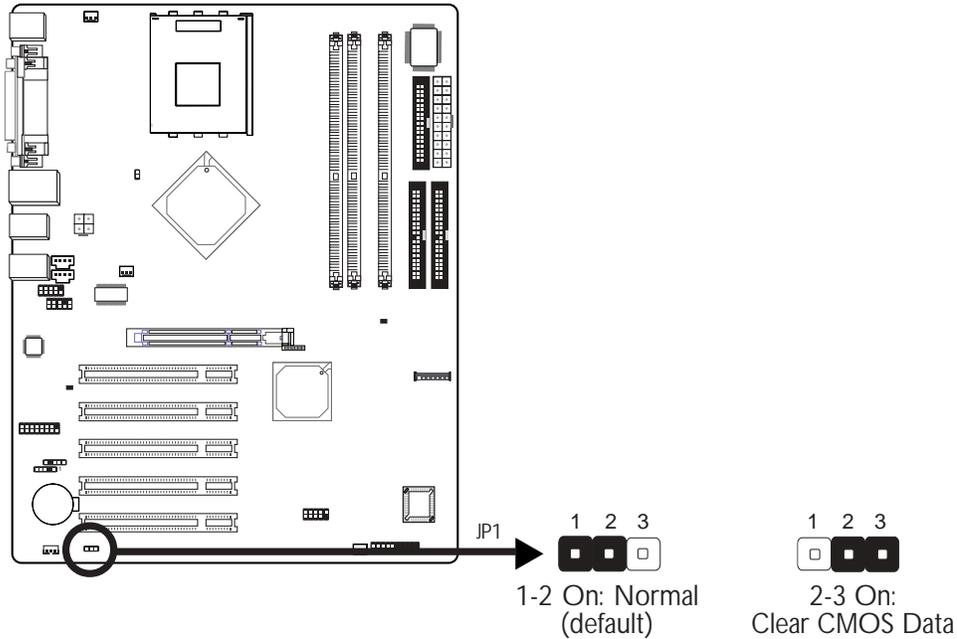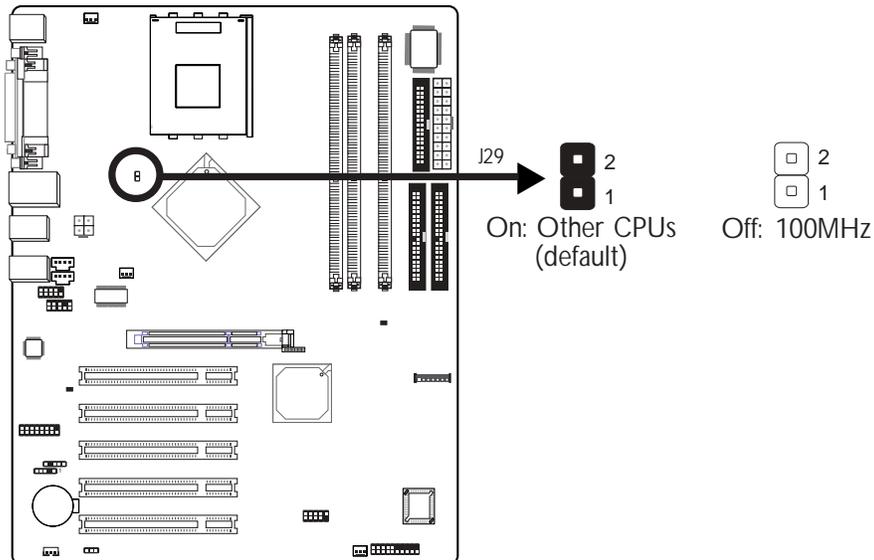
1.1 System Board Layout
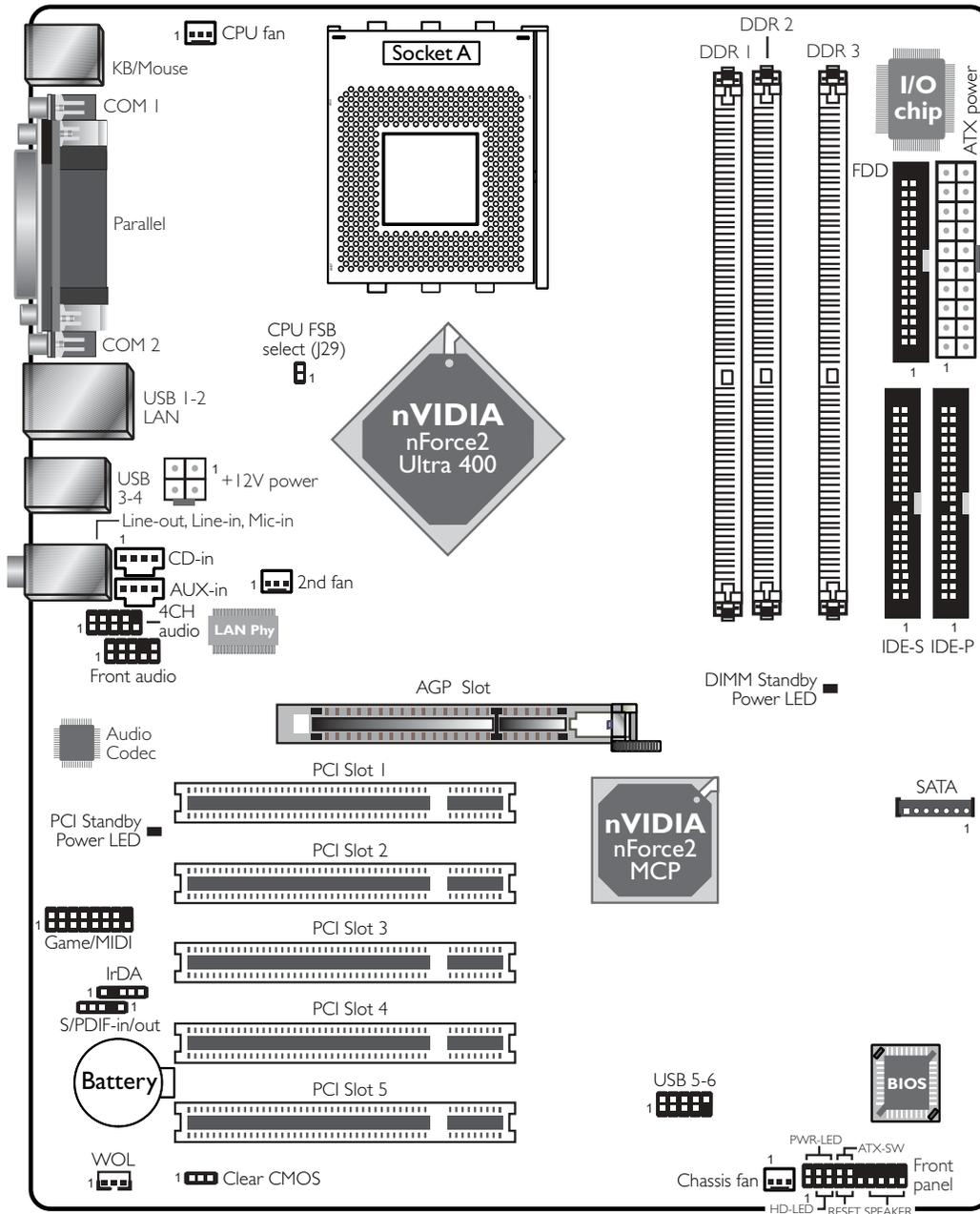
The NFII ULTRA-AL system board (shown above) supports onboard LAN. NFII ULTRA-A does not support onboard LAN. The illustrations on the following pages are based on the system board that supports onboard LAN.

5

1.2 Jumpers

1.2.1 Clear CMOS Data

JP1

1 2 3

1-2 On: Normal
(default)

1 2 3

2-3 On:
Clear CMOS Data

1.2.2 CPU FSB Select

J29

2
1

On: Other CPUs
(default)

2
1

Off: 100MHz

Warning:

To ensure proper boot up and operation of your system, you must power-off the system then turn off the power supply's switch or un-plug the AC power cord prior to altering the setting of the jumper.

6

1.3 Rear Panel I/O Ports

PS/2
Mouse

Parallel

RJ45
LAN

USB 4

Mic-in

Line-in

Line-out

PS/2
K/B

COM 1

COM 2

USB 1-2

USB 3
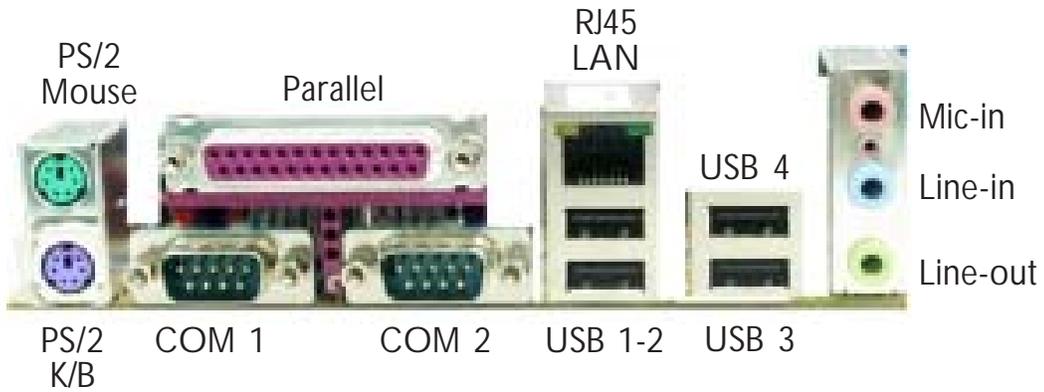
The LAN port is present only on the NFII ULTRA-AL system board.

1.4 I/O Connectors

1.4.1   Game/MIDI Connector

2

1   15

7
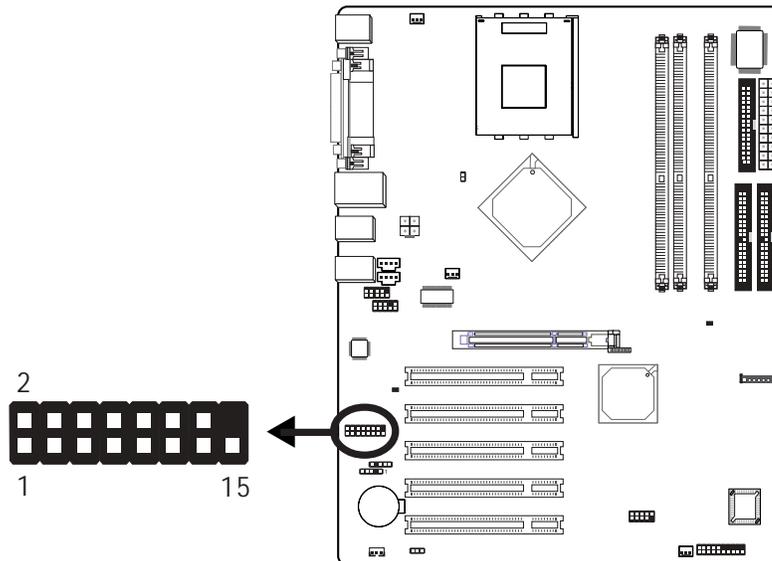
1.4.2   CD-in, AUX-in and S/PDIF Connectors

Ground — Ground

Left audio channel | Right audio channel

1   4

CD-in

Ground — Ground

Left audio channel | Right audio channel

1   4

AUX-in

SPDIF out
GND | Key
SPDIF in | +5V

5   1

S/PDIF
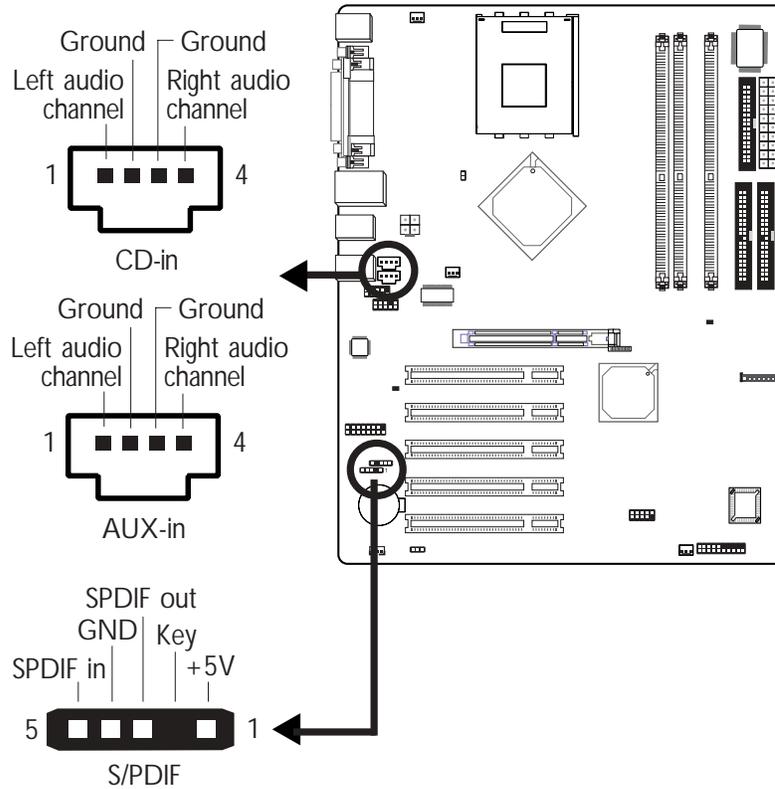
1.4.3   Serial ATA IDE Connector

7   1

GND RXP RXN GND TXN TXP GND
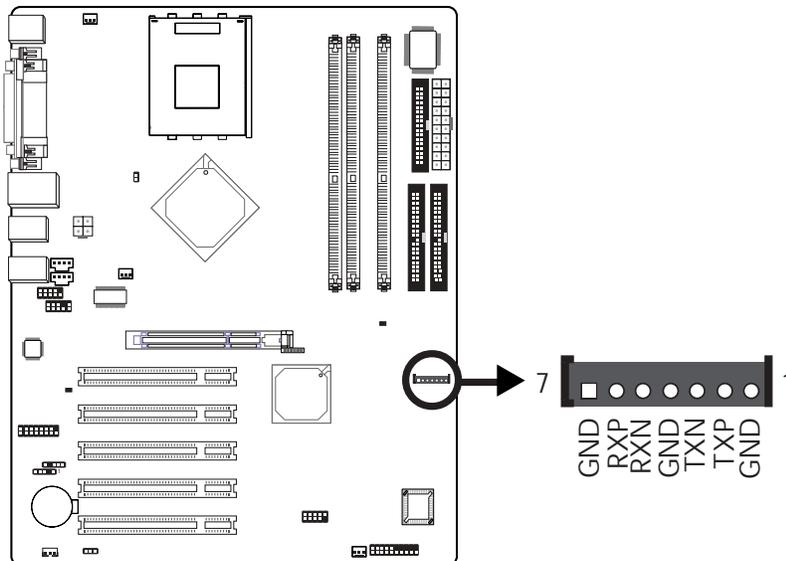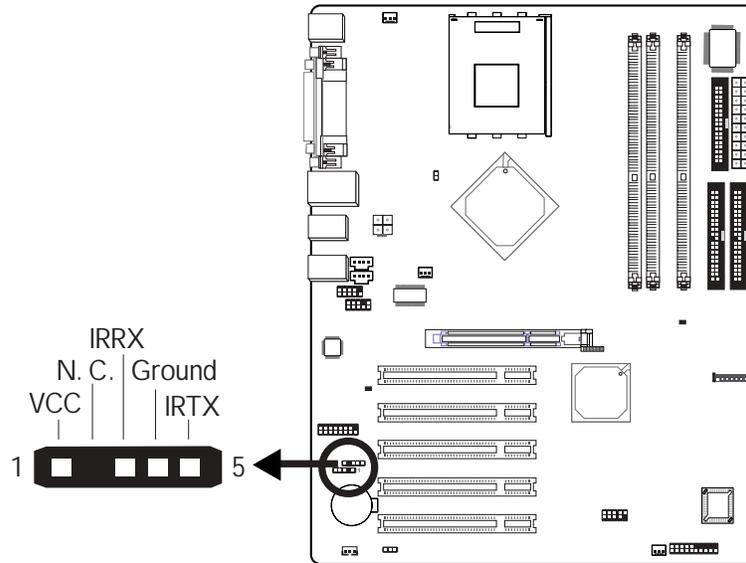
1.4.4 IrDA Connector

> **Note:**
> *The sequence of the pin functions on some IrDA cable may be reversed from the pin function defined on the system board. Make sure to connect the cable to the IrDA connector according to their pin functions.*

1.4.5 FDD and IDE Disk Drive Connectors
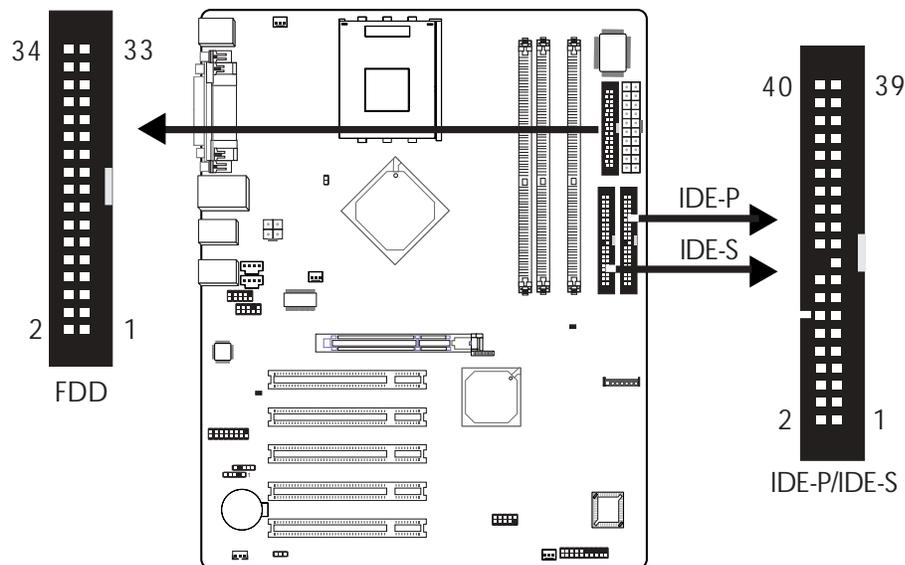
1.4.6   Cooling Fan Connectors

```
      +12V
Ground | Sense

 1  [ ▪▪▪ ]  3

   CPU fan
```

```
       +12V
Ground | Ground

 1  [ ▪▪▪ ]  3

   2nd fan
```

```
     +12V
  On | Sense

 1  [ ▪▪▪ ]  3

  Chassis fan
```
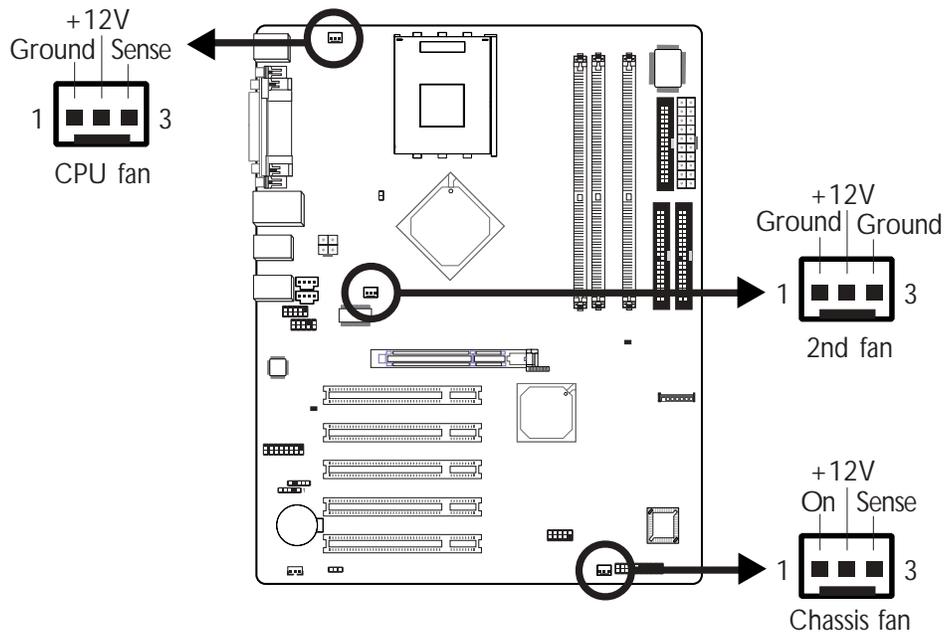
1.4.7   Wake-On-LAN Connector

```
   Ground
WOL | +5VSB

 1 [ ▪▪▪ ]  3
```
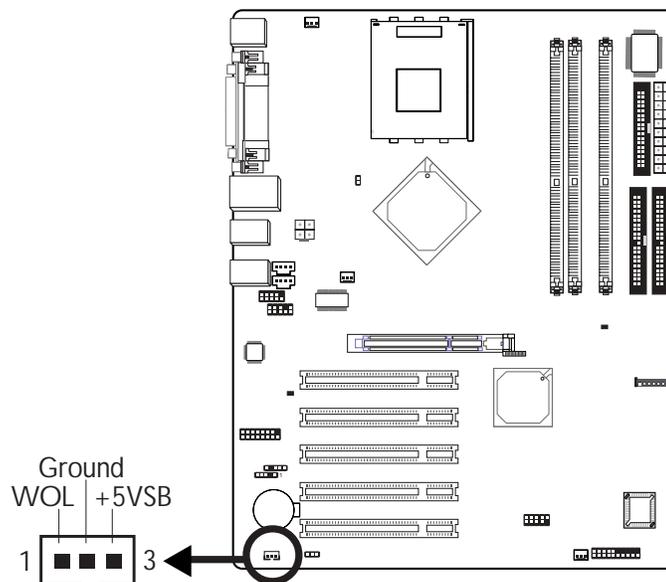
Important:
The 5VSB power source of your power supply must support ≥720mA.

10

1.4.8   LEDs

DIMM Standby Power LED

PCI Standby Power LED

1.4.9   Power Connectors

10 20		
+12V	• •	+5V
5VSB	• •	+5V
PW-OK	• •	-5V
Ground	• •	Ground
+5V	• •	Ground
Ground	• •	Ground
+5V	• •	PS-ON
Ground	• •	Ground
3.3V	• •	-12V
3.3V	• •	3.3V
1 11		

2 1

Ground	• •	Ground
+12V	• •	+12V

4 3
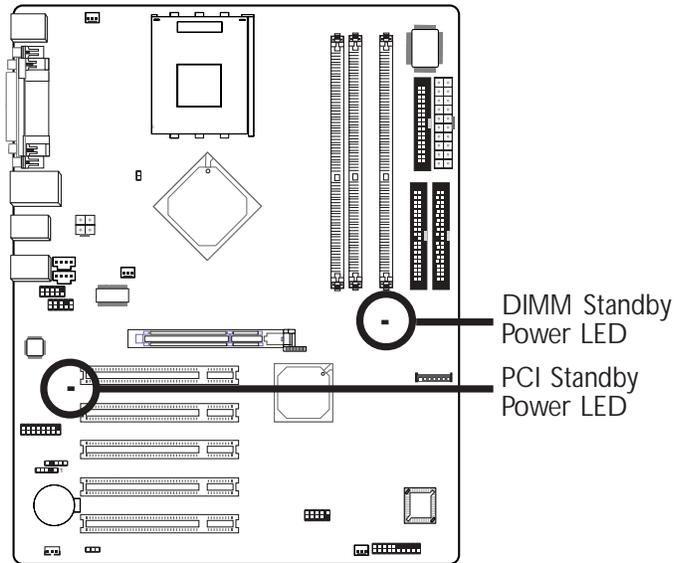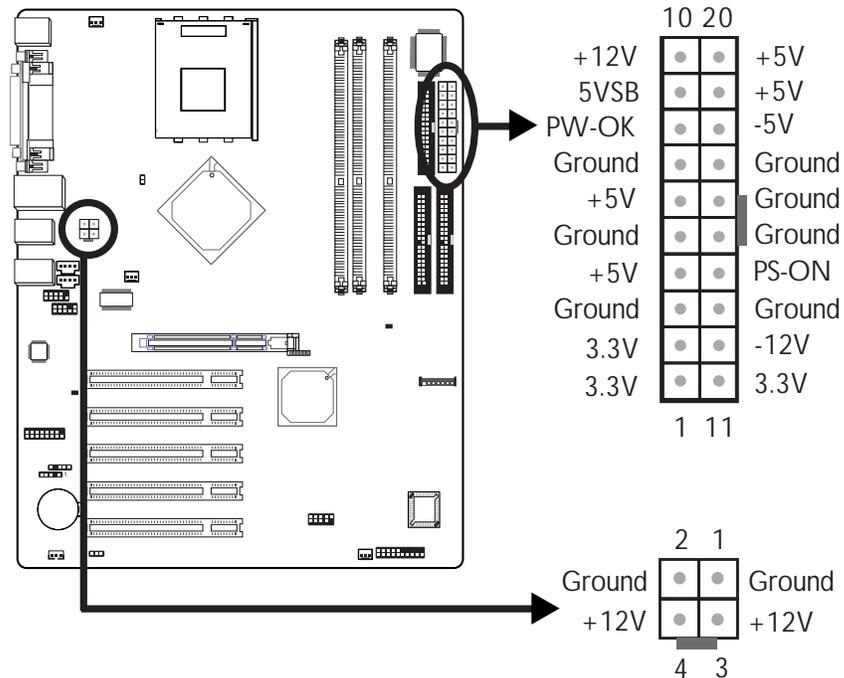
Important:
The system board requires a minimum of 300 Watt power supply to operate. Your system configuration (amount of memory, add-in cards, peripherals, etc.) may exceed the minimum power requirement. To ensure that adequate power is provided, use a 300 Watt (or greater) power supply.

11

1.4.10   USB Connectors

USB 2
USB 1

USB 4
USB 3

USB 5-6

VCC
-Data
+Data
Ground
N.C.

2 ▪▪▪▪▪ 10
1 ▪▪▪▪▪ 9

VCC
-Data
+Data
Ground
Key
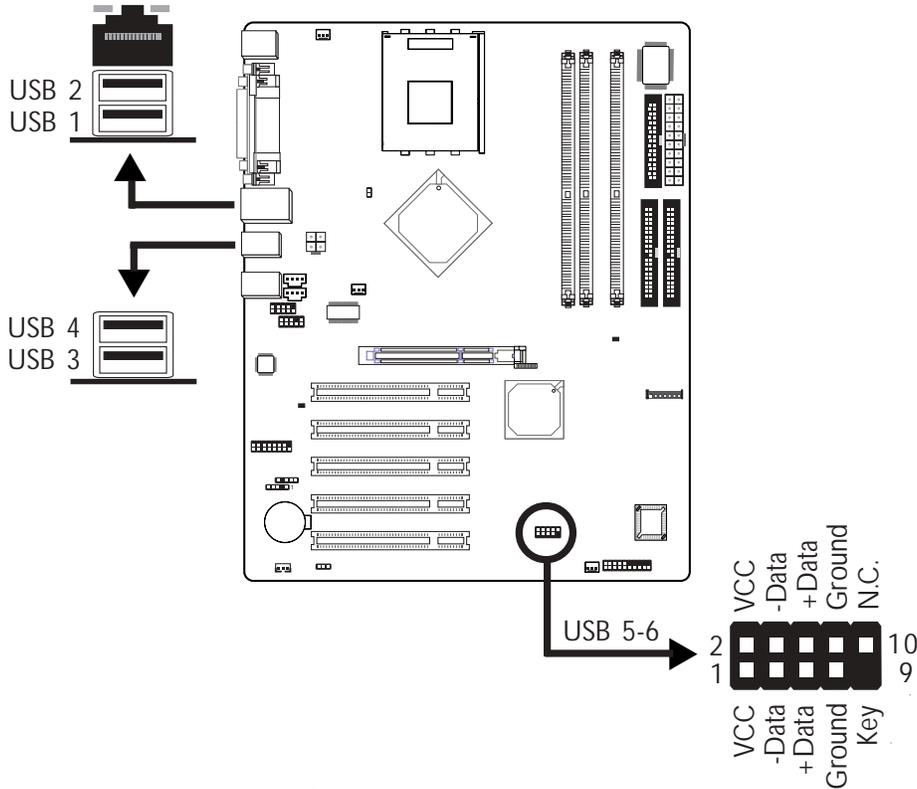
1.4.11   Front Panel Connectors

ATX-SW

PWR-LED

2 ▪▪▪▪▪▪▪▪▪▪ 20
1 ▪▪▪▪▪▪▪▪▪▪ 19

HD-LED   SPEAKER
        RESET
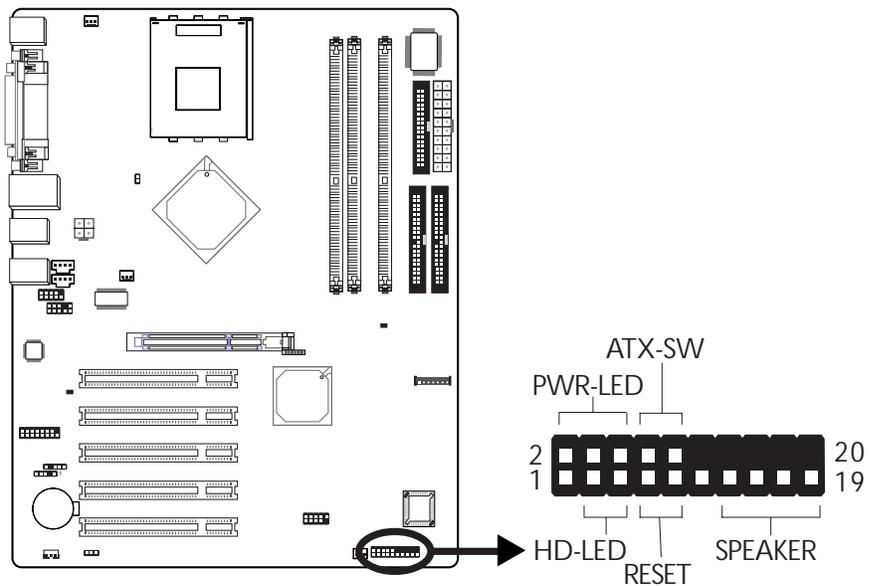
Note:

If a system did not boot-up and the Power/Standby LED did not light after it was powered-on, it may indicate that the CPU or memory module was not installed properly. Please make sure they are properly inserted into their corresponding socket.

2.1 Features and Specifications

Processor
- AMD Athlon™ XP 266/333/400MHz FSB
- AMD Athlon™ 200/266MHz FSB

Chipset
- NVIDIA® nForce2 chipset
  - North bridge: nForce2 Ultra 400
  - South bridge: nForce2 MCP

System Memory
- Supports dual channel memory interface
- Supports up to 3GB memory (unbuffered DIMM)
- Uses PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) or PC 3200 (DDR 400) DDR SDRAM DIMM, 2.5V type
- Three 184-pin DDR SDRAM DIMM sockets
- L2 cache memory
  - Athlon™ XP / Athlon™ processor: built-in 256KB Level 2 pipelined burst cache

BIOS
- Award BIOS, Windows® 95/98/2000/ME/XP Plug and Play compatible
- Genie BIOS provides:
  - CPU/DRAM overclocking
  - CPU/AGP/DRAM/Chipset overvoltage
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- 4Mbit flash memory

Energy Efficient Design
- ACPI STR (Suspend to RAM) function
- Wake-On-PS/2 Keyboard/Mouse
- Wake-On-USB Keyboard/Mouse
- Wake-On-Ring (external modem)
- Wake-On-LAN
- RTC timer to power-on the system
- AC power failure recovery

System Health Monitor Functions
- Monitors CPU/system temperature
- Monitors ±12V/5V/3.3V/VBAT(V)/5VSB(V) voltages
- Monitors CPU/chassis fan speed

- Read back capability that displays temperature, voltage and fan speed
- CPU Temperature Protection function monitors CPU temperature during system boot-up

Onboard Audio Features
- AC'97 2.2 S/PDIF extension compliant codec
- Supports Microsoft® DirectSound/DirectSound 3D
- AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
- 6-channel audio output

Onboard LAN Features (NFII ULTRA-AL only)
- nVIDIA® nForce2 MCP and ICS1893 Phy
- Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible PHY
- Integrated power management functions
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation

PCI Bus Master IDE Controller
- Two PCI IDE interfaces support up to four IDE devices
- Supports ATA/33, ATA/66, ATA/100 and ATA/133 hard drives
- UDMA Modes 3, 4, 5 and 6 Enhanced IDE (data transfer rate up to 133MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

Serial ATA IDE Interface
- Uses Marvell 88i8030 chip
- Supports one SATA (Serial ATA) interface which is compliant with SATA 1.0 specification (1.5Gbps interface)

Processor Socket
- Socket A
- Equipped with a switching voltage regulator that automatically detects 1.100V to 1.850V

AGP (Accelerated Graphics Port)
- Supports AGP 8x up to 2132MB/sec. and AGP 4x up to 1066MB/sec. bandwidth for 3D graphics applications

Rear Panel I/O Ports (PC 99 color-coded connectors)
- Four USB 2.0/1.1 ports
- One RJ45 LAN port (NFII ULTRA-AL only)
- Two DB-9 serial ports
- One DB-25 parallel port
- One mini-DIN-6 PS/2 mouse port
- One mini-DIN-6 PS/2 keyboard port
- Three audio jacks: line-out, line-in and mic-in

14

I/O Connectors
- One connector for 2 additional external USB 2.0/1.1 ports
- One connector for 1 external game/MIDI port
- One front audio connector for external line-out and mic-in jacks
- Two internal audio connectors (AUX-in and CD-in)
- One 4-channel audio output connector
- One S/PDIF-in/out connector
- One connector for IrDA interface
- One connector for serial ATA interface
- Two IDE connectors
- One floppy connector
- Two ATX power supply connectors
- One Wake-On-LAN connector
- CPU, chassis and 2nd fan connectors

Expansion Slots
- 1 AGP slot
- 5 PCI slots

2.2 Package Checklist

The system board package contains the following items:

- ☑ The system board
- ☑ One users manual
- ☑ One IDE cable for ATA/33, ATA/66, ATA/100 or ATA/133 IDE drives
- ☑ One 34-pin floppy disk drive cable
- ☑ One I/O shield
- ☑ One "Mainboard Utility" CD
- ☐ One serial ATA data cable (optional)
- ☐ One serial ATA power cable (optional)
- ☐ One card-edge bracket mounted with S/PDIF ports (optional)
- ☐ One card-edge bracket mounted with center/bass and rear out ports - 4-channel audio output (optional)
- ☐ One card-edge bracket mounted with USB ports (optional)

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

3.1 Caractéristiques et Spécifications

Processeur
- AMD Athlon™ XP 266/333/400MHz FSB
- AMD Athlon™ 200/266MHz FSB

Chipset
- NVIDIA® nForce2 chipset
  - Pont Nord: nForce2 Ultra 400
  - Pont Sud: nForce2 MCP

Mémoire Système
- Support d'interface de la mémoire à deux canaux
- Supporte jusqu'à 3Go de mémoire
- Supporte DDR SDRAM DIMM 2.5V PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) ou PC3200 (DDR400)
- 3 sockets DDR SDRAM DIMM 184 broches
- L2 mémoire cache
  - Processeur Athlon™ XP / Athlon™: Cache de pipeline burst intégré 256Ko Niveau 2

BIOS
- Compatible avec Award BIOS, Windows® 95/98/2000/ME/XP Plug and Play
- Genie BIOS fournit:
  - Overclocking de CPU/DRAM
  - Le CPU/AGP/DRAM/Chipset overvoltage
- Supporte l'amorçage séquentiel SCSI
- EPROM Flash pour une mise à niveau facile du BIOS
- Supporte la fonction DMI 2.0
- Mémoire Flash 4Mbit

Design à Haut Rendement Énergétique
- ACPI STR (Suspend to RAM) fonction
- Réveil-Sur-PS/2 Clavier/Souris (Wake-On-PS/2 Keyboard/Mouse)
- Eveil Clavier/Souris USB (Wake-On-USB Keyboard/Mouse)
- Eveil Sonnerie (Wake-On-Ring)
- Réveil Par Le Réseau (Wake-On-LAN)
- Minuterie RTC pour allumer le système
- Récupération après Défaillance d'Alimentation CA

System Health Monitor Fonctions
- Gère l'alarme de température et de surchauffe de CPU/système
- Gère l'alarme de voltage et d'échec de ±12V/5V/3.3V/VBAT(V)/5VSB(V)

Français

16

- Gère la vitesse de ventilateur de CPU/chassis et alarme de défaillance
- Capacité de relecture qui affiche la température, le voltage et la vitesse de ventilateur
- La fonction de Contrôle de la Température est destinée à veiller sur la température du CPU pendant le boot du système.

Caractéristiques Audio sur Carte
- Codec conforme à l'extension AC'97 2.2 S/PDIF
- Supporte DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 supporté avec full duplex, convertisseur de vitesse d'échantillonnage indépendant pour enregistrement audio et lecture.
- Sortie audio 6-canaux

Fonctionnalités Onboard LAN (NFII ULTRA-AL seulement)
- Utilisant nVIDIA® nForce2 MCP et ICS1893 Phy
- IEEE 802.3, 10BASE-T integré et PHY 100BASE-TX compatible
- Fonctions d'administration de puissance integrée
- Full-Support complète en 10 et 100 Mbps
- Auto-négociation de supports IEEE 802.3u

Contrôleur IDE de BUS Maître PCI
- Deux interfaces PCI IDE supportant jusqu'à quatre matériels IDE
- Supporte des disques durs ATA/33, ATA/66, ATA/100 et ATA/133
- IDE Améliorés Mode 3, 4, 5 et 6 UDMA (vitesse de transfert de données allant jusqu'à 133Mo/sec.)
- La gestion de Bus réduit l'utilisation du CPU pendant les transferts sur disque
- Supporte les CD-ROM ATAPI, LS-120 et ZIP

Interface ATA IDE en Série
- Utilisant la puce Marvell 88i8030
- Supportant une interface SATA (Serial ATA) compatible avec la spécification SATA 1.0 (bande passante à 1.5Gbps)

Socket Processeur
- Socket A
- Équipée d'un régulateur permutable du voltage qui détécte automatiquement la variation de la tension du circuit entre 1.100V et 1.850V.

AGP (Accelerated Graphics Port)
- Supporte 8x AGP avec une bande passante allant jusqu'à 2132Mo/sec et 4x AGP avec une bande passante allant jusqu'à 1066Mo/sec pour les applications graphiques 3D

17

Le Panneau des Ports Entrée/Sortie en Arrière
- 4 ports USB 2.0/1.1
- 1 port RJ45 LAN (NFII ULTRA-AL seulement)
- 2 ports série DB-9
- 1 port parallèle DB-25
- 1 port souris PS/2 mini-DIN-6
- 1 port clavier PS/2 mini-DIN-6
- 3 prises audio: ligne de sortie (line-out), ligne d'entrée (line-in) et entrée micro (mic-in)

Connecteurs Entrée/Sortie
- 1 connecteur pour 2 ports USB 2.0/1.1 supplémentaires
- 1 connecteur pour 1 pour de jeu/MIDI externe
- 1 connecteur audio de l'avant pour la sortie ligne et l'entrée micro
- 2 connecteurs audio internes (CD-in et AUX-in)
- 1 connecteur de Sortie audio 4-canaux
- 1 connecteur pour entrée/sortie S/PDIF
- 1 connecteur pour interface IrDA
- 1 connecteur pour l'interface serial ATA
- 2 connecteurs IDE
- 1 connecteur de disquette
- 2 connecteurs d'alimentation ATX
- 1 connecteur Wake-On-LAN
- Connecteurs de ventilateurs de CPU, de châssis et de second ventilateur

Logements d'Extension
- 1 slot AGP
- 5 slots PCI

3.2 Liste de Vérification de l'Emballage

L'emballage de la carte système contient les éléments suivants:

- ☑ 1 carte système
- ☑ 1 manuel utilisateur
- ☑ 1 câble IDE pour les lecteurs IDE ATA/33, ATA/66, ATA/100 ou ATA/133
- ☑ 1 câble 34 broches pour lecteur de disquette
- ☑ 1 shield I/O
- ☑ 1 CD "Mainboard Utility"
- ☐ 1 câble série de donnée ATA (optionnel)
- ☐ 1 câble série d'alimentation ATA (optionnel)
- ☐ 1 bracket avec 1 entrée et 1 sortie S/PDIF (optionnel)
- ☐ 1 bracket avec une sortie audio 4-canaux (optionnel)
- ☐ 1 bracket avec ports USB (optionnel)

Si l'un de ces éléments n'était pas dans l'emballage ou s'il était endommagé, veuillez contacter votre revendeur ou votre représentant.

4.1 Leistungsmerkmale und Technische Daten

Prozessor
- AMD Athlon™ XP 266/333/400MHzFSB
- AMD Athlon™ 200/266MHz FSB

Chipsatz
- NVIDIA® nForce2 chipsatz
  - Nordbrücke: nForce2 Ultra 400
  - Südbrücke: nForce2 MCP

Systemspeicher
- Unterstützt 2-Kanal Speicherschnittstellen
- Unterstützt einen Speicher von bis zu 3GB
- Unterstützung 2.5V DDR SDRAM DIMM PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) oder PC3200 (DDR400)
- 3 DDR-SDRAM-DIMM-Fassungen mit 184poligem Anschlußstecker
- L2-Cache-Speicher
  - Athlon™ XP / Athlon™-Prozessor: eingebauter 256-KB-Burst-Cache der Stufe 2 und mit Pipeline

BIOS
- Kompatibilität mit Award BIOS, Windows® 95/98/2000/ME/XP Plug and Play
- Genie BIOS versorgt:
  - CPU DRAM Übertaktung
  - CPU/AGP/DRAM/Chipset Überspannung
- Unterstützung des sequentiellen SCSI-Ladens
- Flash EPROM für ein einfaches Aktualisieren des BIOS
- Unterstützung der DMI-2.0-Funktion
- Flash-Speicher (4Mbit)

Energomisches Design
- ACPI STR (Suspend to RAM) funktion
- Wecken bei Betätigung der PS/2 Tastatur/Maus (Wake-On-PS/2 Keyboard/Mouse)
- Wecken bei USB-Tastatur/Maus (Wake-On-USB Keyboard/Mouse)
- Wecken bei Klingeln (Wake-On-Ring)
- Wecken des Systems durch das Netzwerk (Wake-On-LAN)
- RTC-Taktgeber zum Einschalten des Systems
- Wiederherstellung der Wechselstromversorgung nach einem Ausfall

Deutsch

System Health Monitor Funktions
- Überwachung der Temperatur des CPU/Systems sowie Warnsignal bei Überhitzung
- Überwachung der Spannungen des ±12V/5V/3.3V/VBAT(V)/ 5VSB(V) sowie Warnsignal bei Ausfall
- Überwachung der Geschwindigkeit des CPU-Ventilator/Chassis-Ventilator und sendet ein Warnsignal bei einem Ausfall aus
- Anzeige der Temperatur, Spannung und Geschwindigkeit des Ventilators
- Die Funktion CPU Temperature Protection besitzt die Eigenschaft, die Temperatur der CPU während des Bootvorgangs zu überwachen.

Audiomerkmale auf Platine
- Codec für AC'97 2.2-Erweiterung S/PDIF
- Unterstützung der Microsoft DirectSound/DirectSound 3D
- AC'97 Unterstützung des Audiotreiber und Audiowiedergabe
- 6-Kanal-Audioausgang

Merkmale des LANs auf Platine (Nur für NFII ULTRA-AL)
- Benutzung des nVIDIA® nForce2 MCP und ICS1893 Phy
- Integrierter IEEE 802.3, 10BASE-T und 100BASE-TX kompatibler PHY
- Integrierte Power-Management-Funktionen
- Vollduplex-Unterstützung bei 10 und 100 Mbps
- Unterstützung der IEEE-802.3u-Auto-Negotiation

PCI-Bus-Master-IDE-Controller
- Unterstützung von bis zu vier IDE-Geräten durch zwei PCI-IDE-Schnittstellen
- Unterstützung der Festplatten ATA/33, ATA/66, ATA/100 und ATA/133
- Erweitertes IDE des UDMA-Modus 3, 4, 5 und 6 (Datenübertragungsgeschwindigkeit von bis zu 133MB/Sek.).
- Verminderte CPU-Benutzung während Diskettenübertragung dank dem Bus-Master
- Unterstützung des ATAPI CD-ROMs, LS-120 und ZIP

Serielle ATA IDE Schnittstelle
- Verwendet Marvell 88i8030 Chip
- Unterstützt ein SATA(Serielle ATA)-Schnittstelle, die mit SATA 1.0 Spezifikation (1.5Gigabits Schnittstelle) konform ist.

Prozessor Socket
- Buchse A
- Sie ist auch mit einem Schaltspannungsregler ausgestattet, der utomatisch 1.100V als 1.850V wahrnimmt.

AGP (Accelerated Graphics Port)
- Für die 3D-Grafikanwendungen unterstützt die universelle AGP-Steckfassung einen AGP 8x mit einer Bandweite von bis

zu 2132MB/Sek. sowie einen AGP 4x mit einer Bandweite von bis zu 1066MB/Sek.

Ein-/Ausgabe-Porte an der Rückwand
- 4 USB 2.0/1.1-Anschlüsse
- 1 RJ45 LAN-Anschlüsse (Nur für NFII ULTRA-AL)
- 2 serieller DB-9-Anschluß und 1 DB-25-Parallelanschluß
- 1 Anschluß für eine PS/2-Maus/Tastatur
- 3 Audio-Anschlußbuchsen: Ausgangsleitung, Eingangsleitung und Mikrofon-Eingang

Ein-/Ausgabe-Steckverbinder
- 1 Anschlußfassung für 2 zusätzliche externe USB 2.0/1.1-Anschlüsse
- 1 Anschluß für einen externen game/MIDI
- 1 Anschlußfassung für Ausgangsleitung und Mikrofon-Eingang
- 2 interne Audioanschlüsse (CD-in und AUX-in)
- 1 4-Kanal-Audioausgang Anschluß
- 1 S/PDIF-in/Aus-Steckverbinder
- 1 Anschluß für die IrDA-Schnittstelle
- 1 Steckverbinder für serielle ATA-Schnittstelle
- 2 IDE-Anschlüsse und 1 Floppy-Anschlüsse
- 2 Anschlußstecker für das ATX-Netzgerät
- 1 Anschlußstecker für Wecken durch LAN
- CPU-, Chassis- und zweiter-ventilator-Anschlüsse

Erweiterungssteckfasssungen
- 1 AGP-Einbauplätzen und 5 PCI-Einbauplätzen

4.2 Verpackungsliste

In der Verpackung der Systemplatine sind folgende Artikel enthalten:

☑ 1 Systemplatine
☑ 1 Benutzerhandbuch
☑ 1 IDE-Kabel für ATA/33-IDE-Laufwerke, ATA/66-IDE-Laufwerke, ATA/100-IDE-Laufwerke oder ATA/133-IDE-Laufwerke
☑ 1 Floppylaufwerkskabel mit 34poligen Anschlußstecker
☑ Eine I/O-Schutzlatte
☑ 1 CD mit "Mainboard Utility"
☐ 1 aufeinanderfolgendes ATA-Kabel (zur Option)
☐ 1 aufeinanderfolgendes ATA-Speisungskabel (zur Option)
☐ 1 Bracket mit einem S/PDIF Ein- und Ausgang (zur Option)
☐ Eine Hinterlatte mit dem 4-Kanalaudioausgang (zur Option)
☐ 1 Bracket mit einem USB Port (zur Option)

Fehlt einer dieser Artikel oder weist einer dieser Artikel Beschädigungen auf, wenden Sie sich an Ihren Händler oder Vertreter.

21

5.1 Características y Especificaciones

Procesador
- AMD Athlon™ XP 266/333/400MHz FSB
- AMD Athlon™ 200/266MHz FSB

Chipset
- NVIDIA® nForce2 chipset
    - Puente Norte: nForce2 Ultra 400
    - Puente Sur: nForce2 MCP

Memoria de Sistema
- Se soporta el interfaz de dos canales
- Soporta hasta 3Gb de la memoria
- Soporta 2.5V DDR SDRAM DIMM PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) o PC3200 (DDR 400)
- Tres zocalos 184-pin DDR SDRAM DIMM
- L2 Memoria Cache
    - El procesador Athlon™ XP / Athlon™ de 256KB el nivel 2 memoria cache

BIOS
- Award BIOS, Windows® 95/98/2000/ME/XP Enchufar y Usar compatible
- Genie BIOS proporciona:
    - El impulso CPU/DRAM
    - La instalacion de la tension del CPU/AGP/DRAM/Chipset
- Soporta el arranque de SCSI
- Flash EPROM instalar una versión mejorada de BIOS
- Soporta la función de DMI 2.0
- Memoria Instante (4Mbitios)

Diseño Energia Eficiente
- ACPI STR (Suspend to RAM) función
- PS/2 Teclado/Ratón de Wake-On (Wake-On-PS/2 Keyboard/ Mouse)
- Teclado/Ratón de Wake-On-USB (Wake-On-USB Keyboard/ Mouse)
- Wake-On-Ring (external modem)
- Wake-On-LAN
- Temporizador de RTC para encender el sistema
- Recuperación de Fracaso de Energía AC

Funciones de Monitor de Salud del Sistema
- Monitores de los CPU/sistema temperaturas y alarma acalorada.
- Monitores de voltajes de ±12V/5V/3.3V/VBAT(V)/5VSB(V) y alarma de fracaso.

22

- Vigila la velocidad del abanico del abanido del CPU/chassis y alarma de fracaso.
- Capacidad de Leer hacia atrás que presenta la temperatura, voltaje y velocidad de abanico.
- Esta funcion tiene la capacidad de supervisar la temperatura del procesador desde el momento cuando el sistema esta cargando.

Características de Audio En Tablero
- AC'97 2.2 S/PDIF extensión complaciente codec
- Soporta DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 soporta full duplex, independiente frecuencia de muestreo convertido por audio recording and playback
- Output auricular de 6-canal

Características de LAN Interno (NFII ULTRA-AL sólo)
- Utiliza el controlador nVIDIA® nForce2 MCP y ICS1893 Phy
- IEEE 802.3, 10BASE-T integrado y PHY compatible de 100BASE-TX
- Funciones de power management de integrado
- Soporte dúplex completo en ambos 10 y 100 Mbps
- Soporta auto negociación de IEEE 802.3u

Controlador de IDE Maestro de Bus PCI
- Dos interfaces de PCI IDE soporta hasta 4 dispositivos de IDE
- Soporta discos duros ATA/33, ATA/66, ATA/100 y ATA/133
- UDMA modo 3, 4, 5 y 6 ensanchado IDE (la transfererncia de datos es 133MB/sec.)
- Bus mastering reduce la carga a la Unidad Central de Proceso
- Soporta ATAPI CD-ROM, LS-120 y ZIP

Interfaz serie ATA IDE
- Usa chip Marvell 88i8030
- Permite una interfaz SATA (Serie ATA) la cual es compatible con la especificación SATA 1.0 (interfaz 1.5Gbps)

Procesador Zócalo
- Zócalo A
- Equipada con el regulador que detecta el voltaje de 1.100V a 1.850V automaticamente

AGP (Accelerated Graphics Port)
- Soporta AGP 8x con 2132MB/sec. y AGP 4x con 1066MB/sec. para las tearjetas 3D

Panel de Reverso de Conectores de Entrada
- 4 puertos de USB 2.0/1.1
- 1 puerto de RJ45 LAN (NFII ULTRA-AL sólo)
- 2 puertos de serie DB-9

Español

23

- 1 puerto paralelo de DB-25
- 1 puerto de ratón PS/2 mini-DIN-6
- 1 puerto de teclado mini-DIN-6 PS/2
- 3 enchufes de audio: línea de salida, línea de entrada y mic de entrada

I/O Conectores
- 1 conector para 2 puertos de USB 2.0/1.1 externo adicional
- 1 conector para 1 puerto externo game/MIDI
- 1 externo conector para línea de salida y mic de entrada
- 2 conectores de audio interno (CD-in y AUX-in)
- 1 conector de output auricular de 4-canal
- 1 conector para S/PDIF-in/out
- 1 conector para interfaz de IrDA
- 1 conector para interfaz serie ATA
- 2 conectores de IDE
- 1 conector de disquete
- 2 conectors de fuente de alimentación de ATX
- 1 conector de Wake-On-LAN
- Conectores de abanicos de CPU, chasis y secundario

Ranuras de Expansión
- 1 slot AGP
- 5 slots PCI

5.2 Lista de Chequeo del Paquete

El paquete del tablero de sistema contiene los siguientes artículos:

☑ 1 tablero de sistema
☑ 1 manual de usuario
☑ 1 cable de IDE para las unidades de ATA/33, ATA/66, ATA/100 o ATA/133 IDE
☑ 1 cable de unidad de disquete de 34-terminales
☑ Una chapa protectora I/O
☑ 1 CD de "Mainboard Utility"
☐ 1 cable de serie ATA (opcional)
☐ 1 cable alimentador de serie ATA (opcional)
☐ 1 placa con 1 puerto S/PDIF-in y 1 puerto S/PDIF-out (opcional)
☐ 1 chapa trasera con salida audio de 4 canales (opcional)
☐ 1 placa con 1 puerto USB (opcional)

Si cualquieres de estos artículos están perdidos o dañados, favor de ponerse en contacto con su tratante o representantes de venta para la asistencia.

24

Ãëàâà 6 - Ðóññêèé ÿçûê

6.1 Õàðàêòåðèñòèêè è ñâîéñòâà

Ïðîöåññîð
- AMD Athlon™ XP 266/333/400MÃö FSB
- AMD Athlon™ 200/266MÃö FSB

×èïñåò
- NVIDIA® nForce2 ×èïñåò
  - Ñåâåðíûé Ìîñò: nForce2 Ultra 400
  - Þæíûé Ìîñò: nForce2 MCP

Ïàìÿòü
- Ïîääåðæèâàåò äâóõêàíàëüíûé èíòåðôåéñ
- Ïîääåðæèâàåò äî 3ÃÁ ïàìÿòè (íåáóô. DIMM)
- Èñïîëüçóåò 2.5V PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) è PC3200 (DDR 400) DDR SDRAM DIMM
- Òðè ãíåçäà äëÿ 184-pin DDR SDRAM DIMM
- Ïàìÿòü êýøà L2
  - Ïðîöåññîð Athlon™ XP / Athlon™: âñòðîåííûé êýø âòîðîãî óðîâíÿ 256KB

BIOS
- Award BIOS, Windows® 95/98/2000/ME/XP Plug and Play
- Genie BIOS îáåñïå÷èâàåò:
  - Ðàçãîí CPU/DRAM ñ øàãîì
  - Óñòàíîâêó íàïðÿæåíèÿ äëÿ CPU/AGP/DRAM/×èïñåòà
- Ïîääåðæèâàåò çàãðóçêó SCSI
- Flash EPROM äëÿ îáíîâëåíèÿ BIOS
- Ïîääåðæèâàåò Ôóíêöèþ DMI 2.0
- 4Máèò Ôëýø-ïàìÿòü

Ýíåðãîìè÷íûé Äèçàéí
- ACPI STR (Suspend to RAM)
- Àêòèâèçàöèÿ Ïà Äâèæåíèå Ìûøè (Wake-On-Keyboard/Mouse)
- Àêòèâèçàöèÿ Ïà Íàæàòèå Êíîïîê USB Êëàâèàòóðû (Wake-On-USB Keyboard/Mouse)
- Àêòèâèçàöèÿ Ïà Âõîäÿùèé Çâîíîê (Wake-On-Ring)
- Àêòèâèçàöèÿ Ïà Ñåòåâîå Ñîáûòèå (Wake-On-LAN)
- RTC Òàéìåð äëÿ Âêëþ÷åíèÿ Ñèñòåìû
- Ñêà÷êè Íàïðÿæåíèÿ

25

Ôóíêöèè Ìîíèòîðèíãà Ñîñòîÿíèÿ Ñèñòåìû

- Mîíèòîðèíã òåìïåðàòóðû ïðîöåññîðà/ñèñòåìû
- Mîíèòîðèíã íàïðÿæåíèé ±12V/5V/3.3V/VBAT(V)/ 5VSB(V)
- Mîíèòîðèíã ñêîðîñòè âðàùåíèÿ âåíòèëÿòîðà CPU/ chassis
- Îòîáðàæåíèå òåìïåðàòóðû, íàïðÿæåíèÿ è ñêîðîñòè âðàáîòû âåíòèëÿòîðà
- Ôóíêöèÿ Çàùèòû Ïðîöåññîðà îò Ïåðåãðåâà îòñëåæèâàåò òåìïåðàòóðó ïðîöåññîðà ñ ìîìåíòà íà÷àëà çàãðóçêè êîìïüþòåðà.

Âñòðîåííûé Çâóê

- AC'97 2.2
- Ïîääåðæèâàåò Microsoft® DirectSound / DirectSound 3D
- AC'97 ïîääåðæèâàåòñÿ ñ ïîëíîäóïëåêñíûì, íåçàâèñèìûì êîíâåðòîì ÷àñòîòû äëÿ çàïèñè è ïðîèãðûâàíèÿ çâóêà
- 6-è êàíàëüíûé çâóêîâîé âûõîä

Âñòðîåííûå ñåòåâûå Ôóíêöèè (òîëüêî NFII ULTRA-AL)

- Áûñòðûé Ethernet êîíòðîëëåð nVIDIA® nForce2 MCP è ICS1893 Phy
- Âñòðîåííûé èíòåðôåéñ IEEE 802.3, 10BASE-T è 100BASE-TX ñîâìåñòèìûé PHY
- Âñòðîåííûå Ôóíêöèè óïðàâëåíèÿ ïèòàíèåì
- Ïîëíîäóïëåêñíàÿ ïîääåðæêà íà 10 è 100 Mbps
- Ïîääåðæèâàåò IEEE 802.3u auto-negotiation

Êîíòðîëëåð PCI IDE Ìàñòåð Øèíû

- Äâà PCI IDE èíòåðôåéñà ïîääåðæèâàþò äî ÷åòûðåõ IDE óñòðîéñòâà
- Ïîääåðæèâàåò æåñòêèå äèñêè ATA/33, ATA/66, ATA/100 è ATA/133
- UDMA Mode 3, 4, 5 è 6 Đàñøèðåííûé IDE (ñêîðîñòü ïåðåäà÷è äàííûõ äî 133Ì Á/ñåê.)
- Ìàñòåðèíã Øèíû ñíèæàåò íàãðóçêó íà öåíòðàëüíûé ïðîöåññîð
- Ïîääåðæèâàåò ATAPI CD-ROM, LS-120 è ZIP

IDE Èíòåðôåéñ SATA (Serial ATA)

- Marvell 88i8030 chip
- Ïîääåðæèâàåò îäèí èíòåðôåéñ SATA (Serial ATA), ñîâìåñòèìûé ñî ñïåöèôèêàöèåé SATA 1.0

×èïñåò Socket

- Socket A

26

Ðóññêèé

- Ñèñòåì íàÿ ïëàòà èì ååò ñïåöèàëüí ûé ðåãóëÿòîð, êîòîðûé àâòîì àòè÷åñêè îïðåäåëÿåò íàïðÿæåíèå îò 1.100V äî 1.850V.

AGP (Accelerated Graphics Port)
- Óí èâåðñàëüí ûé AGP ñëîò ïîääåðæèâàåò AGP 8x ñî ñêî ðî ñòüþ ïåðåäà÷è äàí íûõ 2132MB/ñåê è AGP 4x ñ 1066MB/ñåê â 3D ãðàôè÷åñêèõ ïðèëîæåíèÿõ

Ïî ðòû Âàî äà/Âûâî äà (I/O) çàäí åé ïàí åëè
- 4 USB 2.0/1.1 ïî ðòà
- 1 RJ45 LAN ïî ðòà (òî ëüêî NFII ULTRA-AL)
- 2 DB-9 ïî ðòà
- 1 DB-25 ïàðàëëåëüí ûé ïî ðò
- 1 ì èí è-DIN-6 PS/2 ïî ðò äëÿ ì ûøè
- 1 ì èí è-DIN-6 PS/2 ïî ðò äëÿ êëàâèàòóðû
- 3 ãí åçäà äëÿ çâóêà: âûõî ä, âõî ä è ì èêðî Ôî í

Ðàçúåì û Âàî äà/Âûâî äà
- 1 ðàçúåì äëÿ 2-õ äî ïî ëí èòåëüí ûõ âí åøí èõ USB 2.0/1.1 ïî ðòî â
- 1 ðàçúåì äëÿ âí åøí åãî èãðî âî ãî /MIDI ïî ðòà
- 1 ðàçúåì äëÿ âí åøí åãî ëèí åéí î ãî âûõî äà è ì èêðî Ôî í à
- 2 âí óòðåí í èõ çâóêî âûõ ðàçúåì a (CD-in è AUX-in)
- 1 4-õ êàí àëüí ûé âûõî ä
- 1 ðàçúåì S/PDIF-in/out
- 1 ðàçúåì äëÿ èí òåðÔåéñà IrDA
- 1 ïî ñëåäî âàòåëüí ûé ðàçúåì ATA
- 2 IDE ðàçúåì à
- 1 Floppy ðàçúåì à
- 2 ðàçúåì a ïèòàí èÿ ATX
- 1 Wake-On-LAN (Àêòèâèçàöèÿ í à ñåòåâî å ñî áûòèå)
- Ðàçúåì û äëÿ âåí òèëÿòî ðà ïðî öåññî ðà è êî ðïóñà

Ñëî òû
- 1 AGP ñëî òî â
- 5 PCI ñëî òî â

27

Ðóññêèé ••

6.2   Êî ì ï ëåêòàöèÿ

Êî ì ï ëåêòàöèÿ ï î ñòàâêè ì àòåðèí ñêî é ï ëàòû:

- ☑ Ì àòåðèí ñêàÿ ï ëàòà
- ☑ Ðóêî âî äñòâî ï î ëüçî âàòåëÿ
- ☑ Î äèí IDE øëåéô äëÿ æåñòêèõ äèñêî â ATA/33, ATA/66, ATA/100 èëè ATA/133
- ☑ Î äèí 34-pin øëåéô äëÿ äèñêî âî äà
- ☑ Î äí à çàùèòí àÿ ï ëàí êà I/O
- ☑ Î äèí CD ñ "Mainboard Utility"
- ☐ Î äèí ï î ñëåäî âàòåëüí ûé êàáåëü ATA (î ï öèî í àëüí î)
- ☐ Î äèí ï î ñëåäî âàòåëüí ûé êàáåëü ï èòàí èÿ ATA (î ï öèî í àëüí î)
- ☐ Çàäí ÿÿ ï ëàí êà ñ S/PDIF-in è S/PDIF-out ï î ðòà (î ï öèî í àëüí î)
- ☐ Î äí à çàäí ÿÿ ï ëàí êà ñ 4-êàí àëüí ûì àóäèî âûõî äî ì (î ï öèî í àëüí î)
- ☐ Çàäí ÿÿ ï ëàí êà ñ USB ï î ðòà (î ï öèî í àëüí î)

Åñëè â êî ì ï ëåêòå èç ýòî ãî ÷åãî -òî í å õâàòàåò èëè ÷òî -òî èñï î ð÷åí î , ï î æàëóéñòà, ñâÿæèòåñü ñî ñâî èì äèëåðî ì èëè ï ðî äàâöî ì .