

NR120

Intel® 845-G Motherboard

USER'S MANUAL

**Intel® Pentium®4 Processor Motherboard
Rev. 1.0**

Revision History

Revision	Date	Description
1.0		Initial release of NR120 motherboard user's manual

Item Checklist

1 NR120 Motherboard

1 Floppy Cable

1 ATA Cable 66/100

1 I/O Shield

1 Heatsink Retention Module

1 CD for Motherboard Driver

NR120 User Manual

Quick Installation Guide

Safety Instructions

Please follow some precautions when operating your computer.

1. Always unplug the power cord when inserting any add-on card or module inside the system.
2. Use a grounded wrist strap before handling computer components. If one is not available, touch both of your hands to a safely grounded object or to a metal object.
3. Place components on a level grounded antistatic pad or on the packaging that came with the components whenever the components are separated from the system.
4. Keep equipment away from moisture and humidity.
5. Keep this User's Manual for future reference.

Table of Contents

Chapter 1. Introduction	1
Motherboard Specification	1
NR120 Motherboard Layout	4
Chapter 2. Hardware Installation Process	5
Installing Central Process Unit (CPU)	5
Installing Memory Modules	7
Connecting IDE and Floppy Disk Cables and Drives	8
Installing Expansion Cards	10
Connect Power Supply Cable	11
I/O Back Panel Introduction	12
Jumpers Introduction	14
Chapter 3. AMI® BIOS Setup	18
Entering Setup	18
The Main Menu	18
Standard CMOS Setup	19
Advanced CMOS Setup	20
Advanced Chipset Setup	21
Power Management Setup	22
PCI/Plug and Play Setup	23
Peripheral Setup	24
Hardware Monitor Setup	25
Auto-Detect Hard Disks	26
Change User Password	27
Change Supervisor Password	28
Auto Configuration with Optimal Settings	29
Auto Configuration with Fail Safe Settings	30
Save Settings and Exit	31
Exit Without Saving	32

Chapter 1 Introduction

Motherboard Specifications

Form Factor:

- Standard μ ATX 9.6"x 9.6"
-

Processor:

- Supports single Intel® Pentium® 4 Processor or Northwood Processor in 478 ball FC-PGA2 package
 - Processor socket mPGA478B/uFC-PGA2
 - 400 MHz system bus, capable to enhance processor system bus to 533 MHz with Northwood processor
 - Note: Brookdale-GL only supports 400 MHz system bus
-

Cache Memory:

- Level 1 and level 2 cache memory is integrated in the processor.
-

System Memory:

- Support 2 x 184 pin DDR DIMM (200Mhz-PC1600 & 266 MHz-PC2100)
 - Memory bandwidth up to 2.1 GB/s
 - Support 64Mb, 128Mb, 256Mb, and 512Mb SDRAM devices
 - Support minimum 64MB to 2GB maximum
 - Does not support ECC function
 - Support suspend-to-RAM sleep state (ACPI S3)
-

Core Logic Chipset:

- Intel® Brookdale-G/GL GMCH (Graphics Memory Controller Hub) in 788 ball FC-BGA package
 - Intel® ICH4 (I/O Controller Hub 4) in 421 mBGA package
 - Intel® 82802AB 4Mb FWH (Firmware Hub) or equivalent
-

PCI bus:

- PCI 2.2 compliant
 - PME# and 3.3Vaux signals to support power management.
-

Audio:

- ADI AD1981A analog CODEC
 - AC'97 Revision 2.2 compliant (Integrated in ICH4)
 - Three mini-DIN audio jacks (Line-out, Line-in, and Mic-in)
 - Two audio headers, locking type: CD-in, Aux-in
 - Audio header for Mic and head phone (option)
 - Built in amplifier for mono-out (option)
-

Integrated Graphics Controller:

- AGP v2.0 compliant
 - Enhance graphic engine to boost 2D/3D performance
 - Supports 1x/2x/4x AGP data transfers and 2x/4x Fast Writes
 - Optimized point-to-point topology using 1.5V signaling in 4x mode
 - Integrated 350 Mhz RAMDAC
 - Digital flat panel/TV-out support via ADD (AGP Digital Display) card
 - Note: Brookdale-GL only supports ADD card
-

On board EIDE:

- 2x PCI IDE ports supporting up to 4 devices
 - Support ATA-100/66/33, Bus Master IDE and PIO modes
-

On board I/O:

- Low Pin Count SMC LPC47M192
 - 1 serial port - DB9 (16550 UART), header for second serial port (option)
 - 1 Parallel Port - DB25 with ECP/EPP support
 - 1 Floppy port with 1.2MB, 1.44MB and 2.88MB support
 - 1 PS/2 mouse connector, 1 PS/2 keyboard connector
 - 2 PWM fan controlled output headers
 - 6 USB 2.0 ports: 4 ports with RJ/USB in back panel connection, 2 ports with 2X5 header for front panel connection
 - 1 VGA connector, internal VGA is disabled if a AGP card is inserted
-

BIOS:

- AMI Plug & Play BIOS
 - ACPI v2.0 – WfM 2.0 – SMBIOS v2.3 – DMI v2.1 – PC2001
 - Auto detect for: CPU Speed, ATA-100
 - Wake-on PS/2 (KB, Mouse) & USB devices
 - Rapid Boot support
 - WOL, ASF support
 - Power management: ACPI S3, S4 support
-

Additional Features:

- Case intrusion header
 - Thermal sensor & CPU monitoring
 - NIC with integrated MBA boot (complete WOL support)
 - BIOS recovery & Boot-Block overwrite via jumper
 - Hardware Monitor Capability (LPC47M192)
 - Optional On Board LAN
-

Expansion Slots:

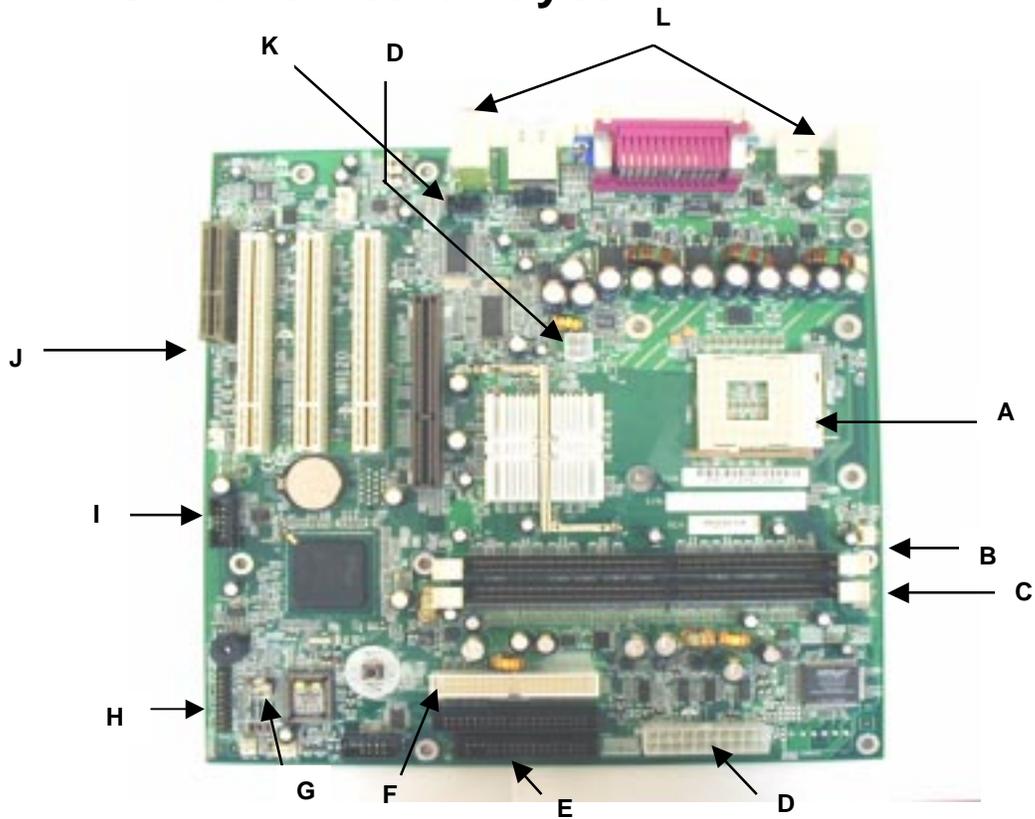
- 1 AGP 2.0 slot (AGP 4X, 1.5 signaling)
 - 3 PCI 2.2 slots (including 1 shared CNR slot)
 - 1 CNR slot (option)
-

NR120 Motherboard

Other:

- Front panel I/O 2X10 header, key pin 14
 - On-board buzzer
-

NR120 Motherboard Layout



A	CPU Socket	G	Jumper Connector
B	CPU Fan Socket	H	Front Panel Connector
C	Memory Sockets	I	Front Side USB
D	Power Supply Connector	J	Expansion Slots
E	Floppy Connector	K	Audio Connector
F	IDE Connectors	L	Back Panel Connectors



Front Panel Connector Pin Definition

Pin	Signal Name	I/O	Description
1	HD_PWR	O	Hard Disk LED pull-up (330 ohms) to +5V
2	HDR_BLNK_GRN	O	Front panel Green LED signal
3	HDA*	O	Hard Disk Active LED signal
4	HDR_BLNK_YEL	O	Front panel Yellow LED signal
5	GND	-	Ground
6	FPBUT_IN	I	Front panel On/Off button signal
7	FP_RESET*	I	Front panel Reset button signal
8	GND	-	Ground
9	+5V	O	+5V
10	FPSLP*	I	Front panel sleep button signal
11	IRRX	I	IRDA serial input receiver
12	GND	-	Ground
13	GND	-	Ground
14	KEY	X	KEY
15	IRTX	O	IRDA serial output transmit
16	+5V	O	+5V(PWRLED Power)
17	NC	-	not connected
18	NC	-	not connected
19	NC	-	not connected
20	GND	-	Ground

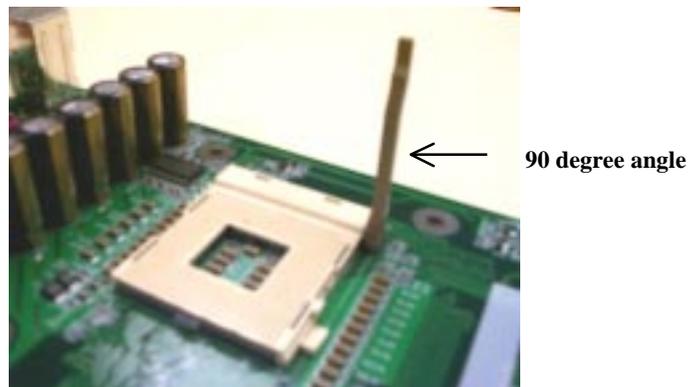
Chapter 2 Hardware Installation Process

Installing the Central Process Unit (CPU)

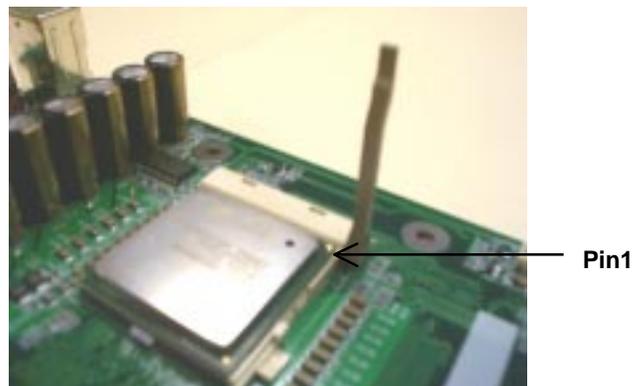
CPU Installation

1. Unlock the CPU socket by pulling the lever up to a 90-degree angle.
2. Position the CPU above the socket such that the **marked** corner (pin1) matches the corner near the base of the lever.
3. Place the CPU into the socket. If the CPU is unable to insert properly, check its orientation and attempt to re-install.
Warning! Do not force the CPU into the socket. Doing so will prompt bending of the pins and create damage to the CPU.
4. Close the socket by lowering the lever and locking the lever in place.

Step 1



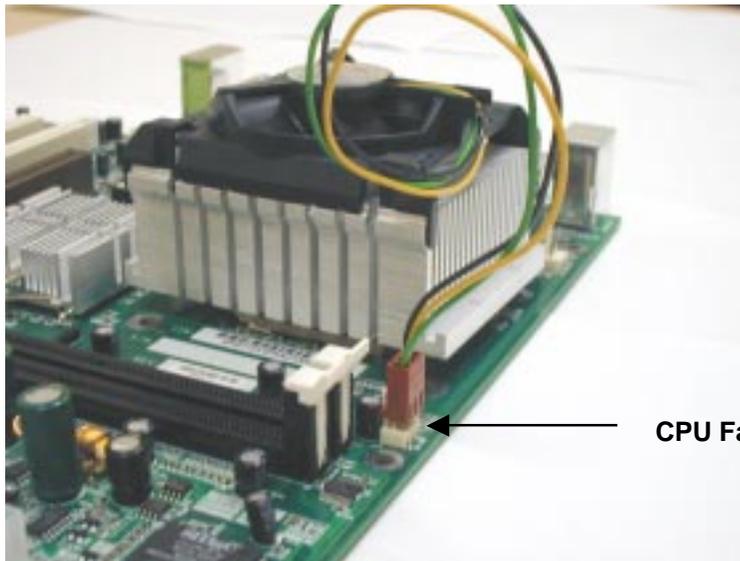
Step 2



Installing the Central Process Unit (CPU) *cont.*

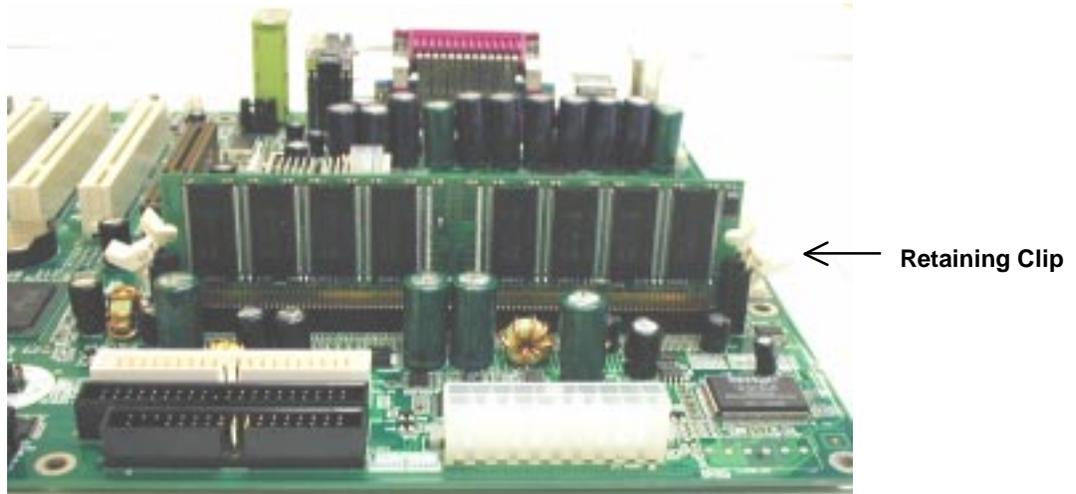
CPU Heat Sink Installation

1. Read the related CPU heat sink user's manual for more detailed installation procedures.
2. Connect CPU fan power cable into the CPU fan connector on the motherboard.



Installing Memory Modules

1. Push the white retaining clips on each of the memory socket outwards.
2. Match the notches on the contact edge of the memory module to the ridges in the memory socket.
3. Insert the memory module vertically into place. When properly inserted, the white retaining clips will move inward to lock in the module.
4. Repeat installation process when adding additional modules.

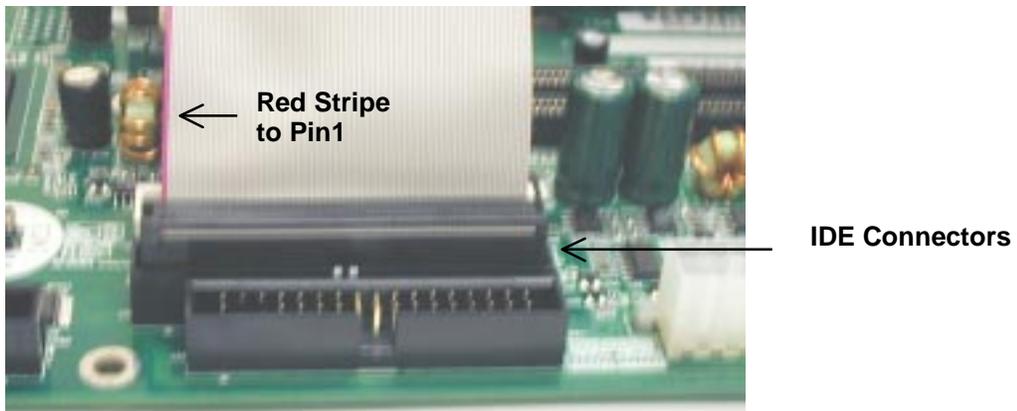
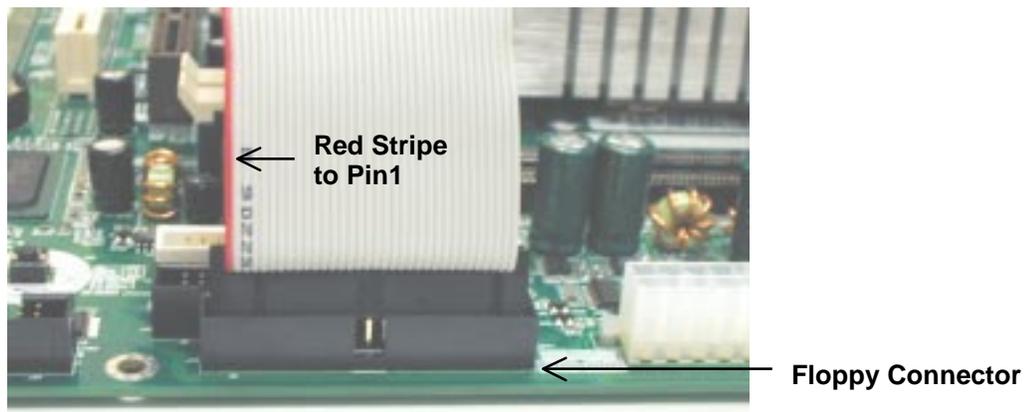


Total Memory Sizes With Unbuffered DDR DIMM

Devices used on DIMM	1 DIMMx64	2 DIMMsx64
64 Mbit (2Mx8x4 banks)	128 MBytes	256 MBytes
64 Mbit (1Mx16x4 banks)	64 MBytes	128 MBytes
128 Mbit (4Mx8x4 banks)	256 MBytes	512 MBytes
128 Mbit (2Mx16x4 banks)	128 MBytes	256 MBytes
256 Mbit (8Mx8x4 banks)	512 MBytes	1 GByte
256 Mbit (4Mx16x4 banks)	256 MBytes	512 MBytes
512 Mbit (16Mx8x4 banks)	1 GByte	2 GBytes
512 Mbit (8Mx16x4 banks)	512 MBytes	1 GByte

Connecting Floppy Disk and IDE Cables

1. **Connecting the floppy disk ribbon cable into the motherboard.** The side of the cable with the red stripe needs to be inserted into the Pin1 side of the floppy disk connector.
2. **Connecting the IDE ribbon cable into the motherboard.** The side of the cable with the red stripe should be inserted into Pin1 side of the IDE connector.

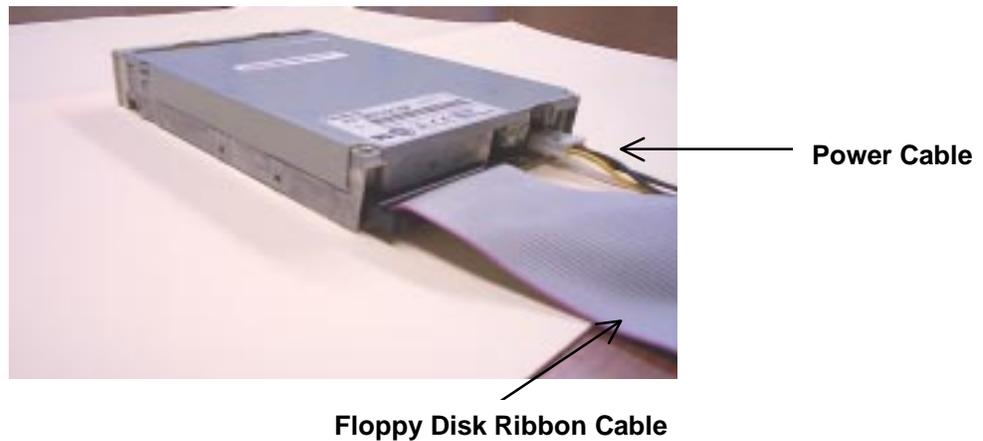


Connect Floppy and IDE Drives

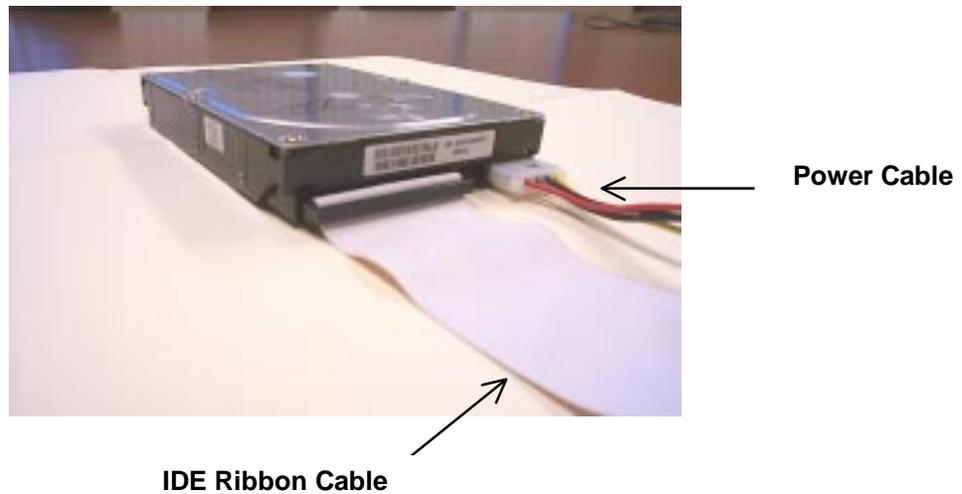
NOTE: If installing two IDE devices on the same ribbon cable, one device is to be set as “master” and the second as “slave”. Please refer to IDE device manuals for master and slave settings.

1. Mount the desired drives into the case.
2. Connect the floppy disk ribbon cable and power cable into the device.
3. Connect the IDE ribbon cable and power cable into the device.

Floppy Disk Drive



Hard Disk Drive



Installing Expansion Cards

1. Read the related expansion card's installation instructions before inserting the expansion card into the motherboard.
2. Remove the slot covers from the chassis case where the expansion cards will be placed.
3. Press the expansion card firmly into the expansion slot of the motherboard.
4. Secure the card with the screw provided.
5. Repeat same procedure when adding additional expansion cards.

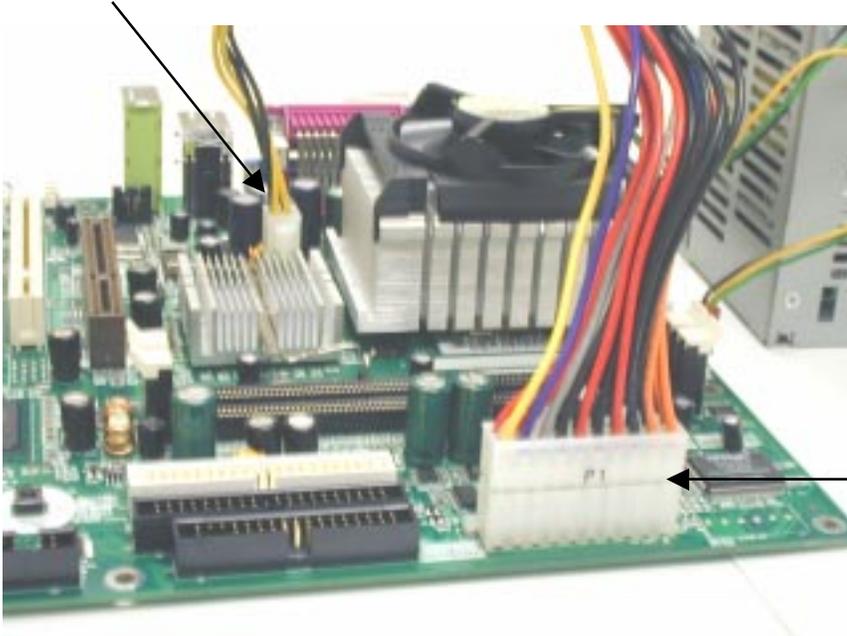


Connect the Power Supply Cables

NOTE: The ATX power connector is keyed for proper insertion.

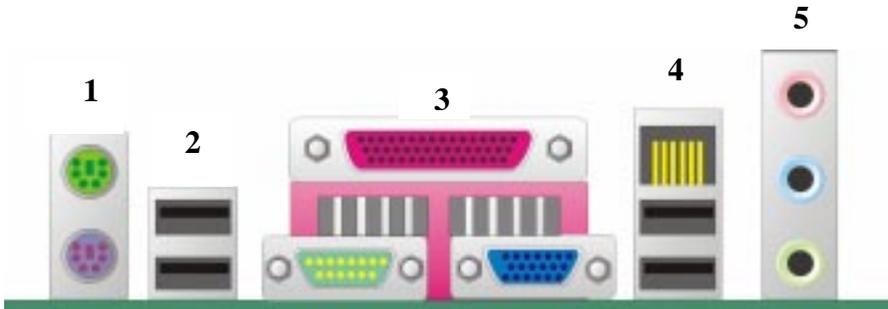
1. Place the plastic clip of the power connector over the plastic tab on the motherboard power connector. The plastic clip should lock into the plastic tab.

Power Supply Connector

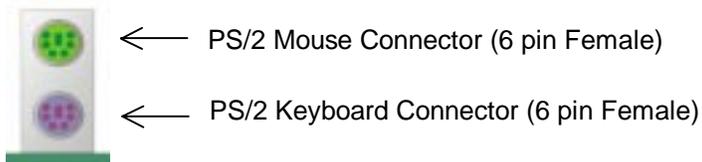


Power Supply Connector

I/O Back Panel Introduction

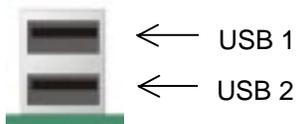


(1) PS/2 Keyboard and PS/2 Mouse Connector



✚ This connector supports standard PS/2 keyboard and PS/2 mouse.

(2) USB Connector

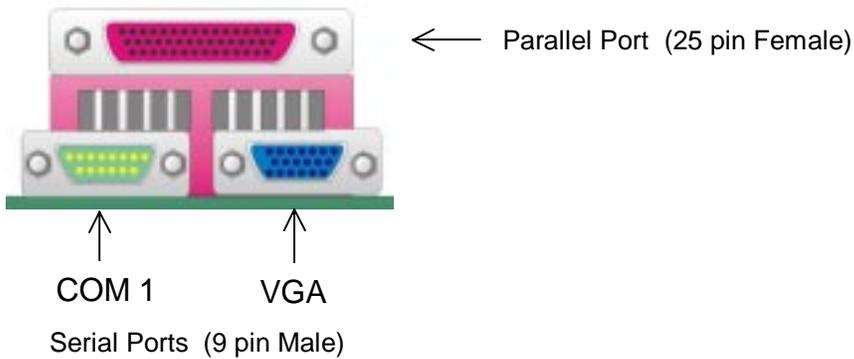


✚ Before connecting device(s) into the USB connections, determine if devices have a standard interface.

✚ Make sure your computer Operating System (OS) supports the USB controller. If not, contact your OS or device(s) vendors for more information.

I/O Back Panel Introduction *cont...*

(3) Parallel Port and Serial Ports (COM1/VGA)



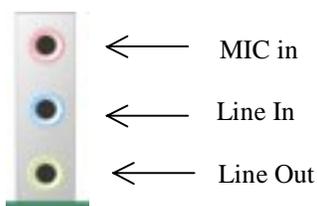
- ✚ This connector supports one standard COM port, 1 Parallel port, and VGA port.
- ✚ Devices (i.e. printer) can be connected into the Parallel port.
- ✚ Devices (i.e. mouse and modem etc.) can be connected into the serial ports.

(4) USB Connector and LAN RJ45



- ✚ On Board LAN function (optional)

(5) Audio Connector



- ✚ Once onboard audio driver has been installed, the speakers may be connected into the Line out jack, audio devices such as CD-ROM etc., and a microphone into the MIC in jack.

Jumper Introduction

Jumper Settings

The following graphic shows the meaning of the jumper with cover and without cover.



FWH Lock

This jumper allows you to set FWH lock.

Reference: JP2
Connector Type: 1 x 3

JP2		Description	Jumper Placement
1-2		FWH Lock	Put the jumper cover on pin1 and pin2.
2-3		FWH Unlock (Default)	Put the jumper cover on pin2 and pin3.

BIOS Configuration

This jumper allows you to set CPU speed.

Reference: JP1
Connector Type: 1 x 3

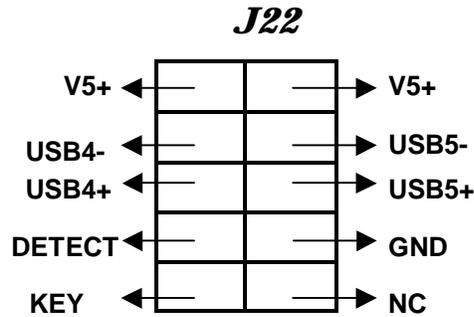
JP1		Description	Jumper Placement
1-2		Normal Mode (Default)	Put the jumper cover on pin1 and pin2.
2-3		BIOS Conf. (save speed)	Put the jumper cover on pin2 and pin3.
OPEN		BIOS Recovery	Remove jumper from JP1.

Jumper Introduction *cont....*

Clear CMOS

This switch (SW1) allows you to clear the content of the CMOS data and password.

Front Side USB Connector Pin Definition

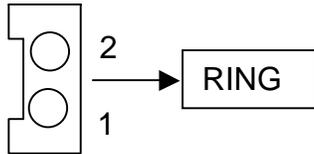


Front Side USB Connector Pin Definition

Pin	Signal Name	Description
1	V5+	Front Side USB Port2 VCC
2	V5+	Front Side USB Port1 VCC
3	USB4-	Front Side USB Port2 Signal-
4	USB5-	Front Side USB Port1 Signal-
5	USB4+	Front Side USB Port2 Signal+
6	USB5+	Front Side USB Port1 Signal+
7	DETECT	USB Appliance Detected
8	GND	Front Side USB Port1 GND
9	KEY	KEY
10	NC	Not Connected

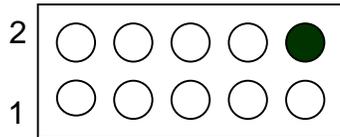
Jumper Introduction *cont....*

Wake On Ring (J36) Pin Definition



Pin	Description
1	RING
2	GND

COM1 (J2) / COM2 (J34) Pin Definition



Pin	Description	Pin	Description
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	KEY

There will be no-pin in position 10 on motherboard.
Cable will have a key in position 10.

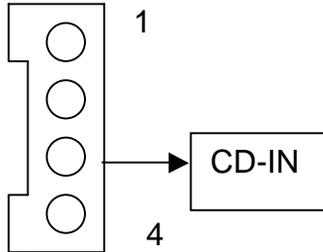
WoL (Wake on LAN, J20) Pin Definition



Pin	Description
1	5VSB
2	GND
3	PME#1

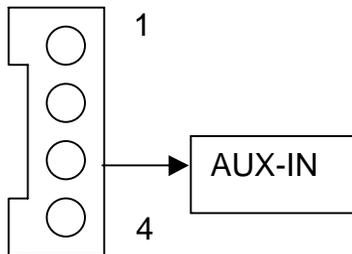
Jumper Introduction *cont....*

CD IN (J12, BLACK) Pin Definition



Pin	Description
1	CD_L
2	GND
3	GND
4	CD_R

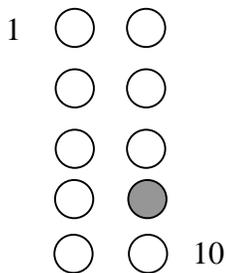
AUX IN (J11, WHITE) Pin Definition



Pin	Description
1	Aux_R
2	GND
3	GND
4	Aux_L

Connector 2mm Pitch.

Front Side Audio header (J7) Pin Definition



Pin	Description
1	MIC In
2	GND
3	AVREF Power
4	+5VA
5	Line out Right
6	Line out Right
7	NC
8	KEY
9	Line out Left
10	Line out Left

Chapter 3 AMI® BIOS Setup

Entering Setup

To enter the setup menu, first power up the computer and press <Delete> key to enter the CMOS setup.

The Main Menu

When you enter the AMI® HIFLEX Setup Utility, the below Main Menu will appear. The Main menu allows you to select and modify your computer system. To navigate through the menu, simply use the arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

AMI HIFLEX SETUP UTILITY - VERSION 1.54 ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED
NR120 BIOS Rev: 0.00.24
Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup
PCI / Plug and Play Setup
Peripheral Setup
Hardware Monitor Setup
Auto-Detect Hard Disks
Change User Password
Change Supervisor Password
Auto Configuration with Optimal Setting
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit without Saving
Standard CMOS setup for changing time, date, hard disk type, etc.
ESC: Exit ↑↓: Sel F2/F3: Color F10: Save and Exit

Standard CMOS Setup

The items listed in the Standard CMOS Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired value for each item.

AMIBIOS SETUP - STANDARD CMOS SETUP										
©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED										
Date (mm/dd/yyyy) : Mon May 06,2001					Base Memory: 639KB					
Time (hh/mm/ss) : 15:23:45					Extd Memory: 119MB					
Floppy Drive A: 1.44 MB 3½										
Floppy Drive B: Not Installed										
						LBA	BLK	PIO	32Bit	
	Type	Size	Cyln	Head	Wpcom	Se Mode	Mode	Mode	Mode	
Pri Master:	Auto									Off
Pri Slave:	Auto									Off
Sec Master:	Auto									Off
Sec Slave:	Auto									Off
Boot Sector Virus Protection: Disabled										
Month: Jan-Dec					ESC: Exit ↑↓: Sel					
Day: 01-31					PgUp/PgDn: Modify					
Year: 1980-2099					F2/F3: Color					

Advanced CMOS Setup

The items listed in the Advanced CMOS Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMIBIOS SETUP - ADVANCED CMOS SETUP ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED		
1st Boot Device	Disabled	Available Options: ESC: Exit ↑↓: Sel PgUp/PgDn: Modify F2/F3: Color
2nd Boot Device	Floppy	
3rd Boot Device	Disabled	
Try Other Boot Devices	Yes	
S.M.A.R.T for Hard Disk	Disabled	
Floppy Drive Seek	Disabled	
System Keyboard	Present	
Password Check	Always	
C000, 32K Shadow	Cached	
C800, 16K Shadow	Disabled	

PCI/Plug and Play Setup

The items listed in the PCI/Plug and Play Setup Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMIBIOS SETUP - PCI/PLUG AND PLAY SETUP ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED		
Primary Graphics Adapter	AGP/Int-VGA	Available Options:
***** Display Setting *****		
Boot Display Device	Auto	
Flat Panel Type	1	
TV Standard	Auto	
Flat Panel Scaling	Auto	
		ESC: Exit ↑↓: Sel
		PgUp/PgDn: Modify
		F2/F3: Color

Hardware Monitor Setup

The items listed in the Hardware Monitor Setup may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMIBIOS SETUP - HARDWARE MONITOR SETUP ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED		
CPU Ratio Selection	Locked	Available Options:
ClkGen Spread Spectrum	Disabled	
== System Hardware Monitor ==		
CPU FAN Speed	3233 RPM	ESC: Exit ↑↓: Sel PgUp/PgDn: Modify F2/F3: Color
Chassis Fan Speed	0 RPM	
Remote Diode Temperature	66°C/150°F	
Ambient Temperature	31°C/87°F	
CPU VID	1.35V	
Vccp	1.717V	
+1.5V	1.501V	
+2.5V	2.548V	
+3.3V	3.423V	
+5.0V	5.202V	
+12.0V	11.875V	
Hvcc (+3.3VSB)	3.250V	
Fan Speed Control	Disabled	
Shutdown Temperature	Disabled	
Chassis Intrusion	Enabled	

Auto-Detect Hard Disk

The items listed in the Auto-Detect Hard Disk Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMIBIOS SETUP - STANDARD CMOS SETUP									
©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED									
Date (mm/dd/yyyy) : Mon May 06, 2001					Base Memory: 639KB				
Time (hh/mm/ss) :					Extd Memory: 127MB				
Floppy Drive A: 1.44 MB 3½									
Floppy Drive B: Not Installed									
						LBA	BLK	PIO	32Bit
	Type	Size	Cyln	Head	Wpcom	Mode	Mode	Mode	Mode
Sec									
Pri Master:	Auto								On
Pri Slave:	Auto								On
Sec Master:	Auto								On
Sec Slave:	Auto								On
Boot Sector Virus Protection: Disabled									
Month: Jan-Dec					ESC: Exit ↑↓: Sel				
Day: 01-31					PgUp/PgDn: Modify				
Year: 1980-2099					F2/F3: Color				

Change User Password

The items listed in the Change User Password Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

```

                AMI HIFLEX SETUP UTILITY - VERSION 1.54
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                NR120 BIOS Rev: 0.00.24

                Standard CMOS Features
                Advanced CMOS Features
                Advanced Chipset Features
                Power Management Setup
                PCI / Plug and Play Setup

                Enter new user password: _

                Change User Password
                Change Supervisor Password
                Auto Configuration with Optimal Setting
                Auto Configuration with Fail Safe Settings
                Save Settings and Exit
                Exit without Saving

                Change user password

                ESC: Exit   ↑↓: Sel   F2/F3: Color   F10: Save and Exit

```

Change Supervisor Password

The items listed in the Change Supervisor Password Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMI HIFLEX SETUP UTILITY - VERSION 1.54 ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED
NR120 BIOS Rev: 0.00.24
Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup
PCI / Plug and Play Setup
Enter new supervisor password: _
Change User Password
Change Supervisor Password
Auto Configuration with Optimal Setting
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit without Saving
Change the supervisor password
ESC: Exit ↑↓: Sel F2/F3: Color F10: Save and Exit

Auto Configuration with Optimal Setting

The items listed in the Auto Configuration with Optimal Setting Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

AMI HIFLEX SETUP UTILITY - VERSION 1.54 ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED
NR120 BIOS Rev: 0.00.24
Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup
PCI / Plug and Play Setup
Load high performing setting (Y/N)? <u>N</u>
Change User Password
Change Supervisor Password
Auto Configuration with Optimal Setting
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit without Saving
Load configuration settings giving highest performance
ESC: Exit ↑↓: Sel F2/F3: Color F10: Save and Exit

Auto Configuration with Fail Safe Settings

The items listed in the Auto Configuration with Fail Safe Settings Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

```
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NR120 BIOS Rev: 0.00.24

Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup
PCI / Plug and Play Setup

Load failsafe settings (Y/N)? N

Change User Password
Change Supervisor Password
Auto Configuration with Optimal Setting
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit without Saving

Load failsafe configuration settings

ESC: Exit  ↑↓: Sel  F2/F3: Color  F10: Save and Exit
```

Save Settings and Exit

The items listed in the Save Settings and Exit Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

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NR120 BIOS Rev: 0.00.24 Standard CMOS Features Advanced CMOS Features Advanced Chipset Features Power Management Setup
Save current settings and exit (Y/N)? <u>Y</u>
Change User Password Change Supervisor Password Auto Configuration with Optimal Setting Auto Configuration with Fail Safe Settings Save Settings and Exit Exit without Saving
Write the current settings to CMOS and exit ESC: Exit ↑↓: Sel F2/F3: Color F10: Save and Exit

Exit without Saving

The items listed in the Exit without Saving Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or <PgDn> keys to select the desired option for each item.

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NR120 BIOS Rev: 0.00.24
Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup
PCI / Plug and Play Setup
Quit without saving (Y/N)? <u>N</u>
Change User Password
Change Supervisor Password
Auto Configuration with Optimal Setting
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit without Saving
Exit without saving the current settings
ESC: Exit ↑↓: Sel F2/F3: Color F10: Save and Exit

NOTES