

# **NA125**

**Intel® 845-E Motherboard**

***USER'S MANUAL***

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

## Revision History

Revision	Date	Description
1.0		Initial release of NA125 motherboard user's manual

## Item Checklist

**1 NA125 Motherboard**

**1 Floppy Cable**

**1 ATA Cable 66/100**

**1 Motherboard Driver CD**

**NA125 User's 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.

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# Chapter 1 Introduction

## Motherboard Specifications

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### Form Factor:

- ATX Form Factor 12" x 9.6" (30.5cm x 24.4cm)
- 

### Processor:

- Supports Intel® Pentium® 4 Willamette and Northwood Processor
  - Processor socket mPGA478B
  - 400 MHz system bus, capable to enhance processor system bus to 533 MHz with Northwood processor
- 

### Super I/O:

- Winbond W83627HF
- 

### System Memory:

- Three DIMM socket support
  - Supports PC200 and PC266 DDR SDRAM
- 

### Clock Generator:

- ICS950220 setting for jumpless
- 

### Audio:

- 3D audio compliant with AC'97 rev. 2.2
  - Realtek ALC202A
- 

### Video:

- External 1.5V 2X/4X AGP Slot
- 

### IDE Ports:

- Two IDE ports to support four devices
  - Supports all PIO modes
  - Support Ultra DMA 33/66/100
-

**BIOS:**

- 4Mbit flash EEPROM
  - AMI® BIOS, PnP, ACPI, SMBIOS v2.3, Boot Block, DMI
  - WfM v.2.0, DMI v2.0, WOL, SMBus support
- 

**Expansion Slots:**

- 1 AGP slot
  - 6 PCI 2.2 slots
  - 1 CNR slot shared with one PCI slot (option)
- 

**Additional Features:**

- Keyboard/Mouse/USB wake up
  - Support S1, S3, S4 and S5 ACPI status
  - Hardware Monitor Capability
  - Optional On Board LAN (Realtek RTL8100B, Support 10/100 Mbps Ethernet)
- 

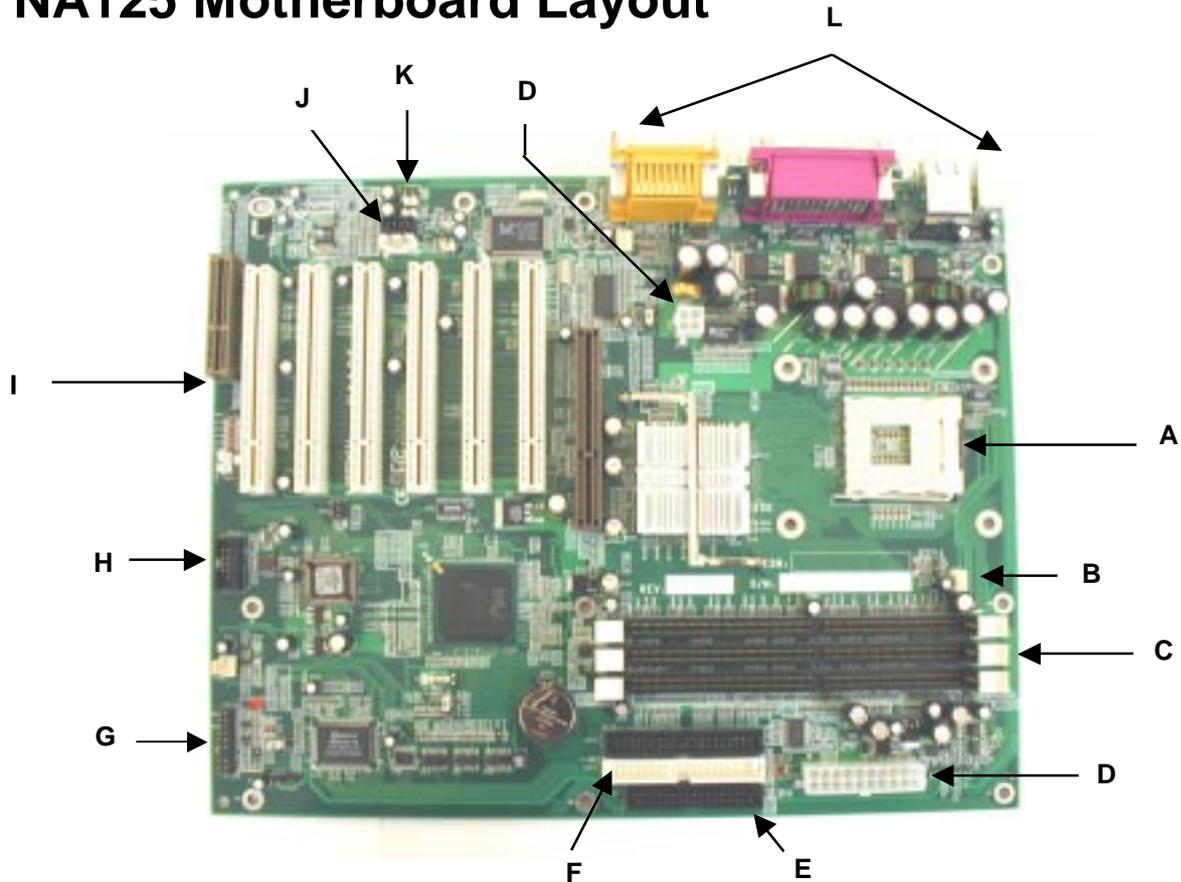
**Rear Side I/O Ports:**

- PS2 Keyboard and Mouse
  - Two USB ports
  - RJ-45 LAN connector (option)
  - Two Serial ports
  - Single Parallel port
  - Single Dual Channel Game port
  - Three Audio Jacks (Line-Out, Line-In, Mic-In)
- 

**On Board I/O Interface:**

- Single ATX and +12V Power Connector
  - Single Floppy Connector
  - Front Panel Connector (Switch, LED, IRDA)
  - Header for front side Line-Out and Mic-In (option)
  - Three Fan Headers for CPU, chassis and system
  - Two ATAPI headers (CD In, AUX In)
  - Header to support two front side USB ports
-

# NA125 Motherboard Layout



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



Front Panel Connector Pin Definition

Pin	Signal Name	I/O	Description
1	HDD LED+	O	Pull up 330ohm to VCC
2	Suspend LED-	O	SUS LED
3	HDD LED-	O	IDEACTP-
4	Suspend LED+	O	Pull up 330ohm to VCC
5	H/W reset-	-	GND
6	Power Button+	I	Pull up 1Kohm to VCC
7	H/W reset+	I	HWRST SW
8	Power Button-	-	PWRBTIN
9	VCC	-	VCC
10	EXT, SMI+	I	Pull up 8.2Kohm to 3.3V
11	IRRX	I	IRRX
12	EXT, SMI-	-	GND
13	GND	-	GND
14	Key	-	Key
15	IRTX	O	IPTX
16	Power LED+	O	VCC
17	CIRRX	-	CIRRX
18	NC	-	NC
19	NC	-	NC
20	Power LED-	-	GND

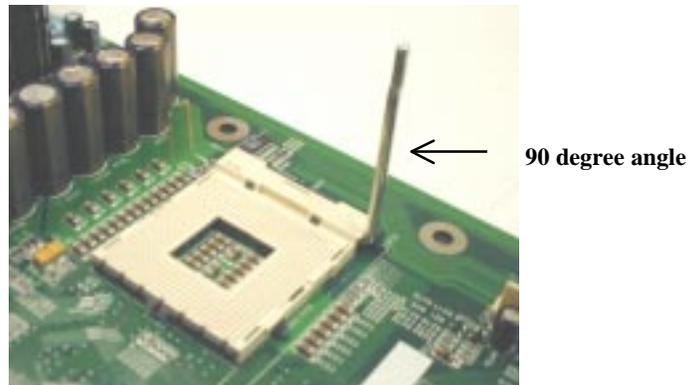
## Chapter 2 Hardware Installation Process

### Installing the Central Process Unit (CPU)

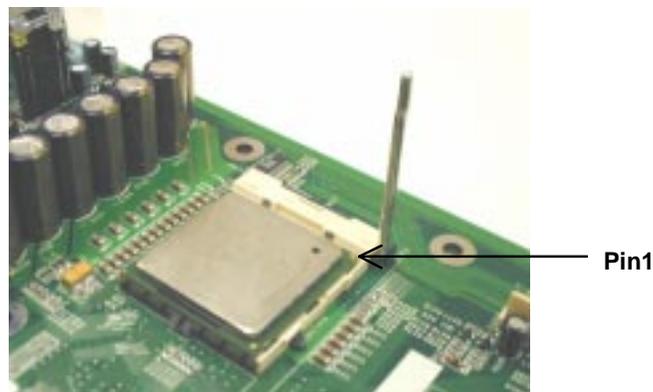
#### CPU Installation

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



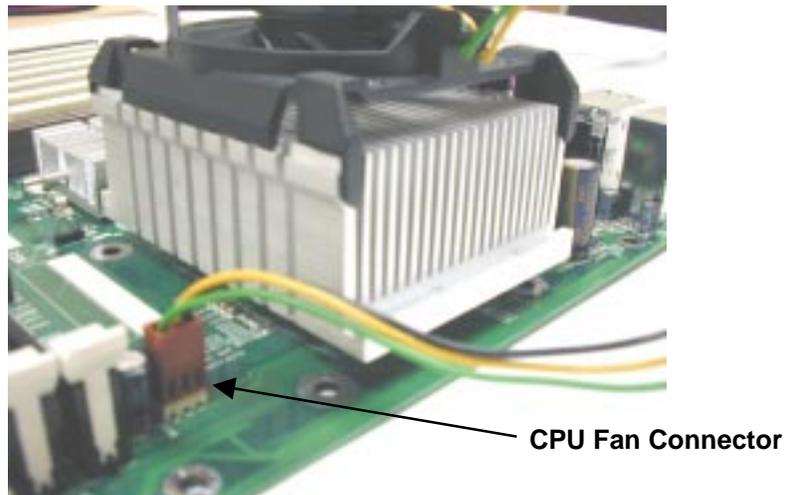
#### Step 2



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

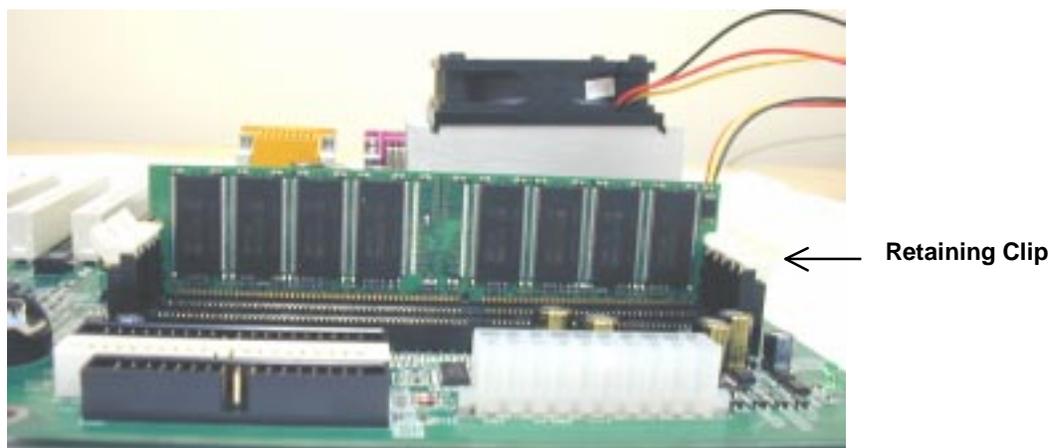
### CPU Heat Sink Installation

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.



Double-sided DDR modules can be plugged into either DIMM2 or DIMM3 only.  
 DIMM2 and DIMM3 only can plug single side DDR (DIMM2: single side, DIMM3: single side)

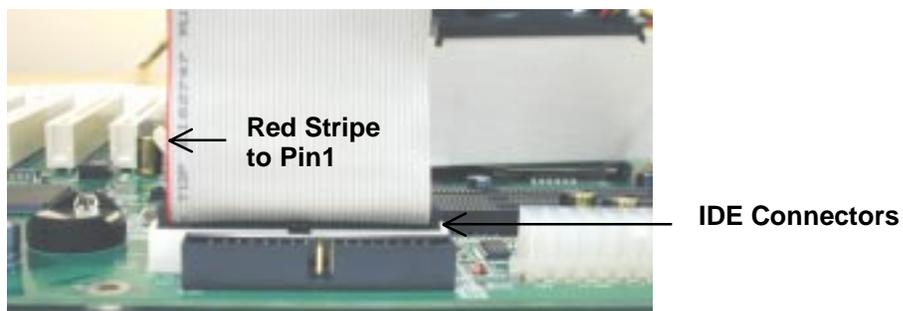
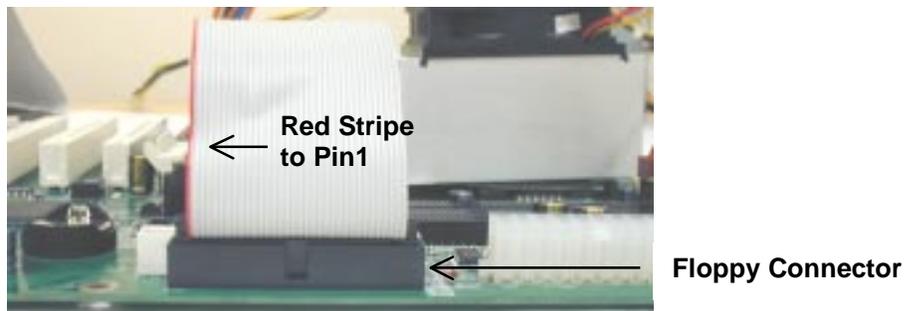
Slot	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
DIMM 1	Single	Double	Single	Double	Single	Double
DIMM 2	Single	Single	Double	Double		
DIMM 3	Single	Single			Double	Double

### 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 and IDE Disk 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.

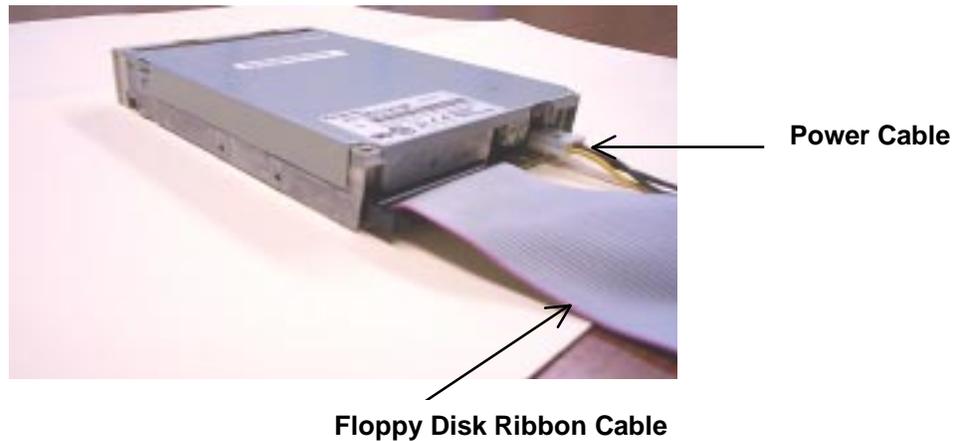


## Connect Floppy and IDE Drives

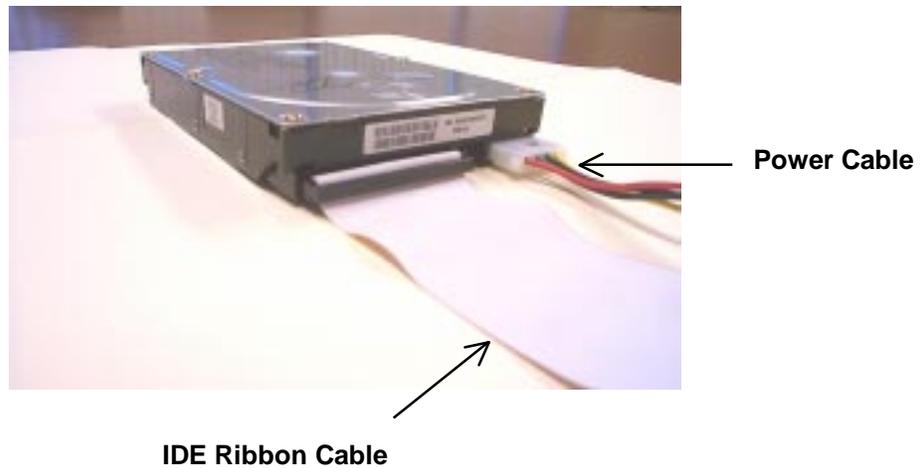
**NOTE:** If installing two IDE devices on the same ribbon cable, one device is to be set as “master” and the second as “slave”. Please refer to IDE device manuals for master and slave settings.

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.

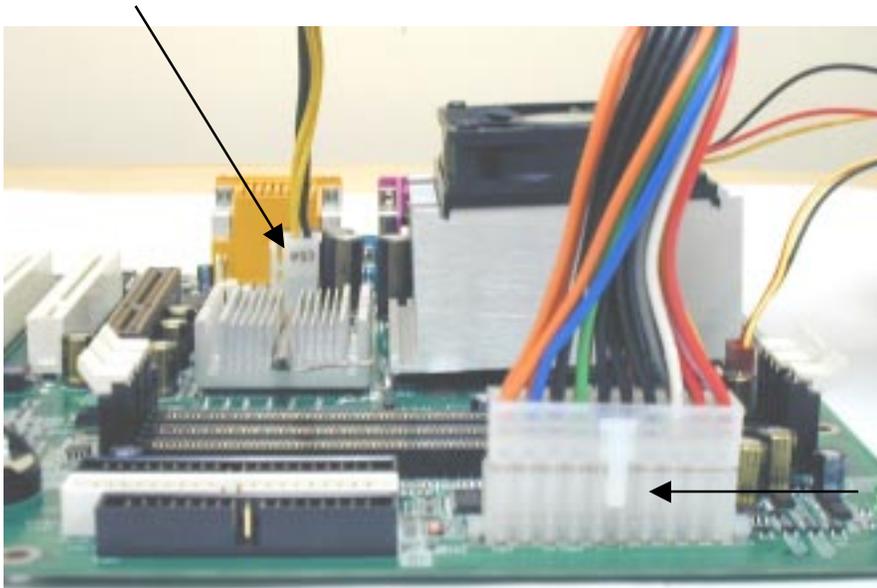


## Connect the Power Supply Cables

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

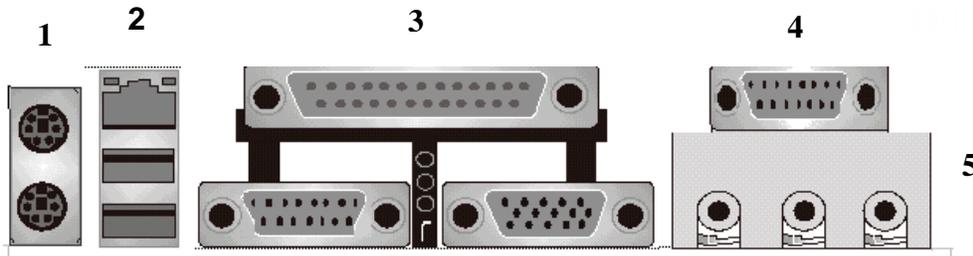
1. Place the plastic clip of the power connector over the plastic tab on the motherboard power connector. The plastic clip should lock into the plastic tab.

**Power Supply Connector**

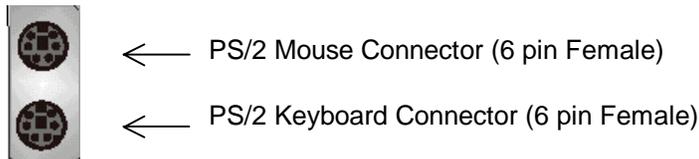


**Power Supply Connector**

## 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.

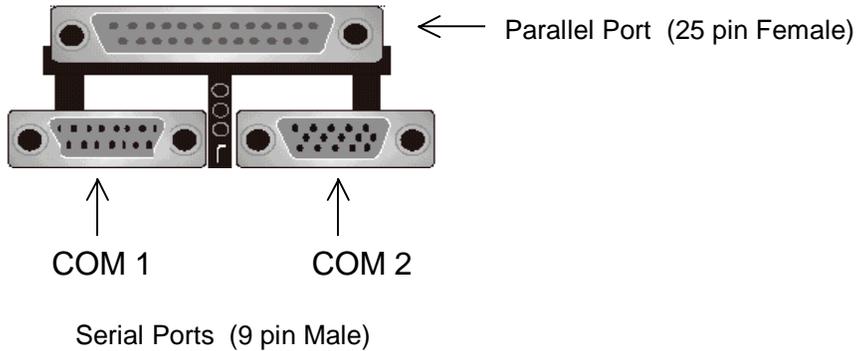
### (2) USB and LAN Connector



- ✚ 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.
- ✚ On Board LAN function (optional)

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

### (3) Parallel Port and Serial Ports (COM1/COM2)



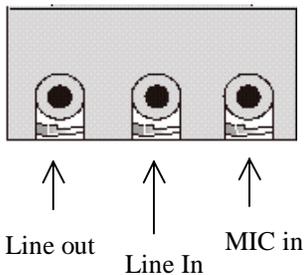
- ✚ This connector supports a 2 COM ports, and Parallel port.
- ✚ Devices (i.e. printer) can be connected into the Parallel port.
- ✚ Devices (i.e. mouse and modem etc. can be connected into the Serial ports).

### (4) Game Port



- ✚ This connector supports joystick, MIDI keyboard and other related audio devices.

### (5) Audio Connectors

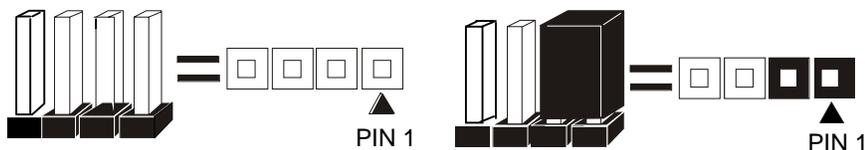


- ✚ Once onboard audio driver has been installed, the speakers may be connected into the Line out jack, audio devices such as CD-ROM etc., and a microphone into the MIC in jack.

## 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: JP4  
 Connector Type: 1 x 3

JP4		Description	Jumper Placement
1-2		BIOS Setting (Default)	Put the jumper cover on pin1 and pin2.
2-3		Lock	Put the jumper cover on pin2 and pin3.
OPEN		Unlock	Remove jumper from JP4.

### BIOS Configuration

This jumper allows you to set CPU speed.

Reference: J1  
 Connector Type: 1 x 4

J1		Description	Jumper Placement
1-2, 3-4		100 MHz	Put the jumper cover on pin1 and pin2. Put the jumper cover on pin3 and pin4.
2-3		Auto (Default)	Put the jumper cover on pin2 and pin3.
OPEN		133MHz	Remove jumper from J1.

## Jumper Introduction *cont....*

### Clear CMOS (Optional)

This jumper allows you to clear the content of the CMOS.

Reference: JP2  
 Connector Type: 1 x 3

JP2		Description	Jumper Placement
1-2		Normal	Put the jumper cover on pin1 and pin2.
2-3		Clear CMOS	Put the jumper cover on pin2 and pin3.

### Onboard LAN

This jumper allows you to set onboard LAN function.

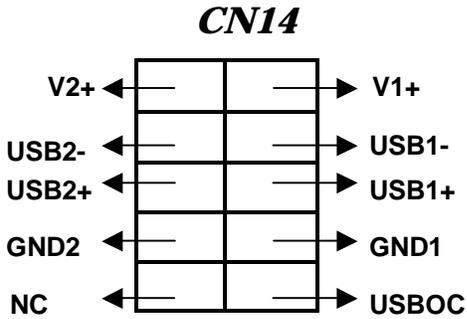
Reference: JP1  
 Connector Type: 1 x 3

JP1		Description	Jumper Placement
1-2		Enable	Put the jumper cover on pin1 and pin2.
2-3		BIOS Setting (Default)	Put the jumper cover on pin2 and pin3.
OPEN		Disable	Remove jumper from JP1.

## Jumper Introduction *cont....*

### Connectors and Headers

#### Front Side USB Connector



**Front Side USB Connector Pin Definition**

Pin	Signal Name	Description
1	Power	Power
2	Power	Power
3	USB p2-	USB p2-
4	USB p3-	USB p3-
5	USB p2+	USB p2+
6	USB p2+	USB p2+
7	GND	GND
8	GND	GND
9	Key	Key
10	NC	NC

## Jumper Introduction *cont....*

### FAN1: System FAN

Pin	Description
1	GND
2	Fan Ctrl (+12V)
3	Fan Sensor

### FAN2: CPU FAN

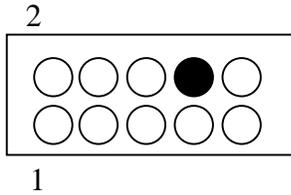
Pin	Description
1	GND
2	Fan Ctrl (+12V)
3	Fan Sensor

### FAN3: Chassis FAN

Pin	Description
1	GND
2	Fan Ctrl (+12V)
3	Unused

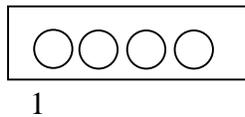
## Jumper Introduction *cont....*

### Front Side Audio header (CN9)



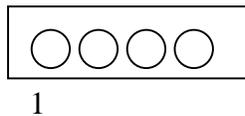
Pin	Description
1	Micro Phone out
2	GND
3	Micro Phone Vref
4	Audio VDD
5	AC97' right out
6	Ph Jack right out
7	NC
8	Key
9	AC97' left out
10	Ph Jack left out

### CD IN (CN10, BLACK)



Pin	Description
1	Right
2	GND
3	GND
4	Left

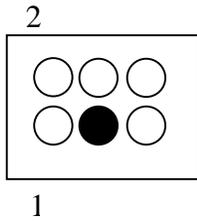
### AUX IN (CN11, WHITE)



Pin	Description
1	Right
2	GND
3	GND
4	Left

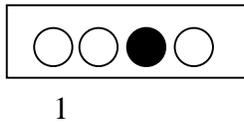
## Jumper Introduction *cont....*

### SBLINK (CN12)



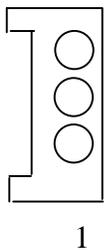
Pin	Description
1	GNT
2	GND
3	NO-PIN (KEY)
4	REQ
5	GND
6	Ser IRQ

### SPEAKER (CN13)



Pin	Description
1	Signal +
2	Signal -
3	NC
4	Signal -

### Wake On Ring/LAN (CN15)



Pin	Description
1	Power
2	GND
3	Signal

## 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

NR125 BIOS Rev: 0.00.10

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) : Wed Nov 28, 2001					Base Memory: 639KB				
Time (hh/mm/ss) :					Extd Memory: 127MB				
Floppy Drive A:									
Floppy Drive B:									
	Type	Size	Cyln	Head	Wpcom	LBA Se Mode	BLK Mode	PIO Mode	32Bit Mode
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					F1:Help 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		
Quick Boot	Enabled	Available Options:
1st Boot Device	Disabled	
2nd Boot Device	Floppy	
3rd Boot Device	Disabled	
Try Other Boot Devices	Yes	
Floppy Drive Swap	Disabled	
Floppy Drive Seek	Disabled	
System Keyboard	Present	
Password Check	Setup	
C000, 32K Shadow	Cached	
C800, 16K Shadow	Disabled	
CC00, 16K Shadow	Disabled	
D000, 16K Shadow	Disabled	
D400, 16K Shadow	Disabled	
D800, 16K Shadow	Disabled	
DC00, 16K Shadow	Disabled	
		ESC: Exit    ↑↓: Sel
		PgUp/PgDn: Modify
		F1:Help F2/F3: Color

## Advanced Chipset Setup

The items listed in the Advanced Chipset 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 - ADVANCED CHIPSET SETUP ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED	
***** DRAM Timing *****	
SDRAM Frequency	Auto
Configure SDRAM Timing by SPD	Enabled
SDRAM CAS# Latency	2.5 clocks
SDRAM RAS# Precharge	3 clocks
SDRAM RAS# to CAS# Delay	3 clocks
SDRAM Precharge Delay	7 clocks
SDRAM Idle Timer	Infinite
SDRAM Read Thermal Management	Disable
DRAM Integrity Mode	Disable
Memory Hole	Disable
APIC Interrupt Mode	Enabled
MPS Revision	1.1
AGP Aperture Size	64MB
USB Controller	6 USB Ports
USB 1.1 Device Legacy Support	Disable
USB 1.1 Port 64/60 Emulation	Disable
Available Options:  ESC: Exit    ↑↓: Sel PgUp/PgDn: Modify F1:Help 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:
---= System Hardware Monitor =---		
Chassis Intrusion	Enabled	
Shutdown Temperature	Disabled	
Current CPU Temperature	51°C/123°F	
Current System Temperature	35°C/95°F	
Current CPU Fan Speed	0 RPM	
Current Chassis Fan Speed	0 RPM	
Current Power Fan Speed	0 RPM	
Vcore	1.440 V	
VTT	1.488V	
Vio	3.312 V	
Battery	0.032V	
+5V SB	4.969 V	
		ESC: Exit    ↑↓: Sel
		PgUp/PgDn: Modify
		F1: Help F2/F3: Color

### 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) : Wed Nov 28,2001					Base Memory: 639KB				
Time (hh/mm/ss) :					Extd Memory: 127MB				
Floppy Drive A:									
Floppy Drive B:									
						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					F1: Help 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 ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED
NR125 BIOS Rev: 0.00.10
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
NR125 BIOS Rev: 0.00.10
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.

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NR125 BIOS Rev: 0.00.10
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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                NR125 BIOS Rev: 0.00.10

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

                Load failsafe settings (Y/N)? N

                Change Supervisor 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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NR125 BIOS Rev: 0.00.10  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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NR125 BIOS Rev: 0.00.10  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**