# **NA115**

# Intel® 845 Motherboard

# USER'S MANUAL

# **Revision History**

Revision	Date	Description	
1.0		Initial release of NA115 motherboard user's manual	

# **Item Checklist**

- 1 NA115 Motherboard
- 1 Floppy Cable
- 1 ATA Cable 66/100
- 1 I/O Shield
- 1 Heatsink Retention Module
- 1 CD for Motherboard Driver

**NA115 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 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**

#### Form Factor:

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

#### Processor:

- Socket mPGA478B
- Intel® Pentium® 4 Willamette/Northwood.

#### System Memory:

- 2 DIMM Sockets support up to 2GB.
- Support PC200/PC266 (PC1600/ PC2100) DDR SDRAM.

#### Core Logic Chipset:

- Intel® GMCH 82845 (Graphics and Memory Controller Hub).
- Intel® ICH2 82801BA (I/O Controller Hub).

#### PCI bus:

• PCI 2.2 compliant

#### Audio/Video:

- 3D audio compliant with AC'97 revision 2.1 specification.
- ADI AD1885 CODEC.
- External 1.5V AGP slot. AGP 2.0 compliant.

#### BIOS:

- 2Mbit flash EEPROM
- AMI® BIOS, PnP, ACPI, SMBIOS 2.3, Boot Block, DMI

#### IDE Ports:

- Promise PDC20265R ATA-100 RAID controller
- 4 IDE ports support up to 8 devices
- Support Ultra DMA 33/66/100

#### On Board I/O:

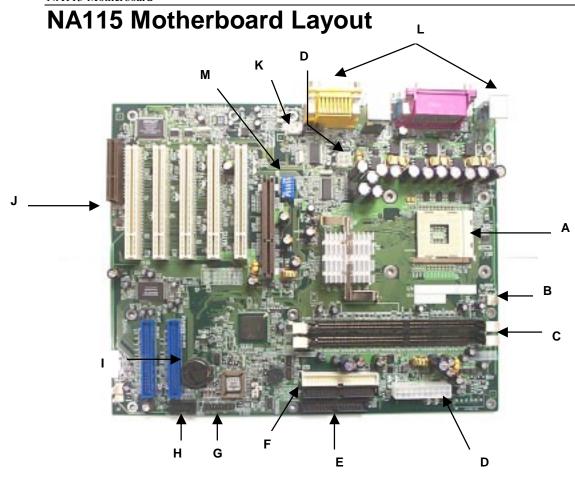
- ATX power connector.
- +12V power connector.
- Aux power connector (option).
- · Floppy connector.
- Front panel connector (Switch, LED, IRDA).
- Header to support two USB ports at front side.
- Header for front side LINE-OUT and MIC-IN (option).
- 3 Fan headers for CPU, chassis and system.
- ATAPI headers (CD IN, AUX IN).
- Header for chassis intrusion (option)
- Header for MONO-OUT (option)

#### Additional Features:

- · Hardware monitor capability.
- · Keyboard/Mouse/USB wake up function.
- Supports S1, S3, S4 and S5 ACPI states.

#### **Expansion Slots:**

- 1 AGP slot.
- 5 PCI slots.
- 1 CNR slot shared with one PCI slot.



Α	CPU Socket	Н	Front Side USB
В	CPU Fan Socket	ı	ATA-100 Raid IDE Connector
С	Memory Sockets	J	Expansion Slots
D	Power Supply Connector	K	Audio Connector
Е	Floppy Connector	L	Back Panel Connectors
F	IDE Connectors	M	Front Side Bus Frequency Selector
G	Front Panel Connector		



Front Panel Connector Pin Definition

Pin	Signal Name	I/O	Description
1	HD_PWR	0	Hard Disk LED pull-up to VCC
2	HDR_BLNK_GRN	0	Front panel Green LED signal
3	HDA*	О	Hard Disk Active LED signal
4	HDR_BLNK_YEL	О	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	VCC	О	
10	FPSLP*	I	Front panel sleep button signal
11	IRRX	I	IRDA serial input
12	GND	-	Ground
13	GND	-	Ground
14	KEY	-	KEY
15	IRTX	О	IRDA serial output
16	VCC	О	
17	NC	-	not connected
18	NC	-	not connected

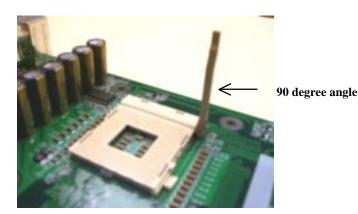
# **Chapter 2 Hardware Installation Process**

## **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



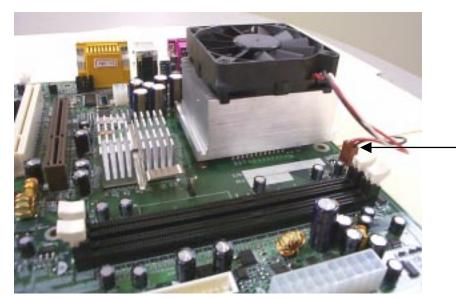
### Step 2



# Installing the Central Process Unit (CPU) cont.

#### CPU Heat Sink Installation

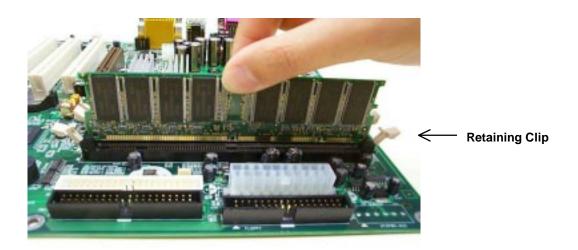
- 1. Read the related CPU heat sink user's manual for more detailed installation procedures.
- 2. Connect CPU fan power cable into the CPU fan connector on the motherboard.



**CPU Fan Connector** 

# **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.

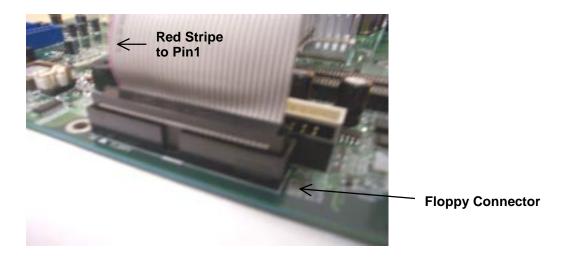


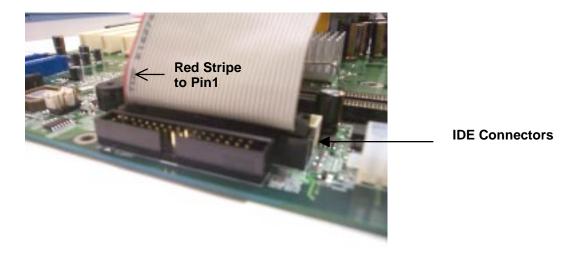
### **Total Memory Sizes With Unbuffered DDR DIMM**

Devices used on DIMM	1 DIMMx64/x72	2 DIMMsx64/x72
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 IDE and Floppy 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 <u>Pin1</u> 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 <u>Pin1</u> side of the IDE connector.



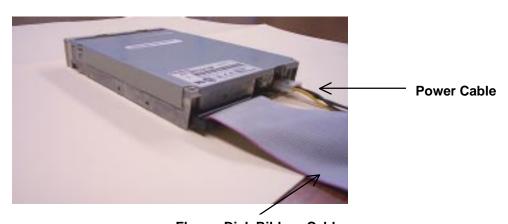


# **Connect Floppy and IDE Drives**

**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.

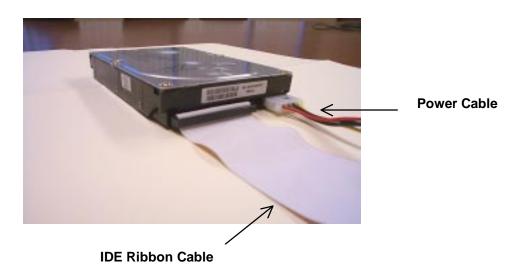
- 1. Mount the desired drives into the case.
- 2. Connect the floppy disk ribbon cable and power cable into the device.
- 3. Connect the IDE ribbon cable and power cable into the device.

### **Floppy Disk Drive**



Floppy Disk Ribbon Cable

#### **Hard Disk Drive**



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# **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.

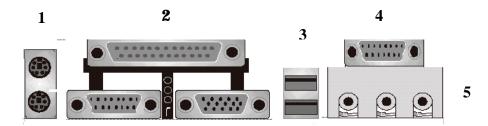
1. Place the plastic clip of the power connector over the plastic tab on the motherboard power connector. The plastic clip should lock into the plastic tab.

### **Power Supply Connector**

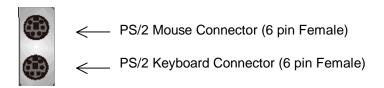


**Power Supply Connector** 

## I/O Back Panel Introduction

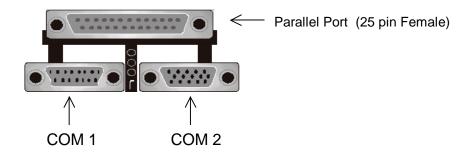


#### (1) PS/2 Keyboard and PS/2 Mouse Connector



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

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

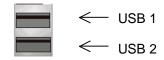


Serial Ports (9 pin Male)

- ♣ This connector supports 2 standard COM ports and 1 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.

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

#### (3) USB Connector



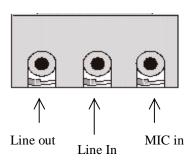
- Before connecting device(s) into the USB connections, determine if devices have a standard interface.
- Make sure your computer Operating System (OS) supports the USB controller. If not, contact your OS or device(s) vendors for more information.

#### (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: 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: JP3 Connector Type: 1 x 3

JP3		Description	Jumper Placement
1-2	<b>&gt;</b> • • • • • • • • • • • • • • • • • • •	Normal Mode (Default)	Put the jumper cover on pin1 and pin2.
2-3	<b>-</b>	BIOS Conf. (save speed)	Put the jumper cover on pin2 and pin3.
OPEN	<b>&gt;</b>	BIOS Recovery	Remove jumper from JP5.

# Jumper Introduction cont.

### **Clear CMOS (Optional)**

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

Reference: JP1 Connector Type: 1 x 3

JP1	Description	Jumper Placement
1-2	Normal	Put the jumper cover on pin1 and pin2.
2-3	Clear content of CMOS	Put the jumper cover on pin2 and pin3.

#### **Clear Password**

This jumper allows you to clear the password of the BIOS.

Reference: JP4 Connector Type: 1 x 3

00111100	tor rypo.	1 7 0	
JP4		Description	Jumper Placement
1-2		Normal (Default)	Put the jumper cover on pin1 and pin2.
2-3		Clear BIOS password	Put the jumper cover on pin2 and pin3.

# Jumper Introduction cont.

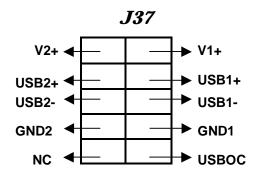
The following table shows the Front Side Bus Frequency Selector settings.

Front Side Bus Frequency Selector

100MHZ	FSB SELECT	SEL1	SEL2	SEL3	SEL4	SEL5	SEL6
102MHZ	AUTO	OFF	OFF	OFF	OFF	OFF	OFF
105MHZ	100MHZ	ON	OFF	ON	OFF	OFF	OFF
108MHZ	102MHZ	ON	ON	ON	ON	ON	ON
111MHZ         ON         OFF         OFF         ON         ON         ON           114MHZ         ON         ON         ON         OFF         ON         ON           117MHZ         ON         OFF         ON         ON         ON         ON           120MHZ         ON         ON         OFF         OFF         ON         ON           123MHZ         ON         OFF         OFF         OFF         ON         ON           130MHZ         ON         OFF         ON         ON         OFF         ON           133MHZ         ON         OFF         OFF         OFF         OFF         OFF           136MHZ         ON         OFF         OFF         OFF         OFF         ON           140MHZ         ON         OFF         OFF         ON         OFF         ON           144MHZ         ON         OFF         OFF         ON         OFF         ON           148MHZ         ON         OFF         OFF         OFF         OFF         ON           156MHZ         ON         OFF         OFF         OFF         OFF         ON           160MHZ         ON	105MHZ	ON	OFF	ON	ON	ON	ON
114MHZ         ON         ON         OFF         ON         ON           117MHZ         ON         OFF         ON         OFF         ON         ON           120MHZ         ON         ON         OFF         OFF         ON         ON         ON           123MHZ         ON         OFF         OFF         OFF         ON         ON         ON           126MHZ         ON         ON         ON         ON         OFF         ON         ON         OFF         ON           130MHZ         ON         OFF         ON         ON         OFF         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         ON         ON         ON         OFF         ON         <	108MHZ	ON	ON	OFF	ON	ON	ON
117MHZ         ON         OFF         ON         OFF         ON         ON           120MHZ         ON         ON         OFF         OFF         ON         ON         ON           123MHZ         ON         OFF         OFF         OFF         ON         ON         ON           126MHZ         ON         ON         ON         ON         OFF         ON         ON         OFF         ON           130MHZ         ON         OFF         ON         ON         OFF         ON         OFF         ON           133MHZ         ON         OFF         ON         ON         OFF         ON         OFF         ON	111MHZ	ON	OFF	OFF	ON	ON	ON
120MHZ         ON         ON         OFF         OFF         ON         ON           123MHZ         ON         OFF         OFF         OFF         ON         ON           126MHZ         ON         ON         ON         ON         OFF         ON           130MHZ         ON         OFF         ON         ON         OFF         ON           133MHZ         ON         OFF         OFF         OFF         OFF         OFF           136MHZ         ON         ON         OFF         ON         OFF         OFF           140MHZ         ON         ON         OFF         ON         OFF         ON           144MHZ         ON         ON         ON         OFF         OFF         ON           148MHZ         ON         OFF         ON         OFF         OFF         ON           152MHZ         ON         ON         OFF         OFF         OFF         ON           156MHZ         ON         ON         ON         ON         ON         ON         OFF           160MHZ         ON         ON         ON         ON         ON         ON         ON	114MHZ	ON	ON	ON	OFF	ON	ON
123MHZ         ON         OFF         OFF         OFF         ON         ON           126MHZ         ON         ON         ON         OFF         ON         ON         OFF         ON           130MHZ         ON         OFF         ON         ON         OFF         ON         OFF         ON           133MHZ         ON         OFF         ON         OFF         ON         ON         OFF         ON         O	117MHZ	ON	OFF	ON	OFF	ON	ON
126MHZ         ON         ON         ON         ON         OFF         ON           130MHZ         ON         OFF         ON         ON         OFF         ON           133MHZ         ON         OFF         OFF         OFF         OFF         OFF           136MHZ         ON         ON         OFF         ON         OFF         ON           140MHZ         ON         OFF         OFF         ON         OFF         ON           144MHZ         ON         ON         OFF         OFF         OFF         ON           148MHZ         ON         OFF         ON         OFF         OFF         ON           152MHZ         ON         ON         OFF         OFF         OFF         ON           156MHZ         ON         ON         ON         ON         ON         ON         OFF           166MHZ         ON         ON         ON         ON         ON         OFF           175MHZ         ON         ON         ON         ON         ON         ON	120MHZ	ON	ON	OFF	OFF	ON	ON
130MHZ         ON         OFF         ON         ON         OFF         ON           133MHZ         ON         OFF         OFF         OFF         OFF         OFF           136MHZ         ON         ON         OFF         ON         OFF         ON           140MHZ         ON         OFF         OFF         ON         OFF         ON           144MHZ         ON         ON         ON         OFF         OFF         OF         ON           148MHZ         ON         OFF         ON         OFF         OFF         OFF         ON           152MHZ         ON         ON         OFF         OFF         OFF         ON           156MHZ         ON         OFF         OFF         OFF         OFF         ON           160MHZ         ON         ON         ON         ON         ON         ON         OFF           164MHZ         ON         OFF         ON         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         ON         OFF           170MHZ         ON         ON         ON         ON         ON	123MHZ	ON	OFF	OFF	OFF	ON	ON
133MHZ         ON         OFF         ON         OFF         ON         ON	126MHZ	ON	ON	ON	ON	OFF	ON
136MHZ         ON         ON         OFF         ON         OFF         ON           140MHZ         ON         OFF         OFF         ON         OFF         ON           144MHZ         ON         ON         ON         OFF         OFF         ON           148MHZ         ON         OFF         ON         OFF         OFF         OFF         ON           152MHZ         ON         ON         ON         OFF         OFF         OFF         ON           156MHZ         ON         OFF         OFF         OFF         OFF         ON         ON         OFF           160MHZ         ON         ON         ON         ON         ON         OFF         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	130MHZ	ON	OFF	ON	ON	OFF	ON
140MHZ         ON         OFF         OFF         ON         OFF         ON           144MHZ         ON         ON         ON         OFF         OFF         ON           148MHZ         ON         OFF         ON         OFF         OFF         OFF         ON           152MHZ         ON         ON         ON         OFF         OFF         OFF         ON         ON         ON         ON         ON         ON         ON         ON         ON         OFF         ON         ON         OFF         OFF         OFF         OFF         OFF         ON         ON         OFF         OFF         ON         ON         OFF         OFF         ON         ON         OFF         OFF         ON         ON         OFF         ON         ON         OFF	133MHZ	ON	OFF	OFF	OFF	OFF	OFF
144MHZ         ON         ON         ON         OFF         OFF         ON           148MHZ         ON         OFF         ON         OFF         OFF         ON           152MHZ         ON         ON         OFF         OFF         OFF         OFF         ON           156MHZ         ON         ON         ON         ON         ON         ON         ON         OFF         ON         ON         OFF         ON         ON         OFF         OFF         OFF         ON         OFF         OFF         ON         OFF         OFF         ON         OFF         OFF         OFF         ON         OFF         OFF         OFF         ON         OFF         OFF         ON         OFF         OFF         ON         OFF         OFF         OFF         ON         OFF         OFF         ON         OFF         OFF         OFF         ON         OFF         OFF         OFF         OFF         OFF         OFF         OFF         OFF         OFF	136MHZ	ON	ON	OFF	ON	OFF	ON
148MHZ         ON         OFF         ON         OFF         OFF         ON           152MHZ         ON         ON         OFF         OFF         OFF         OFF         ON           156MHZ         ON         OFF         OFF         OFF         OFF         ON           160MHZ         ON         ON         ON         ON         ON         OFF           164MHZ         ON         OFF         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         OFF         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF         OFF	140MHZ	ON	OFF	OFF	ON	OFF	ON
152MHZ         ON         ON         OFF         OFF         OFF         ON           156MHZ         ON         OFF         OFF         OFF         OFF         ON           160MHZ         ON         ON         ON         ON         ON         OFF           164MHZ         ON         OFF         ON         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	144MHZ	ON	ON	ON	OFF	OFF	ON
156MHZ         ON         OFF         OFF         OFF         ON           160MHZ         ON         ON         ON         ON         ON         OFF           164MHZ         ON         OFF         ON         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	148MHZ	ON	OFF	ON	OFF	OFF	ON
160MHZ         ON         ON         ON         ON         OFF           164MHZ         ON         OFF         ON         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	152MHZ	ON	ON	OFF	OFF	OFF	ON
164MHZ         ON         OFF         ON         ON         OFF           166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	156MHZ	ON	OFF	OFF	OFF	OFF	ON
166MHZ         ON         ON         OFF         ON         ON         OFF           170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	160MHZ	ON	ON	ON	ON	ON	OFF
170MHZ         ON         OFF         OFF         ON         ON         OFF           175MHZ         ON         ON         ON         OFF         ON         OFF	164MHZ	ON	OFF	ON	ON	ON	OFF
175MHZ ON ON ON OFF ON OFF	166MHZ	ON	ON	OFF	ON	ON	OFF
	170MHZ	ON	OFF	OFF	ON	ON	OFF
	175MHZ	ON	ON	ON	OFF	ON	OFF
180MHZ   ON   OFF   ON   OFF   ON   OFF	180MHZ	ON	OFF	ON	OFF	ON	OFF
		ON	ON	OFF	OFF	ON	OFF
190MHZ ON OFF OFF OF ON OFF	190MHZ	ON	OFF	OFF	OFF	ON	OFF
200MHZ ON ON OFF OFF OFF	200MHZ	ON	ON	OFF	OFF	OFF	OFF

# Jumper Settings cont.

The following table shows the Front Side USB Connector Pin Definition.



Front Side USB Connector Pin Definition

Pin	Signal Name	Description
1	V2+	Front Side USB Port2 VCC
2	V1+	Front Side USB Port1 VCC
3	USB2+	Front Side USB Port2
		Signal+
4	USB1+	Front Side USB Port1
		Signal+
5	USB2-	Front Side USB Port2
		Signal-
6	USB1-	Front Side USB Port1
		Signal-
7	GND2	Front Side USB Port2 GND
8	GND1	Front Side USB Port1 GND
9	NC	No Connect
10	USBOC	USB Over-Current Detect

### **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 1.38 ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED

NA115 BIOS Rev: 0.00.02

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.

©2001	AMIBIOS SETUP - STANDARD CMOS SETUP AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED	
Date (mm/dd/yyyy) Time (hh/mm/ss):	: Wed Nov 28,2001 Base Memory: 639 Extd Memory: 127	
Floppy Drive A: Floppy Drive B:		
Type Pri Master: Auto Pri Slave: Auto Sec Master: Auto Sec Slave: Auto		-
Boot Sector Virus	Protection: Disabled	
Month: Jan-Dec Day: 01-31 Year: 1980-2099	ESC: Exit ↑↓: S PgUp/PgDn: Modif 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:
2nd Boot Device	Floppy	
3rd Boot Device	Disabled	
Try Other Boot Devices	Yes	
S.M.A.R.T for Hard Disk	Disabled	
BootUp Num-Lock	On	
Floppy Drive Seek	Disabled	
Primary Display	VGA/EGA	
Password Check	Setup	
Boot To OS/2	No	
CPU MicroCode Updation	Enabled	
C000, 32K Shadow	Cached	
C800, 16K Shadow	Disabled	
CC00, 16K Shadow	Disabled	
D000, 16K Shadow	Disabled	
D400, 16K Shadow	Disabled	ESC: Exit ↑↓: Sel
D800, 16K Shadow	Disabled	PgUp/PgDn: Modify
DC00, 16K Shadow	Disabled	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			
SDRAM Idle Timer	Infinite	Available Options:	
SDRAM Read Thermal Management	Disabled		
DRAM Integrity Mode	Disabled		
Memory Hole	Disabled		
AGP Aperture Size	64MB		
USB Controller	Enabled		
USB Device Legacy Support	All Device		
Port 64/60 Emulation	Disabled		
		ESC: Exit ↑↓: Sel	
		PgUp/PgDn: Modify	
		F2/F3: Color	

### **Power Management Setup**

The items listed in the Power Management 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 - POWER MANAGEMENT SETUP ©2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED			
ACPI Standby State	S3/STR	Available Options:	
Re-Call VGA BIOS at S3 Resuming	Disabled		
Power Management/APM	Enabled		
Video Power Down Mode	Suspend		
Hard Disk Power Down Mode	Standby		
Standby Time Out (Minute)	Disabled		
Suspend Time Out (Minute)	Disabled		
Throttle Slow Clock Ratio	50.0%		
Fan Speed Control	50°C ~ 65°C		
CPU Fan's Duty Cycle	100%		
SYS Fan's Duty Cycle	100%		
Power Button Function	On/Off		
Restore on AC/Power Loss	Last State		
Resume on Ring	Disabled		
Resume on LAN	Disabled		
Resume On PME	Disabled		
Resume On RTC Alarm	Disabled		
Resume Alarm Date	15		
Resume Alarm Hour	12	ESC: Exit ↑↓: Sel	
RTC Alarm Minute	30	PgUp/PgDn: Modify	
RTC Alarm Second	30	F2/F3: Color	

# 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			
Plug and Play Aware O/S	No	Available Options:	
Clear NVRAM	No		
PCI Latency Timer (PCI Clocks)	32		
Primary Graphics Adapter	AGP		
PCI IDE BusMaster	Enabled		
OffBoard PCI IDE Card	Auto		
OffBoard PCI IDE Primary IRQ	Disabled		
OffBoard PCI IDE Secondary IRQ	Disabled		
		ESC: Exit ↑↓: Sel	
		PgUp/PgDn: Modify	
		F2/F3: Color	

### **Peripheral Setup**

The items listed in the Peripheral 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 - I ©2001 AMERICAN MEGATRENDS,		
OnBoard IDE	Both	Available Options:
OnBoard AC'97	Auto	
OnBoard FDC	Auto	
OnBoard Serial PortA	Auto	
OnBoard Serial PortB	Auto	
Serial PortB Mode	Normal	
IR Duplex Mode	Half Duplex	
IR Receiver Polarity	Active Low	
IR Xmitter Polarity	Active Low	
OnBoard Parallel Port	Auto	
Parallel Port Mode	ECP	
Parallel Port IRQ	Auto	
Parallel Port DMA Channel	Auto	
OnBoard Game Port	200h	
OnBoard Midi Port	290h	
Midi IRQ Select	5	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	15.0x	Available Options:
CPU Volt Control	Auto	
== System Hardware Monitor ==		
Chassis Intrusion	Disabled	
CPU Temperature	51°C/123°F	
System Temperature	35°C/95°F	
CPU Fan Speed	0 RPM	
Chassis Fan Speed	0 RPM	
Vccp	1.717V	
+1.5V	1.501V	
+1.8V	1.806V	
+3.3V	3.423V	
+5.0V	5.202V	
+12.0V	11.875V	
Hvcc (+3.3VSB)	3.351V	
		ESC: Exit ↑↓: Sel
		PgUp/PgDn: Modify
		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 N	Memory: 639KB		
Time (hh/mm/ss) : Extd N	Memory: 127MB		
Floppy Drive A:			
Floppy Drive B:			
	BLK PIO 32Bit Mode Mode Mode		
Pri Master:	On		
Pri Slave:	On		
Sec Master:	On		
Sec Slave:	On		
Boot Sector Virus Protection: Disabled			
Month: Jan-Dec ESC: F	Exit ↑↓: Sel		
Day: 01-31 PgUp/F	PgDn: Modify		
Year: 1980-2099 F2/F3:	: Color		

### **Change User Password**

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.

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NA115 BIOS Rev: 0.00.02

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

Enter the new 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.

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NA115 BIOS Rev: 0.00.02

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  $\uparrow\downarrow$ : 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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NA115 BIOS Rev: 0.00.02

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

Load high performing setting (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 configuration settings giving highest performance

ESC: Exit  $\uparrow\downarrow$ : 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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NA115 BIOS Rev: 0.00.02

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

Load failsafe settings (Y/N)? N

CHANGE ODEL LADDWOLA

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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NA115 BIOS Rev: 0.00.02

Standard CMOS Features
Advanced CMOS Features
Advanced Chipset Features
Power Management Setup

Save current settings and exit (Y/N)?  $\underline{Y}$ 

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  $\uparrow\downarrow$ : 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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NA115 BIOS Rev: 0.00.02

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

Quit without saving (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

Exit without saving the current settings

ESC: Exit  $\uparrow \downarrow$ : Sel F2/F3: Color F10: Save and Exit

# **NOTES**