4PMMNL Abridged User Guide

1. 4PMMNL Component Layout

Connect 2 Power Connectors to Power Supply to boot system

Fan Connector for CPU cooling Fan

+12V Power

FAN1

ATX Power

J15

Back Panel Connectors

Socket 478

mPGA478B

DDR 266/200 SDRAM

DIMM Slot

DIMM Slot

IDE2

IDE1

FAN2

J3

VIA P4M266A

J16 Front Audio

J16   CD-IN1

Pin 1 Mic In
Pin 3 VREFOUT
Pin 5 FR-IN
Pin 7 (NC)
Pin 9 FL-IN

Pin 2 Aud GND
Pin 4 Aud Vdd
Pin 6 FR-OUT
Pin 8 (Key)
Pin 10 FL-OUT

Audio Codec

J7

AGP Slot

VT6103

BIOS

PCI Slot

VIA VT8235

PCI Slot

Battery

Fr. Panel

20 19

2 1

IR1   WOL

FDD Connector

USB2

J17   JBAT1

Front Panel Connectors

20			19
18	RST		17
16			15
14	(+) HD LED		13
12	(Void)		11
10			9
8	SPEAKER	PW LED/Keylock	7
6			5
4	(+)	(+)	3
2	PS SW	(+)	1

IR Receive/Trtansmit Connector

USB2 Pin-header

2   10

+5V   USBDT5-   USBDT5+   GND   GND

1   9

+5V   USBDT4-   USBDT4+   GND

Wake-up on LAN Connector

J17: Smart Panel III LED

Pin 1 GPIOC
Pin 2 N/A
Pin 3 GPIOE
Pin 4 GPIOD
Pin 5 GPO0
Pin 6 GND

2. 4PMMNL Specification and Features

- **CPU**
  Socket 478 for Intel P4 CPUs;
  Supporting FSB 400/533MHz;

- **Memory**
  Supporting DDR266/200 SDRAM with 2 DDR DIMM slots up to 2GB module size;

- **System Chipset**
  North Bridge P4M266A; South Bridge VT8235;

- **Smart BIOS**
  Full ACPI, APM, DMI, Green, PnP, CPU FSB, Multiplier Ratio & Boot media Selection supported;

- **Integrated Graphics**
  1x VGA connector and 1x AGP slot integrated;

- **LAN Controller Integrated**

- **Six USB 2.0 Ports supported**

- **2x PCI slots integrated**

- **2x UltraDMA 66/100/133 IDE ports**

- **6-channel AC'97 Codec integrated**

- **Back Panel**
  6xUSB ports; 1xVGA port; 1xCOM port; 1xParallel port; 1xPS/2 keyboard port; 1xPS/2 Mouse port; 1xLine-in; 1xLine-out; 1xMic;
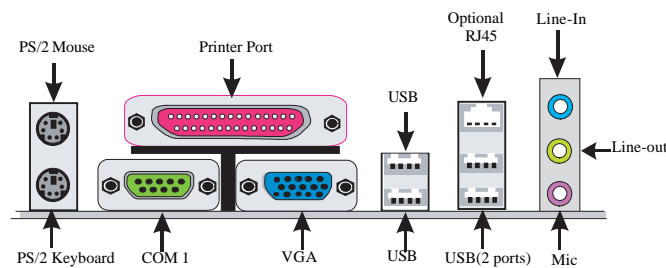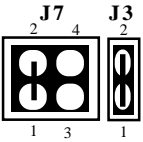
3. Jumper Settings
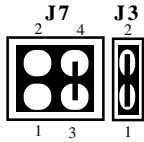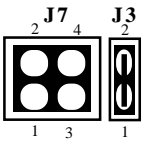
J15: KB/Mouse Wakeup

1-2 closed	Enabled
2-3 closed	Disabled (Default)
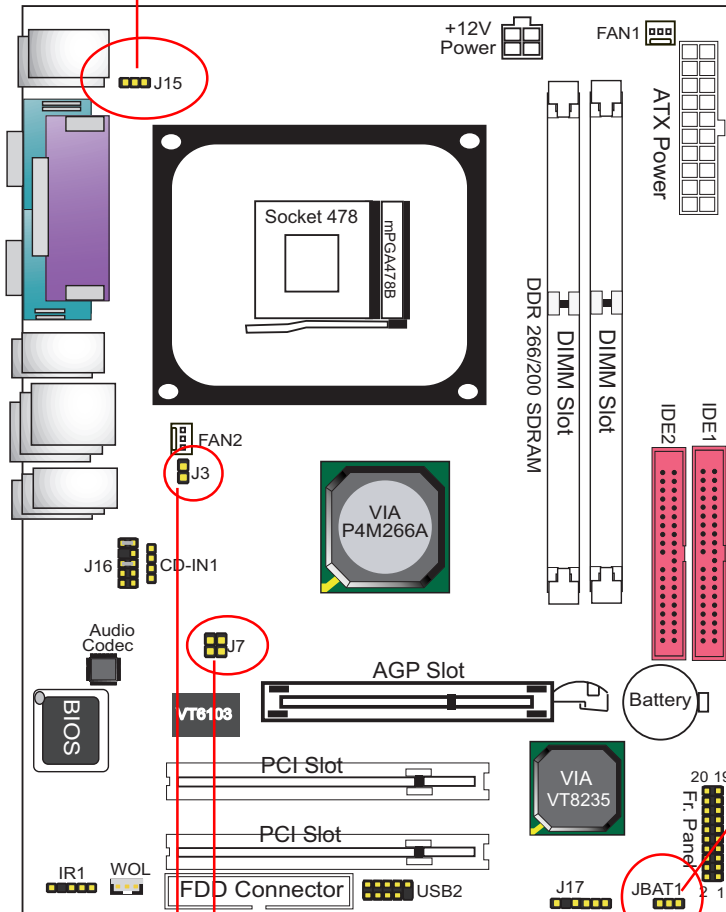
JBAT1: Jumper Clear CMOS

1-2 closed	Normal (Default)
2-3 closed	Clear CMOS

Motherboard diagram labels:

+12V Power, FAN1, ATX Power, Socket 478, mPGA478B, DDR 266/200 SDRAM, DIMM Slot, DIMM Slot, IDE2, IDE1, FAN2, J3, VIA P4M266A, J16, CD-IN1, Audio Codec, BIOS, VT6103, J7, AGP Slot, Battery, PCI Slot, VIA VT8235, PCI Slot, 20 19, Fr. Panel, IR1, WOL, FDD Connector, USB2, J17, JBAT1, J15

J3 & J7 : CPU Clock Select

| J7 / J3	J7 / J3	J7 / J3
66 MHz CPU	100 MHz CPU (default)	133 MHz CPU

4. Drivers Installation

When starting to install drivers or utilities, if you are prompted to choose a proper motherboard model, please click on "4PMMNL" for this motherboard.

(1). VIA 4-in-1 Service Pack:
Choose this auto-run program in you Driver CD, and the Setup Program will guide you through the whole VIA 4-in-one Service Pack Setup.
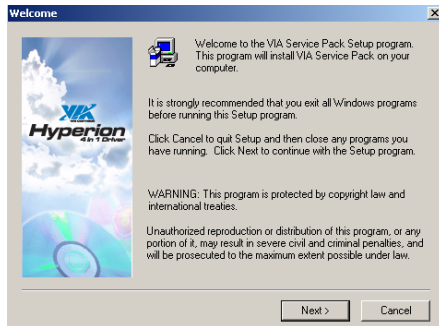
(2). VGA Driver :
Choose this auto-run program in you Driver CD, and the Setup Program will guide you through the whole VGA driver Setup.
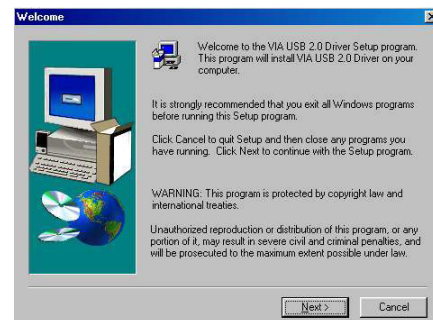
(3). C-Media Audio Codec:
This motherboard comes with C-Media Xear 3D CODEC . You can find the Audio driver from this Auto-run menu.

(4). USB 2.0 Driver Setup:
Choose this auto-run program in you Driver CD, and the Setup Program will guide you through the whole USB 2.0 driver Setup.

(5). LAN Driver Setup:
LAN drivers can be installed into your operating system either automatically by the auto-run setup program or manually by user. Follow the following illustrations to install LAN driver for your operating system:

1. If your system (e.g. Win2K or WinXP) detects the onboard network hardware, it will go on find out the proper LAN driver and install it right away.

2. If your system is Win98 or if you want to install the LAN driver by yourself, please enter the "Device Manager" of your Windows system. You can see that the "VIA Rhine II Fast Ethernet Adapter is not set up yet. Click "Refresh" to set up the driver.

2. Click "Update Driver" to continue, and then follow the instructions from the Setup windows to finish setup.
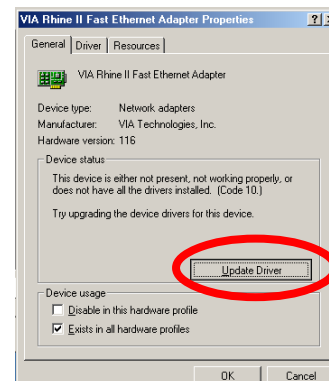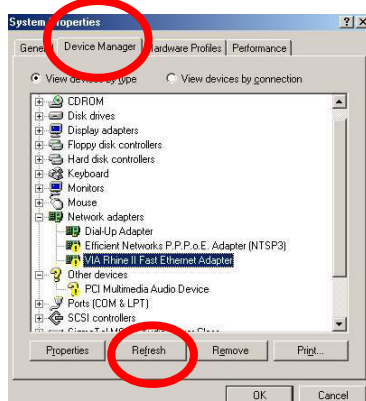
[Note]
If the OS is windows 98, the Lan driver located at **Optical Drive:\Driver\Lan\VT6103**