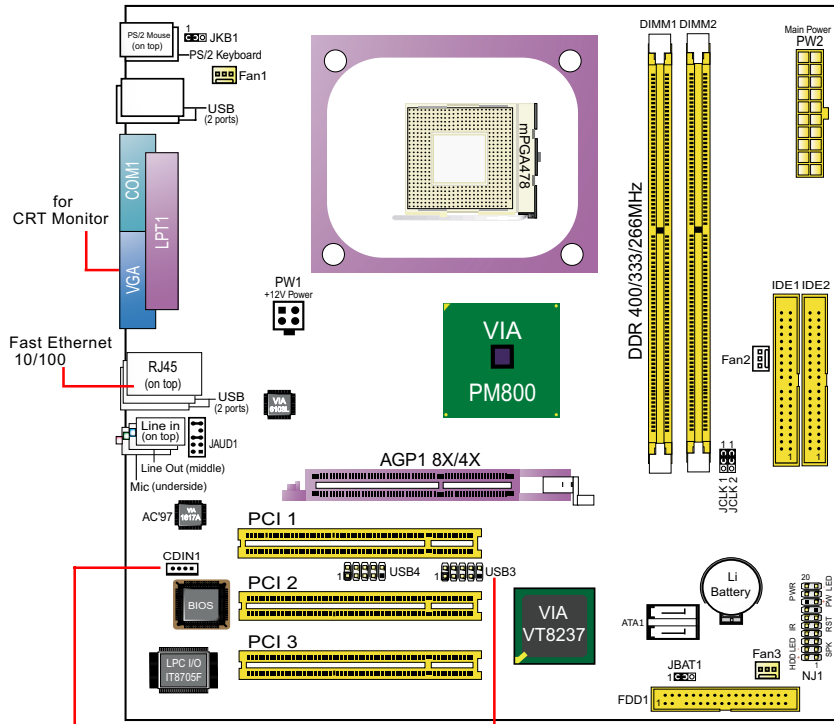



Chapter 1 Specification

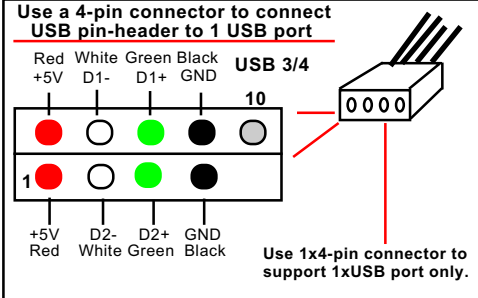
1-1 Mainboard Layout and Components Setup

RJ45 } For PM800I-RL Only
 LAN Chip VT6103L }

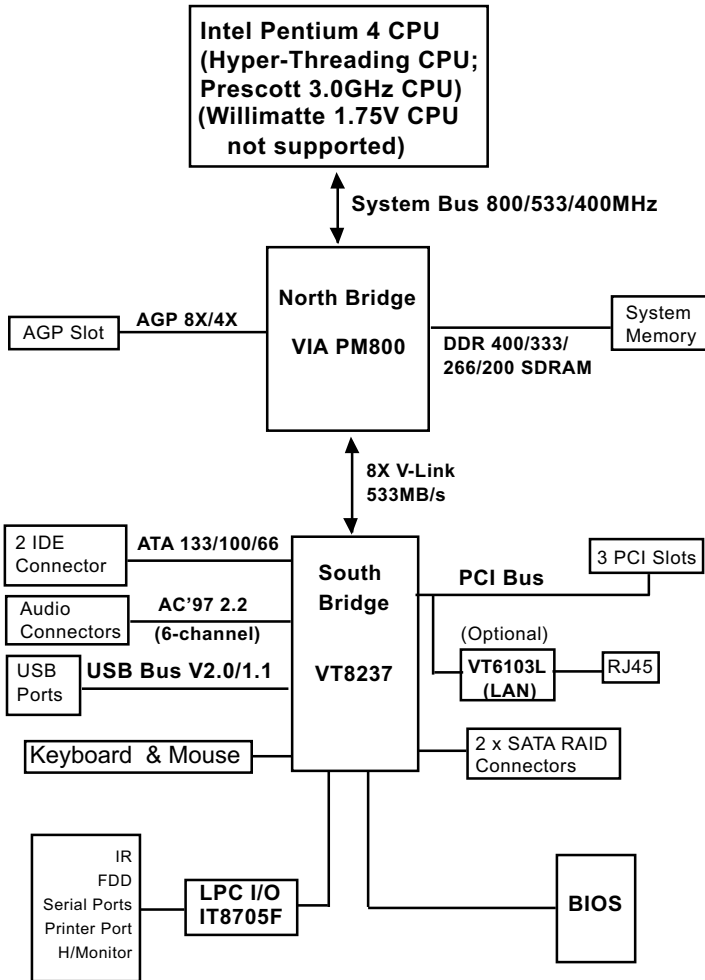


CD-ROM Audio Connector

CD-In1	Pin Signal
 1	
Pin 1	Left Channel
Pin 2	GND
Pin 3	GND
Pin 4	Right Channel



1-2 Chipset System Block Diagram



Intel Pentium 4 + VIA PM800 + VT8237 Diagram

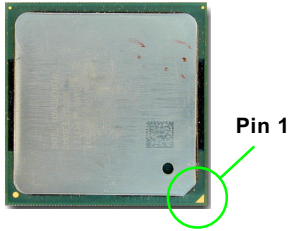
1-3 Mainboard Specification Table

SL-PM800I-R/ PM800I-RL Specifications and Features		
CPU	Socket 478B for P4 CPU, including HT and Prescott 3.0GHz CPUs; P4 Willimatte 1.75V CPU not supported	
North Bridge	VIA PM800, supporting 800/533/400MHz FSB	
South Bridge	VT8237, with RAID Controller	
VGA	Integrated VIA Unichrome Pro Graphic	
Memory	Supporting DDR 400/333/266 SDRAM, up to 2GB in 2 DIMM slots	
I/O Chip	ITE IT8705F	
AGP interface	1 AGP 4X/8X Slot on board	
Audio	AC'97 Audio 2.2 compliant, 6-channel audio	
IDE Interface	2 UATA 66/100/133 IDE ports	
PCI Slots	3 PCI Master slots on board	
I/O Connectors	8 USB2.0 ports, 1 FDD port, 1 COM port, 1 LPT, 1 IrDA, 1 PS/2 Keyboard, 1 PS/2 Mouse	
SATA RAID Interface	SATA RAID interface, supported by VT8237, with 2 integrated SATA RAID connector	
Other common features	PS/2 Keyboard/Mouse Wake Up	
Optional Features	Models	
		PM800I-R
LAN Controller on board	No	Yes

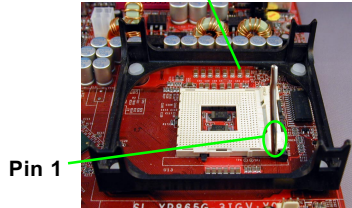
1-4 Pentium 4 CPU and CPU Fan Installation

1-4.1 CPU Installation with Socket 478B

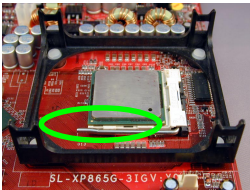
(1) Pentium 4 CPU



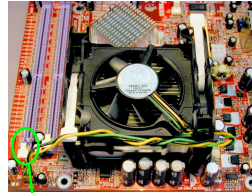
(2) Pull up the lever and insert P4 CPU into socket 478



(3) Pull down the lever to fix



(4) Load down the P4 CPU Fan

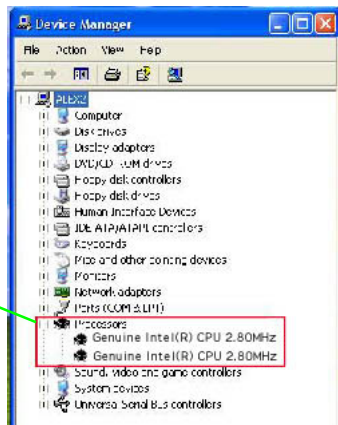


Connect Fan Power cable to onboard

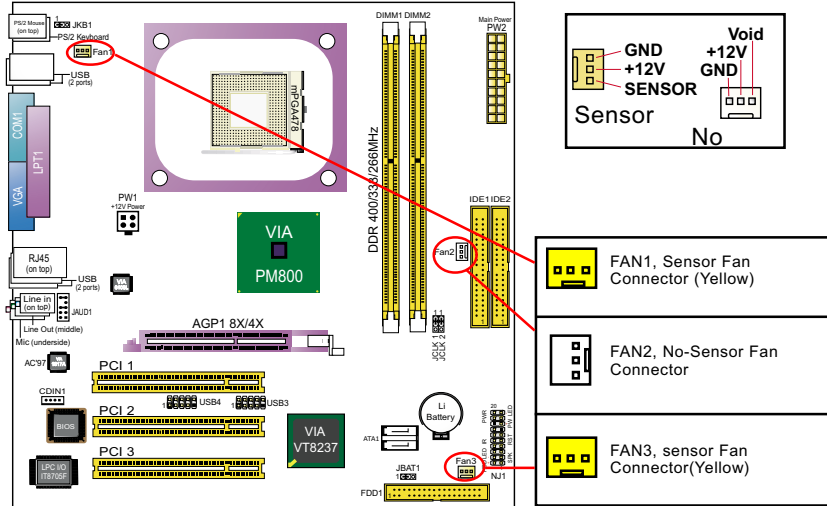
1-4.2 Hyper-Threading CPU Setup (supported by Win XP)

This mainboard supports Hyper-threading dual-in-one CPU, the function of which can be enabled by Windows XP. (See illustration on the right.)

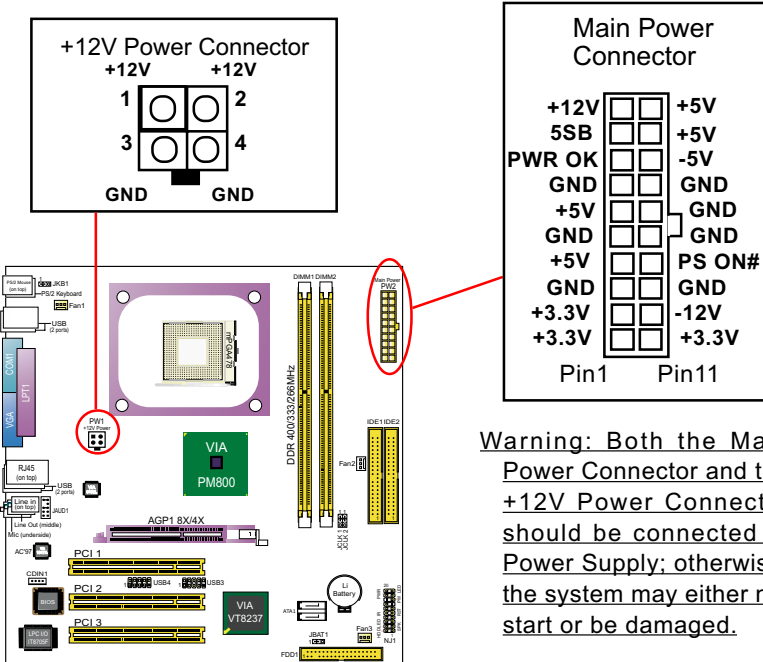
(If Hyper-Threading CPU is installed successfully with Windows XP, the O/S will enable the dual-in-one CPU function.)



1-5 On board Fan Connector Setup





1-6 ATX V 2.03 Power Supply Installation







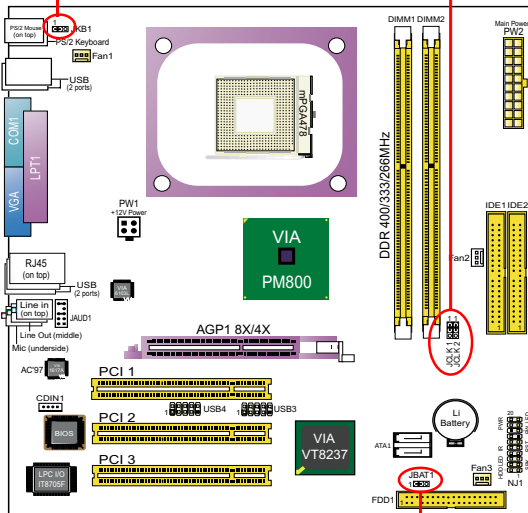
Warning: Both the Main Power Connector and the +12V Power Connector should be connected to Power Supply; otherwise, the system may either not start or be damaged.



1-7 Jumper Settings

The following diagrams show the locations and settings of jumper blocks on the mainboard.

JKB1: P/S 2 Keyboard / Mouse Wake Up	
1 	1-2 closed (default) Disabled
1 	2-3 closed Enabled

JCLK1&JCLK2: CPU Frequency Select			
(default) CPU Auto- Detection	100MHz (FSB400)	133MHz (FSB533)	200MHz (FSB800)
1 1  JCLK1	1 1  JCLK2	1 1  JCLK1	1 1  JCLK2



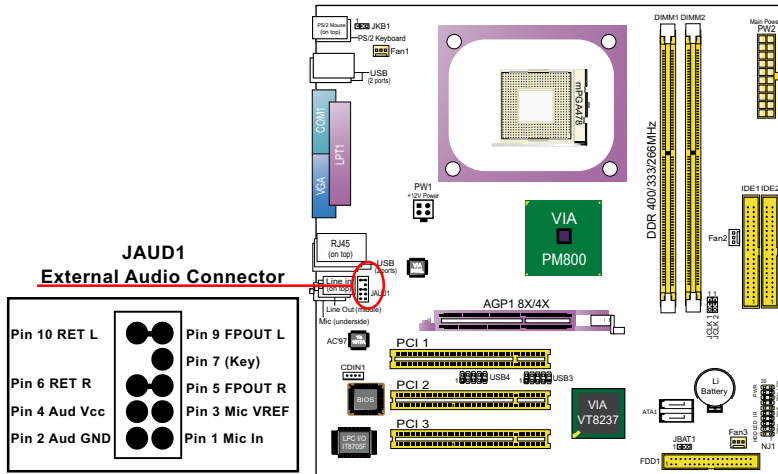
JBAT1 Clear CMOS	
1 	1-2 closed (default) To hold data
1 	2-3 closed To clear CMOS

1-8 Other Connectors Setup

1-8.1 Front Audio Connector

This Mainboard is designed with a Front Panel Audio connector “JAUD1” which provides connection to your chassis.

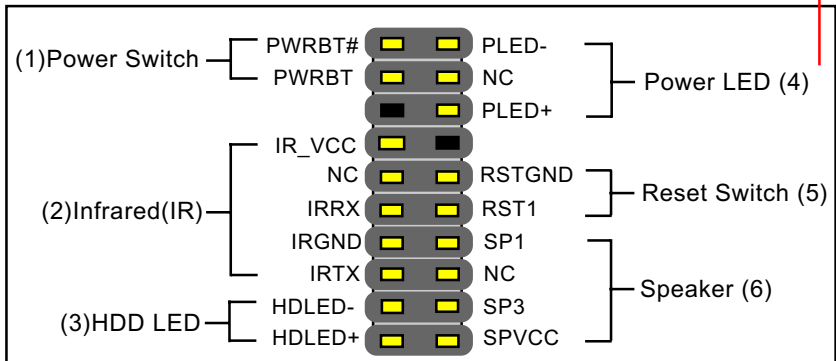
1. When JAUD1 is set to 5-6 closed and 9-10 closed, this default setting disables this connector and leaves the Back Panel Audio enabled.
2. To use this Front Panel Audio Connector, please open all pins of JAUD1 and connect it to your chassis.



1-8.2 Complex Header (Front Panel Connectors)

This complex Header consists of 6 connectors providing various supports:

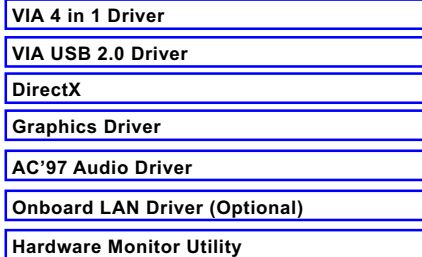
Front Panel Connectors Illustration



Chapter 2 Software Setup

2-1 To Open up the Support CD

1. Please put the Support CD enclosed in your mainboard package into the CD-ROM drive. In a few seconds, the Main Menu will automatically appear, displaying the contents to be installed for this series:

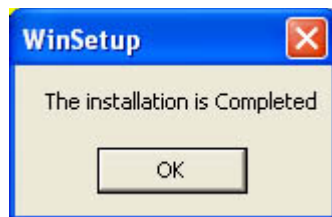


2. Start driver and software installation from the first item and finish all to optimize your system.
3. If you are setting up RAID system, you must also install the VT8237 RAID driver (manually) into your system.

2-2 Some Setup guides (including RAID Driver Setup)

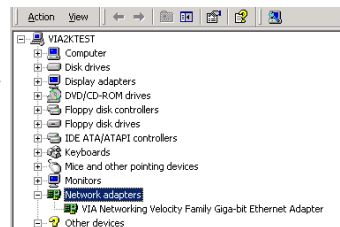
2-2.1 LAN Driver Installation (for PM800I-RL)

1. Following the procedures of opening the Support CD, click to “Onboard LAN Driver” to proceed.
2. Instantly, “The installation is completed” screen appears, indicating that LAN Driver setup is finished.



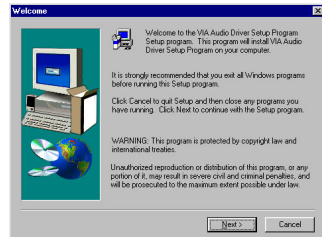
2-2.2 LAN Driver Verification

1. After LAN Driver setup, a new networking icon will appear at the corner of the “Start” screen of your system, indicating that a network channel has been set up.



2-2.3 Installing AC'97 6-channel Audio Driver

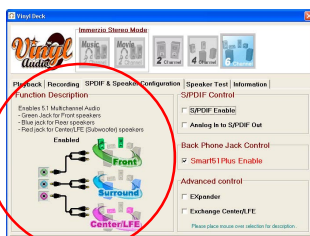
1. Following the procedures of opening the Support CD, click to “AC'97 Audio Driver” to proceed.
2. Instantly, the “VIA Audio Driver Setup Program” screen appears to guide you through the whole setup.
3. In a few seconds, the setup process is finished. Please check the radial button “Yes, I want to restart my computer now.” And click “Finish” to restart your system.



2-2.4 Verifying 6-channel Audio

1. Start your Windows system and double click the Avance Sound Effect manager icon to enter 6-channel configuration:
2. The “AC'97 Audio Configuration” screen will pop out. Click the “Speaker Configuration” bar with your mouse.
3. Instantly, the “Speaker Configuration” screen will pop out. Pick the items “6-channel mode for 5.1 speakers output” and “Synchronize the phonejack switch with the speakers settings” and then click “OK” to finish configuration.
4. At finishing the Speakers Configuration, you can also click the “Speaker Test” bar on the screen to test the 6-channel performance. The figure below is the “Speaker Test” screen with testing instructions enclosed on it. Follow the instructions to perform the Speakers Test.

“Speaker Configuration”



“6-channel mode for 5.1 speakers output”

“The Speakers Test”

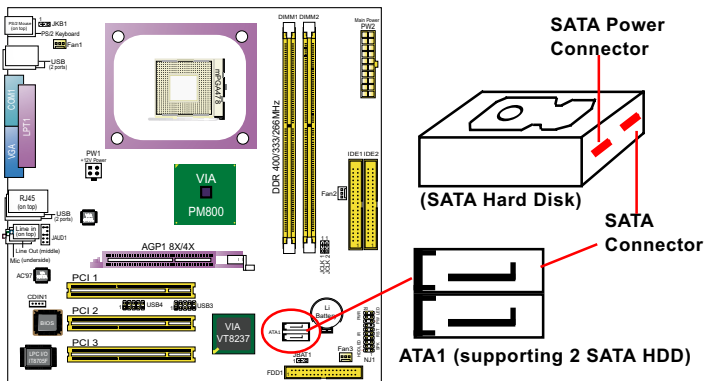


2-2.5 To Install USB 2.0 Driver

VIA USB V2.0 is already integrated on board. Its 480Mb/s transfer rate supports operating systems Windows 98SE/ME/2000/XP. USB2.0 Driver is typically for Windows 98SE/ME. For Windows 2000/XP, users can install their latest Service Pack instead of the USB2.0 driver to gain the USB2.0 support. For the Windows system which is not installed with its latest Service Pack, users must install the USB2.0 driver to activate the USB2.0 support:

2-2.6 To Install RAID System and Driver

(1) First set up SATA Hard Disks to SATA connectors.



(2) To set up RAID system and RAID driver, first enter CMOS BIOS Setup. Then choose “Integrated Peripheral” and “VIA OnChip IDE Device”. As soon as you click on the “VIA OnChip IDE Device”, a list of events appears for you to configure their values. Choose “Enabled” for the “OnChip SATA RAID” so as to enable the SATA RAID interface.

VIA OnChip IDE Device:

To press < Enter > on VIA OnChip IDE Device will reveal the following item(s).

OnChip SATA RAID To enable/disable the on-chip SATA interface.

(3) SATA-RAID Driver is incorporated in Support CD/Floppy Disk for user’s installation. The Driver Floppy Disk is needed for SATA RAID installation on Windows 2K/XP. If you cannot find this Driver Floppy Disk in the mainboard package, you can make one by copying the driver from the Driver CD into a Floppy Disk.

Chapter 3 AWARD BIOS Setup

3-1 To Update BIOS

- “AWDFLASH.EXE” is a Flash EPROM Programming utility that updates the BIOS by uploading a new BIOS file to the programmable flash ROM on the mainboard. This program only works in **DOS environment, the utility can not be executed in Windows 95/98, ME, NT, WINDOWS 2000 or Windows XP environment.**
- **Please follow the steps below for updating the system BIOS:**

Step 1. Please visit the board maker’s website, download the zip file which contains the latest BIOS file and Award Flash Utility “AWDFLASH.EXE”. After unzipping, the BIOS file format will be *.bin, of which “*” stands for the specific BIOS file name.

Step 2. Create a bootable diskette. Then copy the BIOS file and Award Flash Utility “AWDFLASH.EXE” into the diskette.

Step 3. Insert the diskette into drive A, reboot your system and boot from the diskette.

Step 4. Type **awdf flash *.bin /sn/py/cc** and then press <Enter> to run BIOS upgrade program. (*.bin depends on your mainboard model and version code. Instead of typing “*”, you should type specific file name for your specific mainboard).

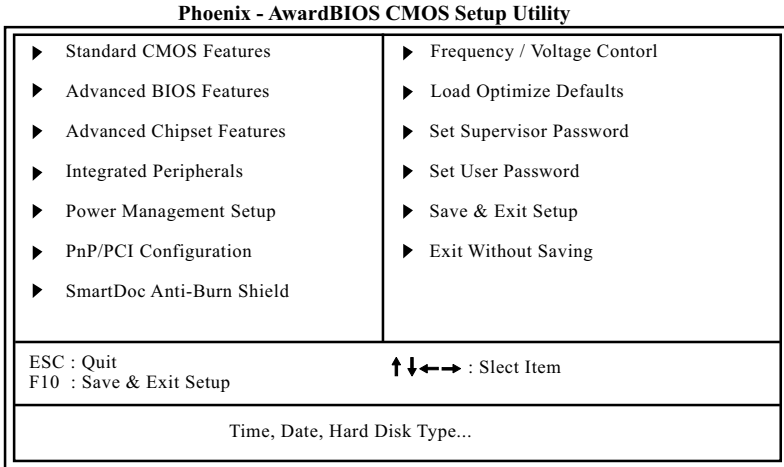
Step 5. Please press <F1> or <F10> to exit or reset your system.

Step 6. You will need a message “CMOS checksum error-Default loaded” during booting the system. Press to run CMOS setup utility, then reload “LOAD SETUP DEFAULTS” or “**Load Optimized Defaults**” and save this change.

Attention: The BIOS Setup is subject to constant update without further notice to users. It is necessary for users themselves to update onboard BIOS with the latest BIOS version provided in our web site:
<http://www.soltek.com.tw>

3-2 BIOS SETUP by CMOS Setup Utility

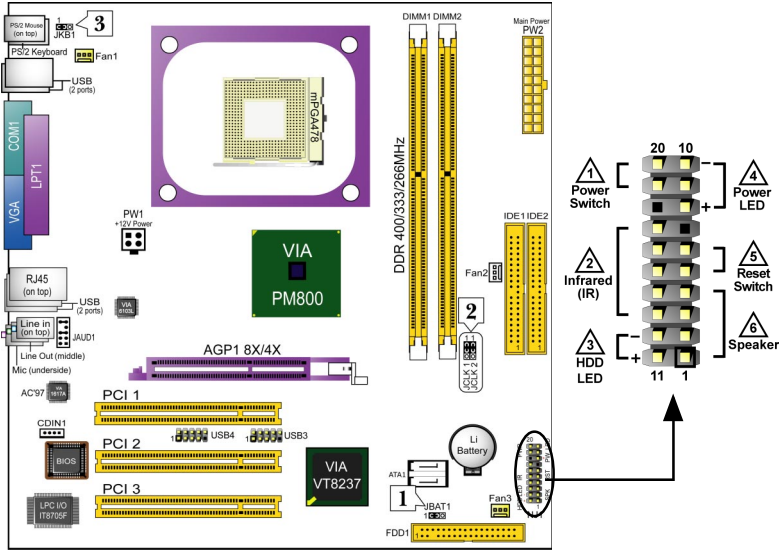
1. Power on your system.
2. At the initial screen, enter CMOS Setup Utility by pressing < Del > key before POST(Power on Self Test) is complete and the main program screen will appear as follows.



3. Use the arrow keys on your keyboard to select an option, and press <Enter>. Modify the system parameters to reflect the options installed in your system.
4. You may return to the Main Menu anytime by pressing <Esc>.
5. In the Main Menu, "Save Changes and Exit" saves your changes and reboots the system, and "Discard Changes and Exit" ignores your changes and exits the program.

- Standard BIOS Features(Times, Date, System Information etc.)
- Advanced BIOS Features (CPU,IDE, Floppy, SuperIO, Hardware Health, ACPI, USB, and Frequency/Voltage Control)
- Advanced Chipset Features (NorthBridge, SouthBridge Configuration)
- PCI/PNP Resource Management (IRQ Settings, Latency Timers etc.)
- Boot Configuration Setup (Boot Settings, Boot Device Priority etc.)
- BIOS Security Features (Supervisor Password, User Password)
- Save Changes and Exit (Exit system setup with saving the changes.)
- Discard Changes and Exit (Exit system setup without saving the changes.)
- Load Optimal Default
- Discard Changes

SL-PM800I-R / PM800I-RL Quick Installation Guide





Brochage composite Gesamtübersicht Conector de dispositivos Conectores em Pinos
 Совмещённая контактная площадка (pin-header) 複合ヘッダ 設備連接埠

다목적 콘넥터 التوصيلات الداخلية

<p>Interruptor de Força Interruptor de Energia System ein/aus Schalter Connecteur du Switch Power On Разъём для выключателя питания мощности パワースイッチ 電源開關 전원 스위치 연결 مفتاح الطاقة الكهربائية</p>	<p>HDD LED HDD LED HDD LED Connecteur du témoin d'activité du disque dur Разъём для светодиода HDD (HDD LED) HDD LED 硬碟指示燈 하드 드라이브 LED 연결 مؤشر ضوئي للقرص الصلب الأول</p>	<p>Interruptor de Reset Interruptor de Reset Neustart Schalter Connecteur du bouton Reset Разъём для кнопки перезагрузки (Reset) リセットスイッチ 系統重設接頭 리셋 스위치 연결 مفتاح إعادة التشغيل</p>
<p>Infravermelho (IR) Conector de infrarrojos Infrarot Connecteur IR (Infrarouge) Разъём для инфракрасного порта 赤外線 (IR) 紅外線連接頭 자외선 콘넥터 (IR) 연결 أشعة تحت الحمراء</p>	<p>LED de Força LED de Energia Betriebsanzeige Connecteur du témoin d'alimentation Разъём для светодиода питания (Power LED) 電源 LED 電源指示燈 전원 LED 연결 مؤشر ضوئي لحالة السبات</p>	<p>Alto-falante Altavoz Lautsprecher Connecteur du haut-parleur Разъём для динамика (PC-speaker) 스피커 喇叭接頭 스피커 연결 السماعات</p>

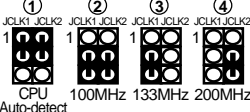
Réglage des cavaliers Jumper-Einstellungen Configuración de Jumper Configuração de Jumper
 Настройки джамперов ジャンパーセッティング 跳線設定 점퍼 세팅 إعدادات الجامير

<p>Effacement du CMOS JBAT1 1-2 Conservation des données (par défaut) 2-3 Effacement du CMOS</p>	<p>Очистка CMOS (энергонезависимой памяти) JBAT1 1-2-Для сохранения данных (По умолчанию) 2-3-Для очистки CMOS</p>	<p>CMOS Daten löschen JBAT1 1-2 Daten erhalten (Standard) 2-3 CMOS Daten löschen Borrar el CMOS JBAT1 1-2 Retener Datos (por defecto) 2-3 Borrar el CMOS</p>
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<p>Limpar dados do CMOS JBAT1 1-2 Reter Dados (Padrão) 2-3 Limpar dados do CMOS</p>	<p>1 JBAT1 Clear CMOS</p>   <p>1-2 (default) 2-3 To hold data To clear CMOS</p>	<p>استعادة الوضع الافتراضي لتفمخ الدخل والخرج الأساسي JBAT1 2-1 وضع الحفظ على المعلومات (الافتراضي) 3-2 استعادة الوضع الافتراضي للمسح</p>
--	--	---



<p>CMOS データを消却 JBAT1 1-2 データを記憶する (デフォルト) 2-3 CMOS データを消却</p>	<p>CMOS 데이터 삭제 JBAT1 1-2 원래값 유지 (기본값) 2-3 현재 CMOS 데이터 삭제</p>	<p>清除 CMOS 功能 JBAT1 1-2 記憶資料 (預設值) 2-3 清除 CMOS 功能</p>
--	---	--

<p>Sélection de la fréquence du CPU JCLK1 & JCLK2 ① Autodétection du CPU (par défaut) ② Pour une fréquence CPU de 100MHz ③ Pour une fréquence CPU de 133MHz ④ Pour une fréquence CPU de 200MHz</p>	<p>Выбор частоты процессора JCLK1 & JCLK2 ① Авто-определение процессора (По умолчанию) ② Для установки частоты процессора 100 МГц ③ Для установки частоты процессора 133 МГц ④ Для установки частоты процессора 200 МГц</p>	<p>CPU Clock Einstellungen JCLK1 & JCLK2 ① CPU Autodetect (Standard) ② Fur 100MHz CPU Clock ③ Fur 133MHz CPU Clock ④ Fur 200MHz CPU Clock</p>
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<p>Seleção de Clock do CPU JCLK1 & JCLK2 ① Detecção automática do CPU (Padão) ② Para 100MHz de Clock do CPU ③ Para 133MHz de Clock do CPU ④ Para 200MHz de Clock do CPU</p>	<p>2 JCLK1 & JCLK2 CPU Frequency Select</p>  <p>① ② ③ ④ CPU 100MHz 133MHz 200MHz Auto-detect (default)</p>	<p>Selección de Clock del CPU JCLK1 & JCLK2 ① CPU Autodetect (por defecto) ② Para 100MHz CPU Clock ③ Para 133MHz CPU Clock ④ Para 200MHz CPU Clock</p> <p>وضعت لوحة JCLK1 & JCLK2 في وضع لاختيار سرعة تردد نقل المعالج ① اختيار تلقائي للسرعة (افتراضي) ② للسرعة 100 MHz للتناقل ③ للسرعة 133 MHz للتناقل ④ للسرعة 200 MHz للتناقل</p>
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<p>CPU クロック設定 JCLK1 & JCLK2 ① は CPU 自動検出設定用 (デフォルト) ② は 100MHz 使用時の設定 ③ は 133MHz 使用時の設定 ④ は 200MHz 使用時の設定</p>	<p>CPU 클럭 선택법 JCLK1 & JCLK2 ① CPU 클럭 자동 선택 (기본값) ② 100MHz CPU 클럭 선택 ③ 133MHz CPU 클럭 선택 ④ 200MHz CPU 클럭 선택</p>	<p>CPU 頻率設定 JCLK1 & JCLK2 ① CPU 自動偵測 (預設值) ② 選擇 100MHz CPU 頻率 ③ 選擇 133MHz CPU 頻率 ④ 選擇 200MHz CPU 頻率</p>
--	--	--

<p>Réveil par Clavier / Souris JKB1 1-2=Mis hors service (par défaut) 2-3=Activée</p>	<p>Выход из режима ожидания при активности клавиатуры/мыши JKB1 1-2= Выключено (По умолчанию) 2-3= Включено</p>	<p>Tastatur / Maus Aufwachen JKB1 1-2=Deaktiviert (Standard) 2-3=Aktiviert</p>
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<p>Ligar no Teclado/Rato de acordar JKB1 1-2=Desabilitado (Padrão) 2-3=Habilitado</p>	<p>3 JKB1 KB/Mouse Wake up</p>   <p>1-2 (default) 2-3 Disabled Enabled</p>	<p>Teclado/Ratón de Wakeup JKB1 1-2=Desactivado (por defecto) 2-3=Activado</p> <p>لتشغيل الجهاز عن طريق لوحة المفاتيح ذات مدخل JKB1 2-1 غير مفعل (الافتراضي) 3-2 مفعل</p>
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<p>キーボード / マウス力のウェイクアップ JKB1 1-2 設定無効にする (デフォルト) 2-3 設定有効</p>	<p>키보드/마우스 절전모드에서 해제 JKB1 1-2= 사용금지 (기본값) 2-3= 사용가능</p>	<p>鍵盤 / 滑鼠 喚醒功能 JKB1 1-2 = 關閉功能 (預設值) 2-3 = 開啓功能</p>
--	--	---