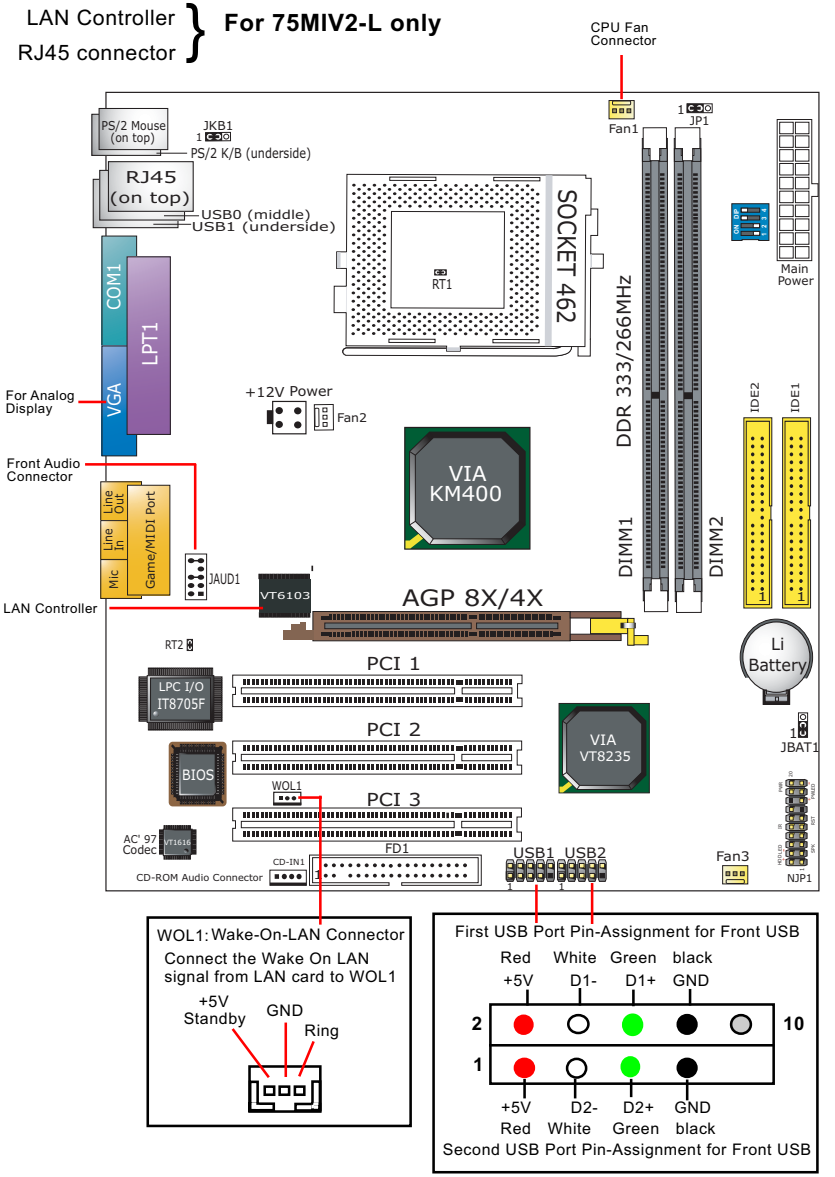
Chapter 1 Specification

1-1 Mainboard Layout and Components Setup



1-2 Mainboard Specification Table

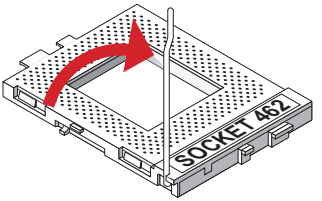
75MIV2/75MIV2-L Specifications and Features		
CPU	Socket 462 for AMD Athlon, Athlon XP, Duron CPU	
North Bridge	VIA KM400, supporting 333/266/200 MHz FSB	
South Bridge	VT8235	
BIOS	AMI BIOS	
Memory	Supporting DDR 333/266 SDRAM, up to 2GB in 2 DDR DIMM slots	
I/O Chip	ITE IT8705F with Hardware Monitor	
AGP interface	AGP 8X/4X mode only	
Audio	AC'97 Audio Codec, 6-channel compliant	
IDE Interface	2 ATA 133/100/66 IDE	
VGA	Integrated on board	
Network	Fast Ethernet Controller, RJ45 on board (Optional)	
PCI Slots	3 PCI Master slots on board	
I/O Connectors	6 USB V2.0, 1 FDD port, 1 COM port, 1 LPT, 1 IrDA, 1 PS/2 K/B, 1 PS/2 Mouse	
Other Feature	Keyboard/Mouse Power On/Wake Up	
Models / Optional Features	75MIV2	75MIV2-L
LAN Controller on board	No	Yes

1-3 CPU Installation with Socket 462

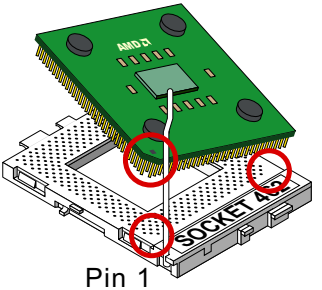
This mainboard is built with CPU Socket 462 supporting the AMD CPUs Athlon, Athlon XP and Duron:

- Follow the steps described in this section to install CPU into the on-board Socket 462.
- After installation of CPU, you must also install a proper cooling fan on top of the CPU and connect the Fan cable to the CPU fan connector.

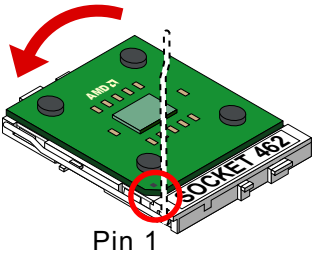
1. First pull sideways the lever of Socket 462, and then turn it up 90^0 so as to raise the upper layer of the socket from the lower platform.



2. Configure Pin 1 of CPU to Pin 1 of the Socket, just as the way shown in the diagram on the right. Adjust the position of CPU until you can feel all CPU pins get into the pin holes of the socket.



3. Make sure that all CPU pins have completely entered the socket and then lower down the lever to lock up CPU to socket.



1-4 Jumper / Switch Settings

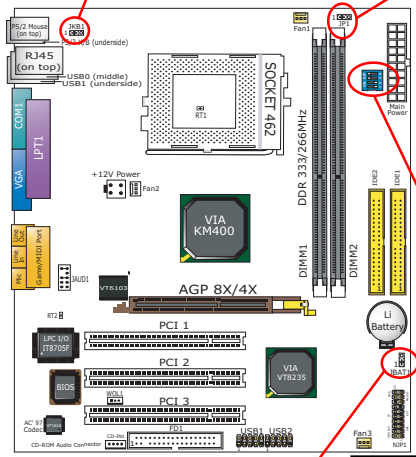
The following diagrams show the locations and settings of jumper / switch blocks on the mainboard.

JKB1: Keyboard/Mouse Power On / Wake Up

1	**1-2 closed (default)** Enabled
1	**2-3 closed** Disabled

JP1: Anti-burn Shield (ABSII) (Overheated CPU Shutdown) (only for Athlon XP/Duron Morgan)

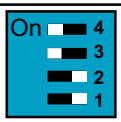
1	**1-2 closed (default)** Enable overheated CPU (85°C) shutdown function
1	**2-3 closed** Disable overheated CPU shutdown function



JBAT1: Clear CMOS

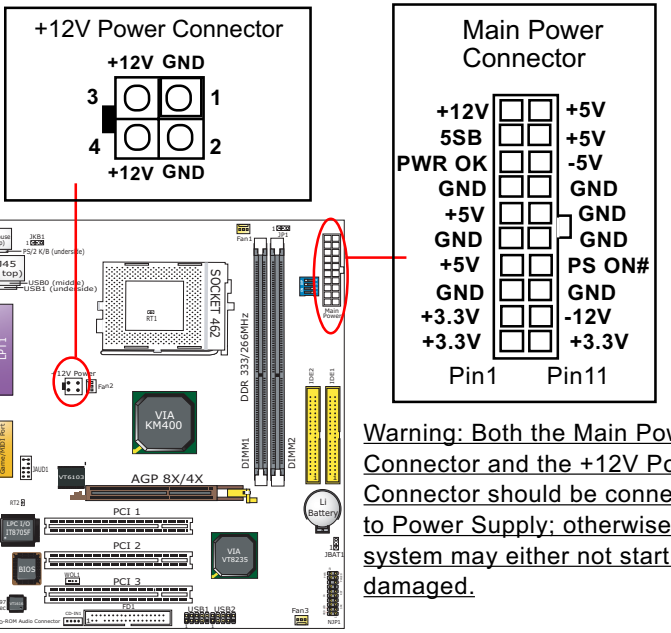
1	**(default) 1-2 closed** To hold data
1	**2-3 closed** To clear CMOS

SW1 (4-Dip) CPU Clock Select



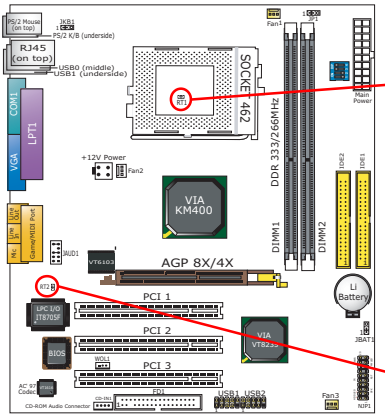
CPU Clock	SW1-1	SW1-2	SW1-3	SW1-4
100MHz	On	On	Off	Off
133MHz	Off	On	Off	Off
166MHz	Off	Off	Off	Off
200MHz (For KM400A Only)	On	Off	Off	Off
(default) CPU Auto Detection	Off	Off	On	On

1-5 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.

1-6 Thermal Resistors



Resistor RT1 and RT2: Two thermal resistors are mounted by default to connectors RT1 and RT2 so as to detect the temperature of the CPU and the system.

Thermal Resistor RT1

RT1

RT1 is mounted with Thermal Resistor by default for detecting the external CPU temperature.

Thermal Resistor RT2

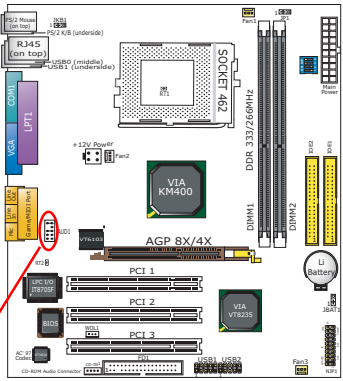
RT2

RT2 is mounted with Thermal Resistor by default for detecting the system temperature.

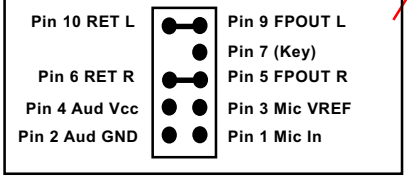
1-7 Front Audio Connector

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.

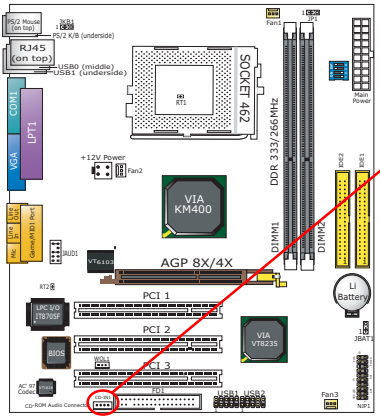


JAUD1: Front Panel Audio Connector



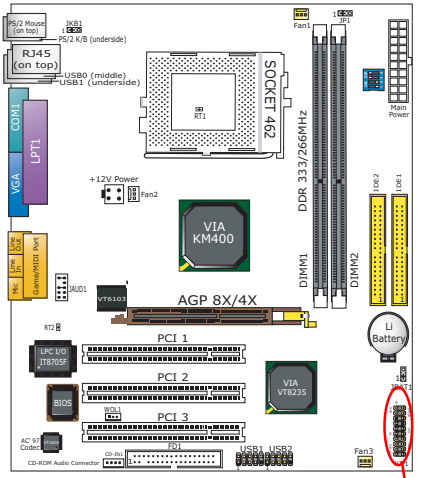
1-8 CD-ROM Audio Connectors (CD-In1)

CD-In1 is an audio connector connecting CD-ROM audio to mainboard.

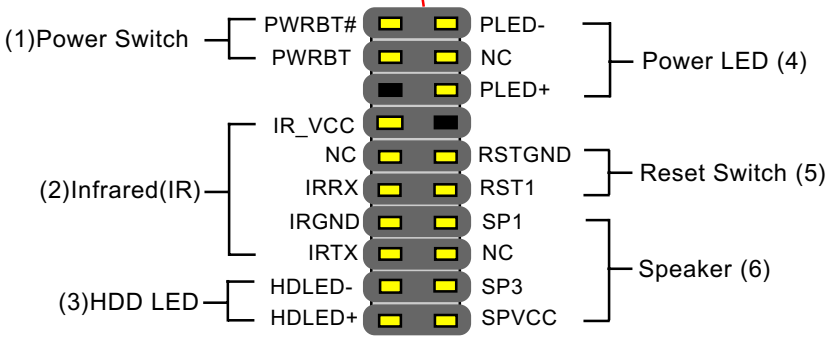


CD-ROM Audio Connector	
CD-In1 1 ■ ● ● ●	Pin Signal
Pin 1	Left Channel
Pin 2	GND
Pin 3	GND
Pin 4	Right Channel

1-9 Complex Pin-header (Front Panel Connectors)



This complex Pin-header consists of the following connectors for various front panel supports. When you have fixed the mainboard to the case, join the connectors of this Complex Pin-header to the case Front Panel.



(1) Power Switch Connector:

Connection: Connected to a momentary button or switch.

(2) IR Connector (Infrared Connector):

Connection: Connected to Connector IR on board.

(3) HDD LED Connector:

Connection: Connected to HDD LED.

(4) Power LED Connector:

Connection: Connected to System Power LED.

(5) Reset Switch Connector:

Connection: Connected to case-mounted “Reset Switch”.

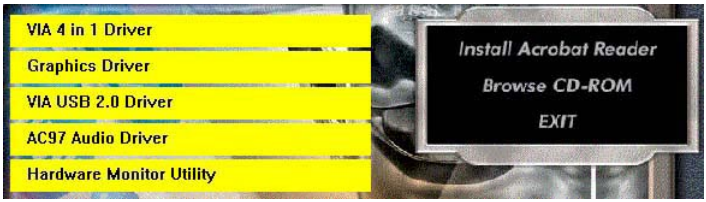
(6) Speaker Connector:

Connection: Connected to the case-mounted Speaker.

Chapter 2 Software Setup

2-1 To Open up the Support CD

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:



2-2 To Install VIA 4 in 1 Driver

VIA 4 in 1 Driver should be installed in the first place before other drivers are installed. Follow the instructions in the Auto-run program to install VIA 4 in 1 Driver.

2-3 USB 2.0 Driver Installation

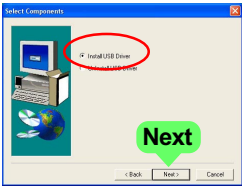
VIA USB V2.0 is already integrated on board. Its 480Mb/s transfer rate supports operating systems Windows 98SE/Me/2000/XP. USB Driver installation procedures are of similar steps in these systems. Before installing VIA USB V2.0 Driver on Windows XP, users should install the latest Service Pack for Windows XP. Please take the following illustrations from Windows XP as the USB driver installation guide:

1. Update Windows XP with the latest service pack before installing VIA USB V2.0 Driver.

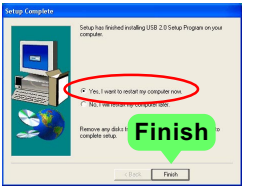
2. Following the procedures of opening the Support CD, click to choose "VIA USB 2.0 Driver" to proceed. Please notice that the USB card driver is different from the USB 2.0 driver typically for the on-board USB. Do not use the USB card driver here.

3. Instantly the "USB 2.0 Setup Program" will pop up on screen. Click "Next" to continue.

4. Instantly, next screen will pop up to prompt you to select component. Select “Install USB Driver” and click “Next” button to continue.

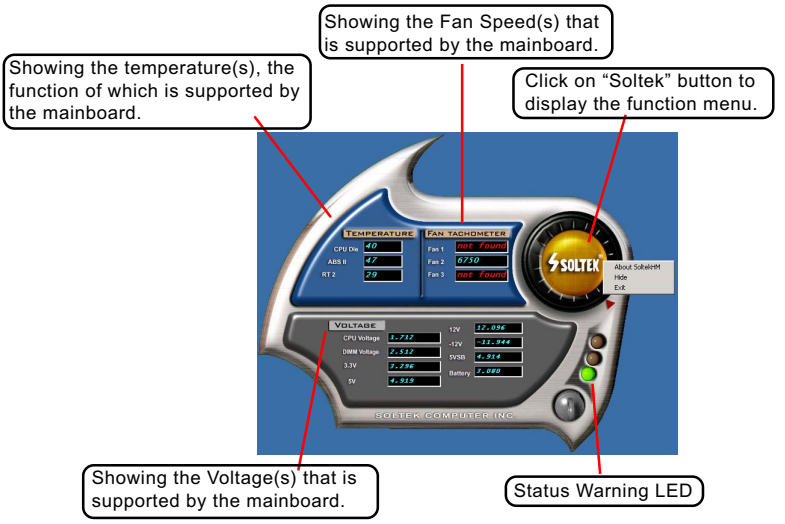


4. The USB 2.0 Setup Program will then guide you through the whole driver setup until the “Finish” screen appears to prompt you to restart your system. Please click “Finish” button to restart system to put the new driver into effect.



2-4 To Install Soltek Hardware Monitor

1. Follow the instructions in the Auto-run program to install Soltek Hardware Monitor.
2. To verify Soltek Hardware Monitor, please double click “SoltekHM” icon on the desktop and then the Soltek HM Control Panel will pop out for application.



*Note: Not all items or functions showing in the above picture will show up. Only those items or functions that are supported by the mainboard will reveal themselves in the above screen.

2-5. To Install LAN Drivers (for 75MIV2-L only)

2-5.1 VIA6103 LAN Driver on Windows 9X

The LAN driver contained in the Support CD is not included in the Autorun Menu. To install VIA6103 LAN driver on Windows 9X, please follow the steps shown below:

1. On the "Start" screen of your system, click to the following path:
   \My Computer\properties\Device manager
2. In the "Device manager" screen, you can see the item " PCI Ethernet Controller" with a yellow question mark on its left side, which indicates that the LAN controller is already detected by system but the driver for this on-board Ethernet Controller is not installed yet. Please point to this item with your mouse and double click on it (or click the "Properties" button).
3. Instantly, the "PCI Ethernet Controller Properties" screen shows up. Please click the "General" bar to continue.
4. In the "General" screen, click "reinstall Driver" button to continue. Please note that the status of "Device Usage" should stay at "Exists in all hardware profiles".

5. In the "Update device Driver Wizard" screen, click "Next" to continue until you see a dialog box asking you to "Specify a location" for the driver. You should **now** insert the Support CD into your CD-ROM.
6. As illustrated in the picture below, check the item "Specify a location" and click the "Browse" button to find out the correct path for the driver and then type it into the blank bar. Click "Next" button to continue now.

7. The Update Device Driver Wizard will then go on guiding you through the driver setup until the "Finish" screen shows up. Click "Finish" and follow the Setup instruction to restart system so as to put the newly installed driver into effect.

2-5.2 VIA6103 LAN Driver on Windows ME / 2000 / XP

1. When you newly install Windows ME, Windows 2000 or Windows XP, the system will detect the LAN Controller on board and configure it automatically into system. Therefore, users need not bother to install the LAN controller into these operating systems.
2. To verify the existence of VIA 6103 Controller and Driver, please enter the "Control Panel" of your system and click "Network" to open the "Configuration" screen. You can then see the "VIA PCI 10/100Mb Fast Ethernet Adapter" is already installed in your system.

Chapter 3 AMI BIOS Setup

3-1 To Update BIOS

- "AMIFLASH.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, 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 latest BIOS file and AMI update utility. The file name of AMI update utility will be "AMIXXX.EXE" of which " XXX " stands for the version number of the file. The BIOS file format will be *.ROM, of which " * " stands for the specific BIOS file name.

Step 2. Create a bootable diskette. Then copy the BIOS file and AMI flash utility "AMIXXX.EXE" into the diskette.

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

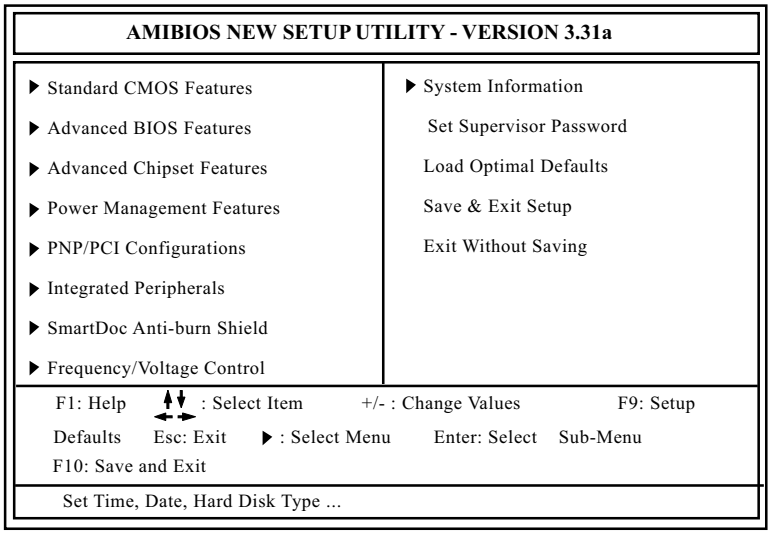
Step 4. Under " A " prompt, type **" AMIXXX.EXE *.ROM "** and then press <Enter> to run BIOS update program. Please note that there should be a space between AMIXXX.EXE and *.ROM. (*.ROM depends on your mainboard model and version code. Instead of typing "*", you should type the specific file name for your specific mainboard).

Step 5. When the message "Flash ROM Update Completed - Pass." appears, please restart your system.

Step 6. You will see a message "CMOS Memory Size Wrong" during booting the system. Press <Del> or <F1> to run CMOS setup utility, then reload "LOAD SETUP DEFAULTS" or **"Load Optimal Defaults"** and save this change.

3-2 BIOS SETUP by CMOS Setup Utility

1.Enter CMOS Setup Utility during booting system and the main program screen will appear as follows.



2. 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.
3. You may return to the Main Menu anytime by pressing <Esc>.
4. 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 CMOS Features(Times, Date, Hard Disk Type etc.)
- Advanced BIOS Features (Virus Protection, Boot Sequence etc.)
- Advanced Chipset Features (AT Clock, DRAM Timing etc.)
- Power Management Features (Sleep Timer, Suspend Timer etc.)
- PNP/PCI Configurations (IRQ Settings, Latency Timers etc.)
- Integrated Peripherals (Onboard I/O, IRQ, DMA Assign. etc.)
- Hardware Monitor Status (CPU/System Temp., Fan speed etc.)
- Frequency/Voltage (CPU clock, Voltage of CPU, DIMM, AGP etc.)
- System Information (Display System Information)
- Set Supervisor Password (Specifies The User Password)
- Load Optimal Defaults (Loads Optimal Values for All The Setup Options)
- Save & Exit Setup (Saves Data to CMOS RAM)
- Exit Without Saving (Abandon All Data)

SL-75MIV2 / 75MIV2-L Quick Installation Guide

Réglage des cavaliers　Jumper-Einstellungen　Configuración de Jumper　Configuração de Jumper

跳線設定　ジャンパーセッティング　점퍼 세팅　إعدادات الجامبر

* ①&②: 2 x Connecteur d'alimentation ATX
  ①+②=POUR ALLUMER OU

* ①&②: 2 Steckverbinder für ATX-Spannungsversorgung
  ①+②=Zum Einschalten des Systems

* ①&②: 2 x Conector de alimentación ATX
  ①+②=A encendido el sistema

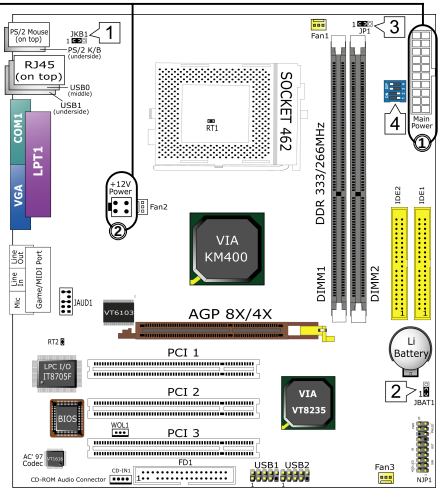
* ①&②: 2 x Conectores de Força padrão ATX
  ①+②=Para ligar o Sistema

* ①&②: 2 x ATX 電源插座
  ①+②=系統開機

* ①&②: 2 x ATX パワーコネクタ
  ①+②=ハシポソキツツキ上のシステム

* ①&②: ATX 파워 콘넥터 2개
  ①+②=시스템 전원-온

* ①&② عدد 2 مدخل كهرباء من نوع ATX
  ①+②=لتشغيل الجهاز.

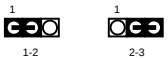


Allumage / Réveil par Clavier /Souris JKB1 1-2=Activée (par défaut) 2-3=Mis hors service	*Ligar no Teclado/Rato de arranque / acordar* JKB1 1-2=Habilitado (Padrão) 2-3=Desabilitado	**キーボード / マウス力の電源を入れること / ウェクーウプ** **JKB1** **1-2= 設定有効(デフォルト)** **2-3= 設定無効にする**
Tastatur / Maus Energie ein /Aufwachen JKB1 1-2=Aktiviert (Standard) 2-3=Deaktiviert	1 JKB1 KB/Mouse Power on/Wake up 1-2 (default)　2-3	**키보드/마우스 전원-온/절전모드에서 해제** **JKB1** **1-2= 사용가능 (기본값)** **2-3= 사용금지**
Teclado/Ratón de Energía /Wakeup JKB1 1-2=Activado (por defecto) 2-3=Desactivado	**鍵盤/滑鼠 開機/喚醒 功能** **JKB1** **1-2 = 開啓功能 (預設值)** **2-3 = 關閉功能**	لوحة المفاتيح / فأرة التشغيل / الwake-up (الاستيقاظ) JKB1 2-1 مفعل (افتراضي) 3-2 غير مفعل

Effacement du CMOS JBAT1 1-2 Conservation des données (par défaut) 2-3 Effacement du CMOS	*Limpar dados do CMOS* JBAT1 1-2 Reter Dados (Padrão) 2-3 Limpar dados do CMOS	**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**
CMOS Daten löschen JBAT1 1-2 Daten erhalten (Standard) 2-3 CMOS Daten löschen	2 JBAT1 Clear CMOS 1-2 (default)　2-3	**CMOS 데이타 삭제** **JBAT1** **1-2 원래값 유지 (기본값)** **2-3 현재 CMOS 데이타 삭제**
Borrar el CMOS JBAT1 1-2 Retener Dados (por defecto) 2-3 Borrar el CMOS	**清除 CMOS 功能** **JBAT1** **1-2 記憶資料 (預設值)** **2-3 清除 CMOS 功能**	استعادة الوضع الافتراضي لنظام الدخل والخرج الأساسي JBAT1 2-1 = وضع الحفاظ على المعلومات (افتراضي) 3-2 = استعادة الوضع الافتراضي للمصنع

coupure du cpu quand surtempérature
Jp1
1-2 85°C surtempérature fonction de coupure du cpu disponible (activée) (par défaut)
2-3 Fonction de fermeture du cpu pour surtempérature désactivée

3 Jp1 **(ABSII) Overheated CPU Shutdown**



** Only for Athlon XP / Duron Morgan CPU*

CPUがオーバーヒートした際にシステムをシャットダウンさせる設定
Jp1
1-2：CPUの温度が85℃を超えた場合にシステムのシャットダウンを有効 にする (デフォルト)
2-3：CPUオーバーヒート時のシャットダウン設定を無効にする

Überhitzte CPU Runterfahren
Jp1
1-2 85°C Überhitzt CPU-Runterfahren Funktion eingeschaltet (Standard)
2-3 Überhitzte CPU Runterfahren-Funktion ausgeschaltet

Desligar CPU em sobreaquecimento
Jp1
1-2 Sobreaquecimento a 85°C (Padrão)
2-3 Função não selecionada de desligar CPU em sobreaquecimento

CPU 과열 방지 기능
(85℃이상으로 과열시)
Jp1
1-2: CPU 작동 자동 차단 (기본값)
2-3: CPU 과열시 작동 차단 안됨

CPU recalentado Apagar
Jp1
1-2 Apagado (por defecto) Recalentamiento a 85°C CPU apagado Función activada.
2-3 Cerrado CPU recalentado Apagar Función Desactivar.

CPU 過熱保護功能
Jp1
1-2 當CPU溫度在超過85°C時自動關機. (預設值)
2-3 關閉CPU過熱保護功能.

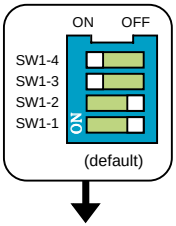
نظام إيقاف التشغيل عند ارتفاع حرارة المعالج
(يستخدم فقط مع المعالجات Athlon XP/ Duron Morgan)
Jp1
1-2 وضع تفعيل عملية إيقاف التشغيل عند ارتفاع حرارة المعالج إلى (85°C) وهو الوضع الافتراضي (افتراضي)
2-3 وضع إبطال عملية إيقاف التشغيل عند ارتفاع حرارة المعالج

Réglage des DIP Switches Schalter-Einstellungen Configuración de Switch Configuração de Switch

Switch 設定 スイッチのセッティング 스위치 세팅 الإعدادات الخاصة بمفاتيح التفعيل و الإبطال

4 SW1 (4-Dip)

Réglage de l'horloge système
System-Takt Einstellung
Adaptación del system clock
Ajuste do relógio de sistema
系統頻率調節
システム時計調節
시스템 클록의 조절
صبط تردد النظام



Overclock setting to Boot System
Démarrage du système en configuration d'overclocking
Übertaktungseinstellung zum Systemstart
Ajuste de Overclock para botar el sistema
Arranque do sistema com configuração de overclocking
設定系統開機頻率
超頻はシステムをけとばすためにセットしています
오버클럭 방법
الإعدادات الخاصة بعملية رفع التردد إلى مافوق تردد المعالج المتعلقة بإقلاع النظام

(default)

CPU Clock	CPU Auto Detection	100MHz	133MHz	166MHz	200MHz
SW1-4	On	Off	Off	Off	Off
SW1-3	On	Off	Off	Off	Off
SW1-2	Off	On	On	Off	Off
SW1-1	Off	On	Off	Off	On
					For KM400A only