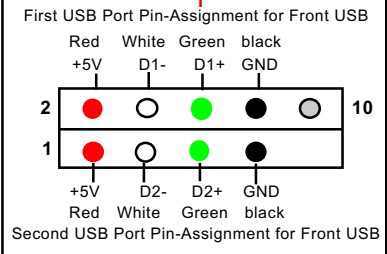
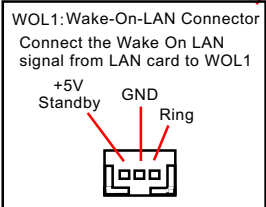
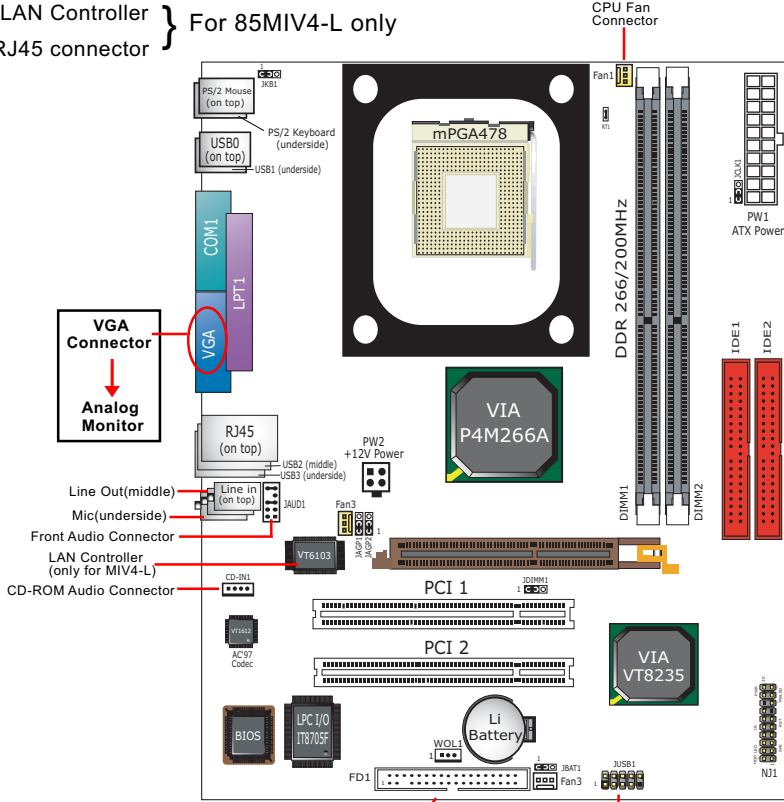


Chapter 1 Specification

1-1 Mainboard Layout and Components Setup

LAN Controller } For 85MIV4-L only
 RJ45 connector }



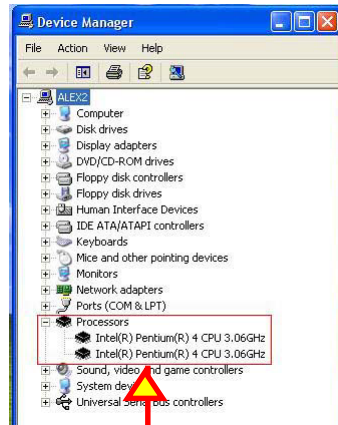
1-2 Mainboard Specification Table

SL-85MIV4 / 85MIV4-L Specifications and Features		
CPU	Socket 478B for Intel P4 CPUs (HT CPU included)	
North Bridge	VIA ProSavage P4M266A	
South Bridge	VIA VT8235	
BIOS	AMI BIOS	
Memory	Supporting DDR 266/200 SDRAM, up to 2GB in 2 DDR DIMM slots	
I/O Chip	ITE IT8705F	
AGP interface	AGP4X / 2X Mode; 1 AGP Slot on board	
Audio	AC'97 Audio V2.1 compliant, 2-channel audio	
IDE Interface	2 UATA 33/66/100/133 IDE ports	
Networking	Fast Ethernet Controller, RJ45 on board (Optional)	
PCI Slots	2 PCI Master slots on board	
I/O Connectors	6xUSB ports (V2.0), 1xFDD port, 1xCOM port, 1xLPT, 1xIrDA, 1xPS/2 K/B, 1xPS/2 Mouse	
VGA Display	1 x VGA connector on board for analog display	
Other Features	Keyboard/Mouse Power On/Wake up	
Optional Features	Models	
		85MIV4
LAN Controller on board	No	Yes

1-3 Pentium 4 CPU Installation

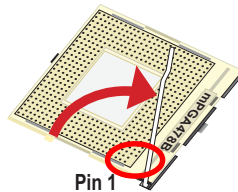
This mainboard is built with CPU Socket 478B (478-pin) supporting the Intel Pentium 4 CPU:

- Follow the steps described in this section to install the 478-pin Pentium 4 CPU into the on board Socket 478.
- After installation of Pentium 4 CPU, you must also install the specific Pentium 4 CPU fan designed in tandem with this CPU. This CPU Fan installation is described in next section.
- This mainboard supports Hyper-threading dual-in-one CPU, the function of which can be enabled by Windows XP. (See illustration on the right.)

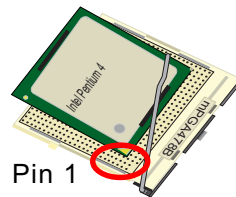


(If Hyper-threading CPU is installed successfully with O/S Win XP, the O/S will enable the dual-in-one CPU function.)

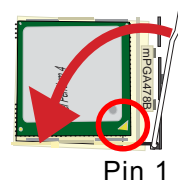
1. First pull sideways the lever of Socket 478, and then turn it up 90° so as to raise the upper layer of the socket from the lower platform.



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 socket with ease.

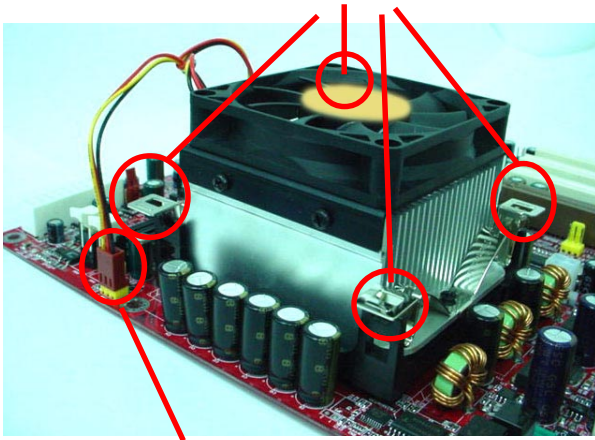


3. Make sure that all CPU pins have completely entered the socket and then lower down the lever to lock CPU to socket.



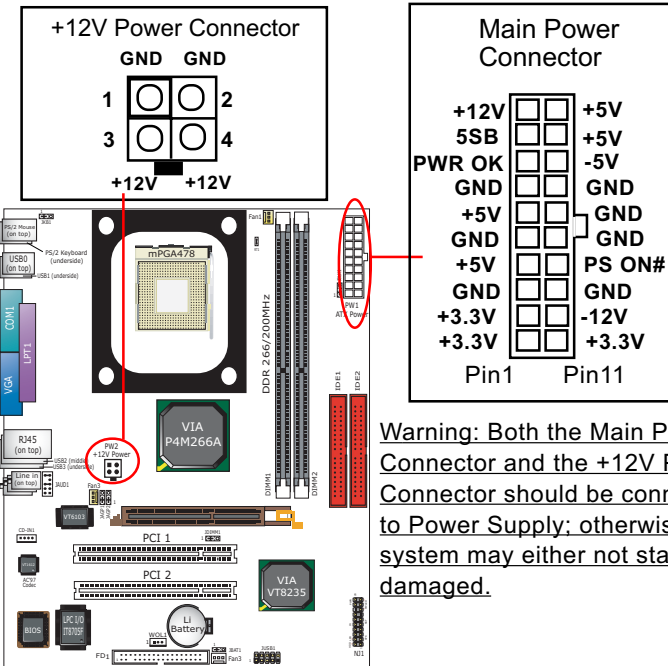
1-4 Pentium 4 CPU Fan Installation

Press down 4 corners to lock fan to fanbase



Connect Fan Connector to CPU FAN connector



1-5 ATX V 2.03 Power Supply Installation






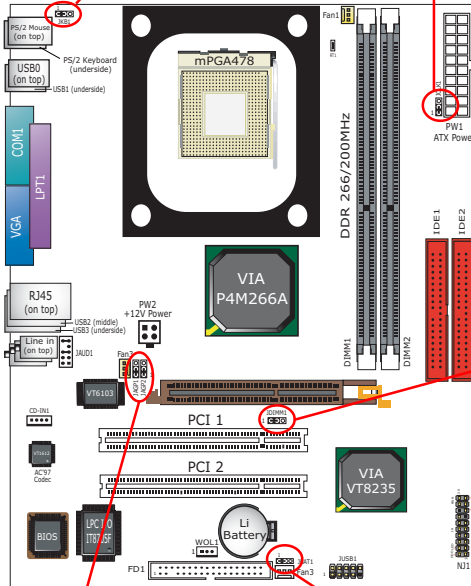
Warning: Both the Main Power Connector and the +12V Power Connector should be connected to Power Supply; otherwise, the system may either not start or be damaged.



1-6 Jumper Settings






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



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

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



JDIMM1 DIMM Voltage Select	
 1	1-2 closed (default) 2.5V
 1	2-3 closed 2.6V

JAGP1 & JAGP2: AGP Voltage Select					
(default)	1.5V	1.6V	1.7V		
JAGP1	 1	 1	 1	 1	 1

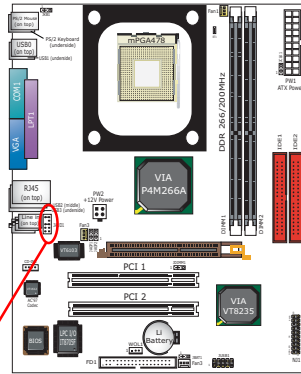
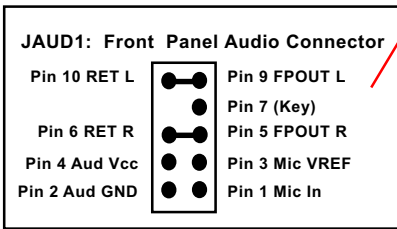
JBAT1 Clear CMOS	
 1	1-2 closed (default) To hold data
 1	2-3 closed To clear CMOS

1-7 Other Connectors Setup

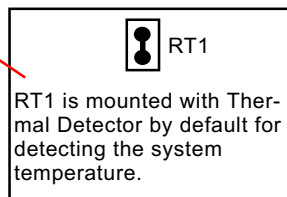
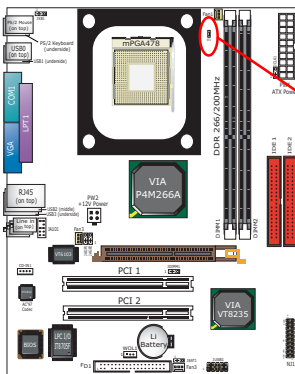
1-7.1 Front Audio Connector

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.

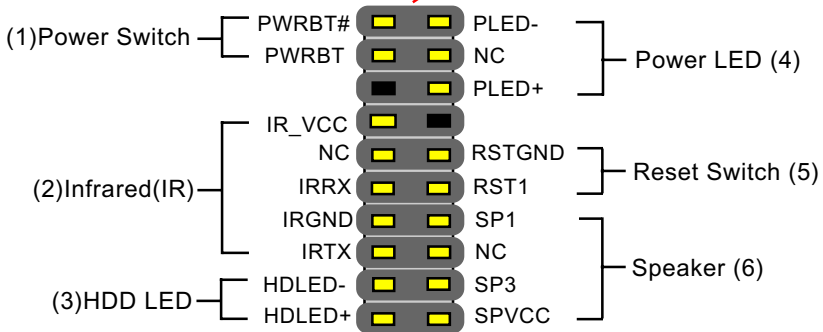
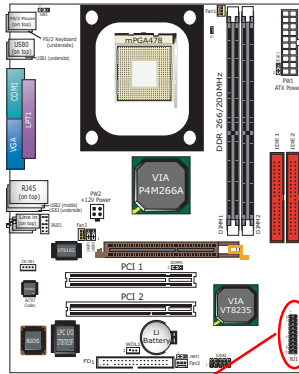


1-7.2 Thermal Detector



Detector RT1: A thermal detector is mounted by default to connector RT1 so as to detect the system temperature . What RT1 does is to transmit the thermal signal to Hardware Monitor.

1-7.3 Complex Header (Front Panel Connectors)



(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 automatic-ally appear, displaying the contents to be installed for this series:



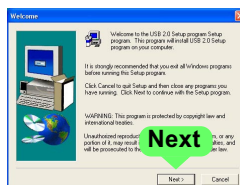
2-2 To Install VIA 4 in 1 Driver

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.

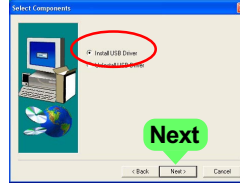
2-3 USB 2.0 Driver Installation

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:

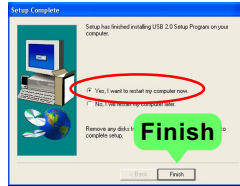
1. Update Windows XP with the latest service pack before installing VIA USB V2.0 Driver.
2. Following the procedures of opening the Support CD, click to choose "VIA USB 2.0 Driver" to proceed. Please notice that the USB card driver is different from the USB 2.0 driver typically for the on-board USB. 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.



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



- 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.



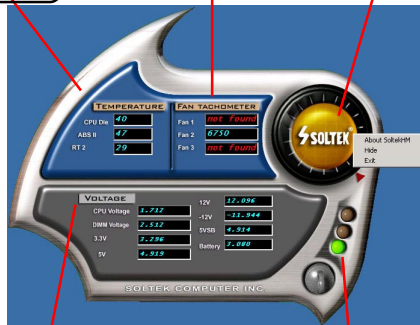
2-4 To Install Soltek Hardware Monitor

- Follow the instructions in the Auto-run program to install Soltek Hardware Monitor.
- To verify Soltek Hardware Monitor, please click "Start" and choose the following path: \All Programs\Soltek HM\Soltek HM
Then the Soltek HM Control Panel will pop out for application.

Showing the temperature(s), the function of which is supported by the mainboard.

Showing the Fan Speed(s) that is supported by the mainboard.

Click on "Soltek" button to display the function menu.



Showing the Voltage(s) that is supported by the mainboard.

Status Warning LED

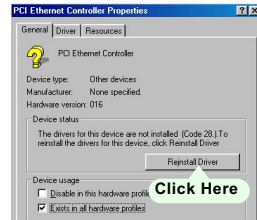
*Note: Not all items or functions showing in the above picture will show up. Only those items or functions that are supported by the mainboard will reveal themselves in the above screen.

2-5. To Install LAN Drivers (for 85MIV4-L only)

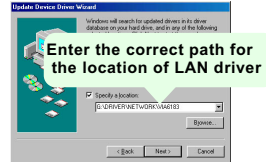
2-5.1 VIA6103 LAN Driver on Windows 9X

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.

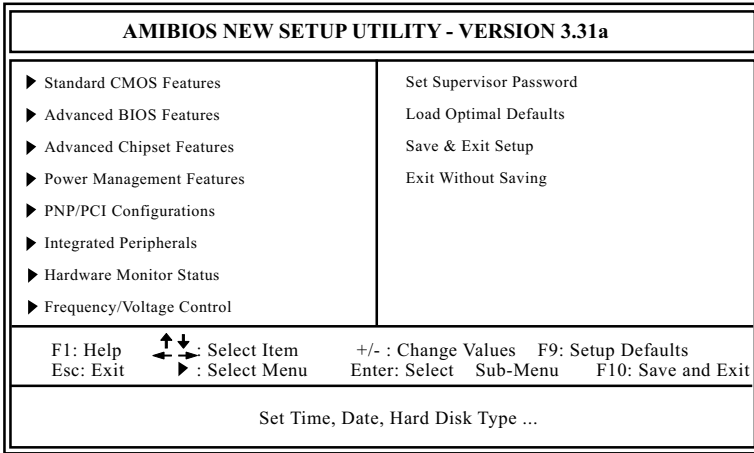
Step 4. Under “A” prompt, type “**AMIXXX.EXE *.ROM**” and then press <Enter> to run BIOS update program. Please note that there should be a space between AMIXXX.EXE and *.ROM. (*.ROM depends on your mainboard model and version code. Instead of typing “*”, you should type the specific file name for your 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 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. 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 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.)
- 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-85MIV4 / 85MIV4-L Quick Installation Guide

Brochage composite Gesamtübersicht Conector de dispositivos Conectores em Pinos

設備連接埠 複合ヘッダ 다목적 콘넥터 التوصيلات الداخلية

Interruptor de Força
Interruptor de Energia
System ein/aus Schalter
パワースイッチ
Conecteur du Switch Power On
電源開關
전원 스위치 연결
مفتاح الطاقة الكهربائية

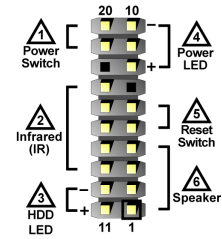
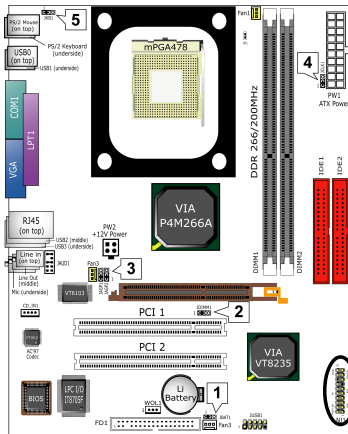
HDD LED
HDD LED
HDD LED
HDD LED
Conecteur du témoin d'activité du disque dur
硬碟指示燈
하드 드라이브 LED 연결
مؤشر ضوئي للقرص الصلب الأول

Interruptor de Reset
Interruptor de Reset
Neustart Schalter
리셋 스위치
Conecteur du bouton Reset
系統重設接頭
리셋 스위치 연결
مفتاح إعادة التشغيل

Infravermelho (IR)
Conector de infrarrojos
Infrarot
赤外線 (IR)
Conecteur IR (Infrarouge)
紅外線連接頭
자외선 콘넥터 (IR) 연결
أشعة تحت الحمراء

LED de Força
LED de Energia
Betriebsanzeige
電源 LED
Conecteur du témoin d'alimentation
電源指示燈
전원 LED 연결
مؤشر الطاقة الكهربائية الضوئي

Alto-falante
Altavoz
Lautsprecher
스피커
Conecteur du haut-parleur
喇叭接頭
스피커 연결
السماعات



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 الجامير

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 데이터를 삭제
JBAT1
1-2 데이터를記憶する (デフォルト)
2-3 CMOS 데이터를 삭제

CMOS Daten löschen
JBAT1
1-2 Daten erhalten (Standard)
2-3 CMOS Daten löschen

1 JBAT1 Clear CMOS

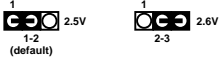
1-2 To hold data (default)
2-3 To clear CMOS

CMOS 데이터 삭제
JBAT1
1-2 원래값 유지 (기본값)
2-3 현재 CMOS 데이터 삭제

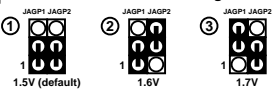
Borrar el CMOS
JBAT1
1-2 Retener Datos (por defecto)
2-3 Borrar el CMOS

清除 CMOS 功能
JBAT1
1-2 記憶資料 (預設值)
2-3 清除 CMOS 功能

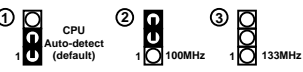
استعادة الوضع الافتراضي لنظام الدخل والخرج الأساسي
JBAT1
2-1 وضع الحفاظ على المعلومات (افتراضي)
3-2 استعادة الوضع الافتراضي للمصنع

<p>Sélection du voltage DIMM JDIMM1 1-2=2.5V (par défaut) 2-3=2.6V</p>	<p>Seleção de Voltagem dos Módulos de Memória JDIMM1 1-2=2.5V (Padão) 2-3=2.6V</p>	<p>メモリモジュール電圧セレクト JDIMM1 1-2=2.5V (デフォルト) 2-3=2.6V</p>
<p>Spannungs-Einstellung Speichermodule JDIMM1 1-2=2.5V (Standard) 2-3=2.6V</p>	<p>2 JDIMM1 DIMM Voltage Select </p>	<p>메모리 모듈 전압 선택 JDIMM1 1-2=2.5V (기본값) 2-3=2.6V</p>
<p>Configuración de Voltaje de Módulo de Memoria JDIMM1 1-2=2.5V (por defecto) 2-3=2.6V</p>	<p>記憶體電壓設定 JDIMM1 1-2=2.5V (預設值) 2-3=2.6V</p>	<p>ضبط الجهد الخاص بالذاكرة JDIMM1 2.5V = 2-1 (افتراضي) 2.6V = 3-2</p>

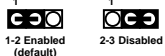


<p>Sélection du voltage AGP JAGP1 & JAGP2 ① 1.5V (par défaut) ② 1.6V ③ 1.7V</p>	<p>Seleção de Voltagem do AGP JAGP1 & JAGP2 ① 1.5V (Padão) ② 1.6V ③ 1.7V</p>	<p>AGP 電圧セレクト JAGP1 & JAGP2 ① 1.5V (デフォルト) ② 1.6V ③ 1.7V</p>
<p>AGP Spannungs-Einstellung JAGP1 & JAGP2 ① 1.5V (Standard) ② 1.6V ③ 1.7V</p>	<p>3 JAGP1 & JAGP2 AGP Voltage Select </p>	<p>AGP 전압 선택 JAGP1 & JAGP2 ① 1.5V (기본값) ② 1.6V ③ 1.7V</p>
<p>Selección de Voltaje de AGP JAGP1 & JAGP2 ① 1.5V (por defecto) ② 1.6V ③ 1.7V</p>	<p>AGP 電壓設定 JAGP1 & JAGP2 ① 1.5V (預設值) ② 1.6V ③ 1.7V</p>	<p>ضبط الجهد الخاص بسرعة مخرج بطاقة الإظهار JAGP1, JAGP2 1.5V ① (افتراضي) 1.6V ② 1.7V ③</p>



<p>Sélection de la fréquence du CPU JCLK1 ① Autodétection du CPU (par défaut) ② Pour une fréquence CPU de 100MHz ③ Pour une fréquence CPU de 133MHz</p>	<p>Seleção de Clock do CPU JCLK1 ① Detecção automática do CPU (Padão) ② Para 100MHz de Clock do CPU ③ Para 133MHz de Clock do CPU</p>	<p>CPU クロック設定 JCLK1 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</p>
<p>CPU Clock Einstellungen JCLK1 ① CPU Autodetect (Standard) ② Fur 100MHz CPU Clock ③ Fur 133MHz CPU Clock</p>	<p>4 JCLK1 CPU Frequency Select </p>	<p>CPU 클럭 선택법 JCLK1 ① CPU 클럭 자동 선택 (기본값) ② 100MHz CPU 클럭 선택 ③ 133MHz CPU 클럭 선택</p>
<p>Selección de Clock del CPU JCLK1 ① CPU Autodetect (por defecto) ② Para 100MHz CPU Clock ③ Para 133MHz CPU Clock</p>	<p>CPU 頻率設定 JCLK1 ① CPU 自動偵測 (預設值) ② 選擇 100MHz CPU 頻率 ③ 選擇 133MHz CPU 頻率</p>	<p>وضعت الوصلة JCLK1 واختيار سرعة تردد نقل المعالج ① اختيار تلقائي للسرعة (افتراضي) ② للسرعة 100 MHz للنقل ③ للسرعة 133 MHz للنقل</p>



<p>Allumage / Réveil par Clavier /Souris JKB1 1-2=Activée (par défaut) 2-3=Mis hors service</p>	<p>Ligar no Teclado/Rato de arranque / acordar JKB1 1-2=Habilitado (Padrão) 2-3=Desabilitado</p>	<p>キーボード / マウスの電源を入れること / ウェイクアップ JKB1 1-2=設定有効(デフォルト) 2-3=設定無効にする</p>
<p>Tastatur / Maus Energie ein /Aufwachen JKB1 1-2=Aktiviert (Standard) 2-3=Deaktiviert</p>	<p>5 JKB1 KB/Mouse Power on/Wake up </p>	<p>키보드 / 마우스 전원 -온 / 절전모드에서 해제 JKB1 1-2=사용가능 (기본값) 2-3=사용금지</p>
<p>Teclado/Ratón de Energía /Wakeup JKB1 1-2=Activado (por defecto) 2-3=Desactivado</p>	<p>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</p>	<p>لوحة المفاتيح / فارة التشغيل / wake-up (الاستيقاظ) JKB1 2-1 مفعّل (افتراضي) 3-2 غير مفعّل</p>