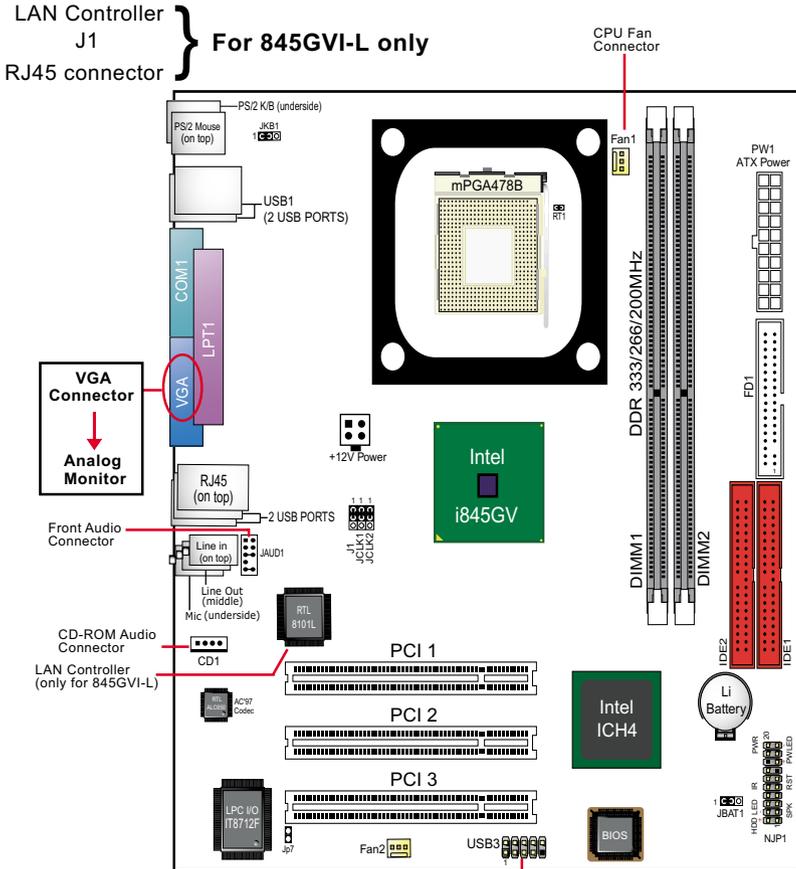


# Chapter 1 Specification

## 1-1 Mainboard Layout and Components Setup

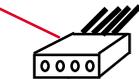
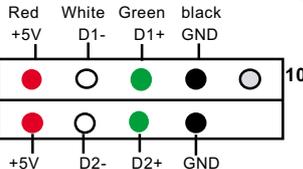


**For 845GVI-L only :**

- (1) LAN Controller
- (2) RJ45
- (3) J1 (to enable LAN controller)

**Use a 4-pin connector to connect USB pin-header to 1 USB port**

First USB Port Pin-Assignment for 1 Front USB port



4-pin connector to support 1USB port only.

## 1-2 Mainboard Specification Table

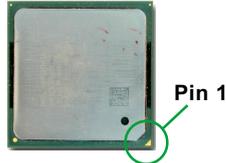
SL-845GVI / 845GVI-L Specifications and Features			
CPU	Socket 478B for Intel P4 CPU (Hyper Threading and Prescott include)		
North Bridge	Intel 845GV, supporting *800/533/400MHz FSB		
South Bridge	Intel ICH4		
BIOS	AMI BIOS		
Memory	Supporting DDR 333/266/200 DRAM, up to 2GB in two DDR DIMM slots		
I/O Chip	IT8712F		
Audio	AC'97 Audio V2.2 compliant, 6-channel audio		
IDE Interface	2 UATA 33/66/100 IDE ports		
Networking	Fast Ethernet Controller, 1 RJ45 (for 845GVI-L)		
PCI Slots	3 PCI Master slots on board		
I/O Connectors	6 USB ports , 1 FDD port, 1 COM port, 1 LPT, 1 IrDA, 1 PS/2 K/B, 1 PS/2 Mouse,		
VGA Display	1 VGA connector on board for CRT VGA display		
Other Features	Keyboard/ Mouse Power On/Wake Up ATX 2.03 Power Supply; Micro-ATX form factor		
Optional Features	Models		
		845GVI	845GVI-L
LAN Controller on board		No	Yes

\* FSB 800 is unguaranteed overclock support.

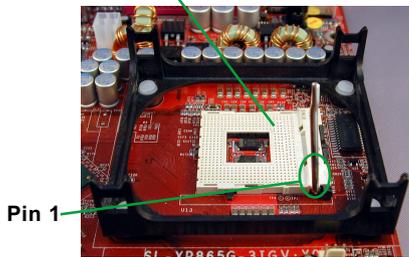
### 1-3 CPU and CPU Fan Installation with Socket 478B

#### 1-3.1 CPU Installation with Socket 478B

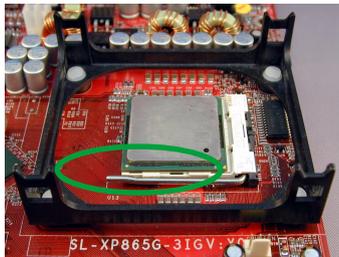
(1) Pentium 4 CPU



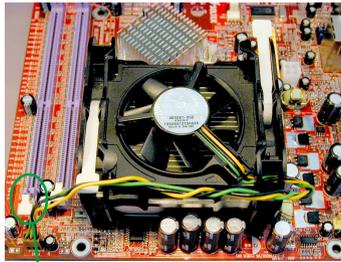
(2) Pull up the lever and insert P4 CPU into socket 478



(3) Pull down the lever to fix down CPU



(4) Load down the P4 CPU Fan into Fan base

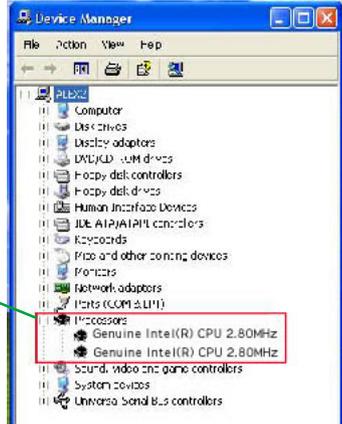


Connect Fan Power cable to onboard FAN connector

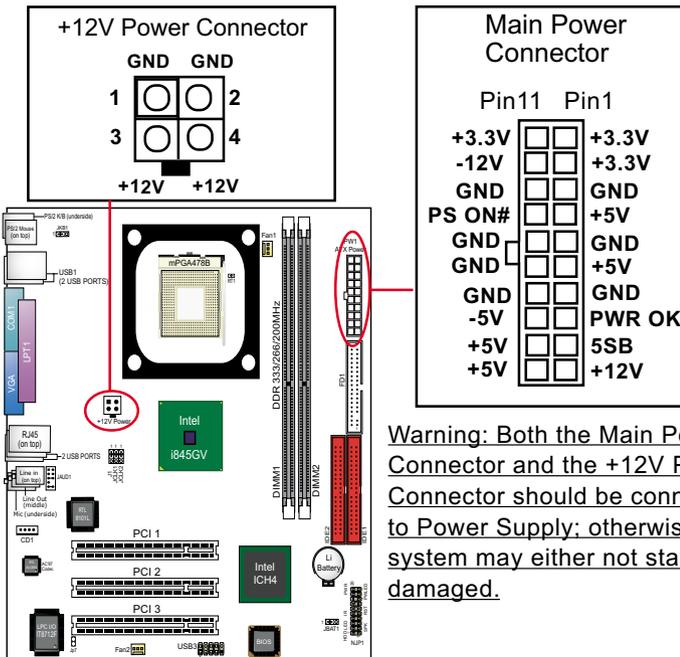
### 1-3.2 Hyper-threading CPU supported by Win XP

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.)



### 1-4 ATX V 2.03 Power Supply Installation

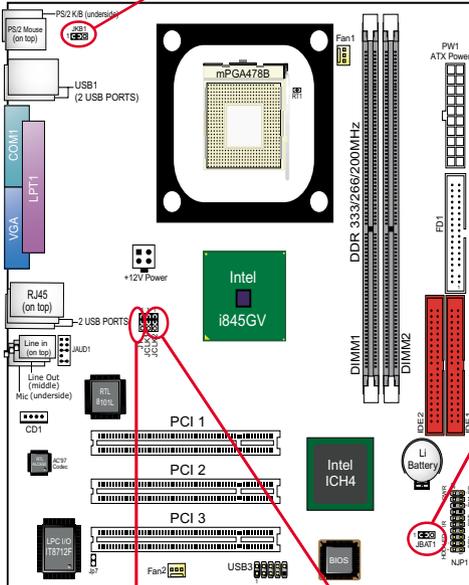


Warning: Both the Main Power Connector and the +12V Power Connector should be connected to Power Supply; otherwise, the system may either not start or be damaged.

### 1-5 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) Disabled
1 	2-3 closed Enabled



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

J1: LAN Controller Select (845GVI-L only)	
1 	1-2 closed (default) LAN controller enabled
1 	2-3 closed LAN controller disabled

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

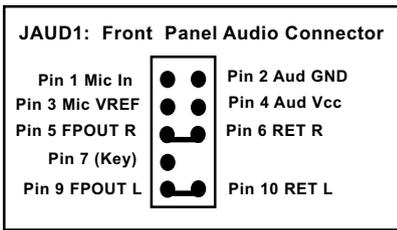
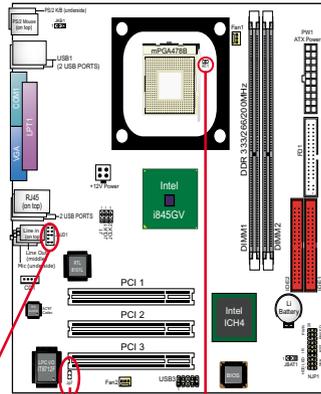
\* FSB 800 is unguaranteed overclock support.

## 1-6 Other Connectors Setup

### 1-6.1 Front Audio Connector

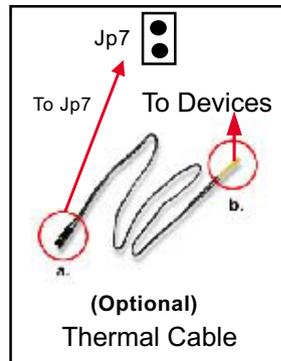
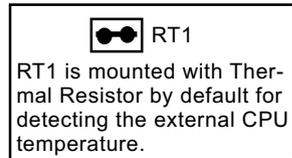
This Mainboard is designed with a Front Panel Audio connector “JAUD1” which provides connection to your chassis.

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.

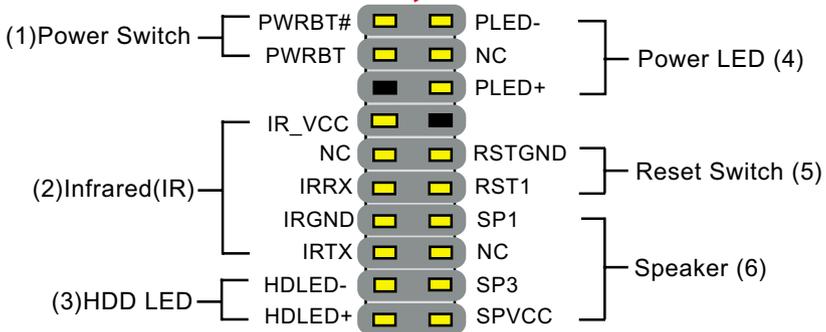
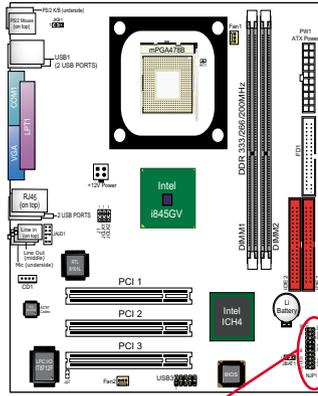


### 1-6.2 Thermal Resistor and Connector

1. Resistor RT1: A thermal resistor is mounted by default to connector RT1 so as to detect the external CPU temperature . What RT1 does is to transmit the thermal signal to Hardware Monitor.
2. Connector Jp7: A thermal cable is needed to connect Jp7 to on-board devices such as HDD, Graphics card etc., so as to detect the temperature generated therein. Please connect the end (a) of the thermal cable to Jp7, and tape another end (b) of thermal cable on to the device which you want to monitor. After you have finished the thermal cable installation, you will **see the detected temperature in BIOS setup or Hardware Monitor utility.**



### 1-6.3 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

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:

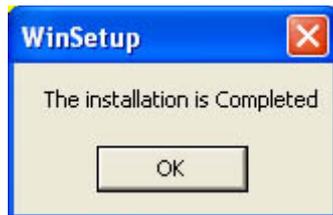


2. Start driver and software installation from the first item and finish all to optimize your system.

## 2-2 Some Installation Illustrations

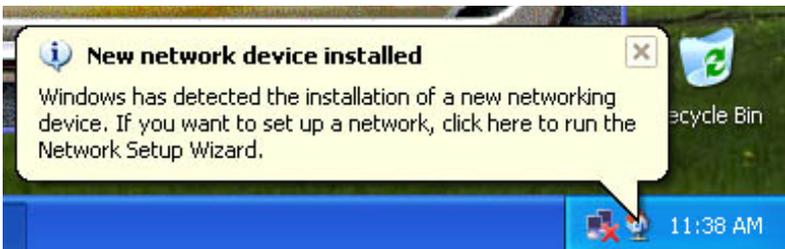
### 2-2.1 LAN Driver Installation

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 "installShield Wizard" screen appears to guide you through the "Avance AC'97 Audio 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"

"Synchronize the phonejack switch with the speakers settings"

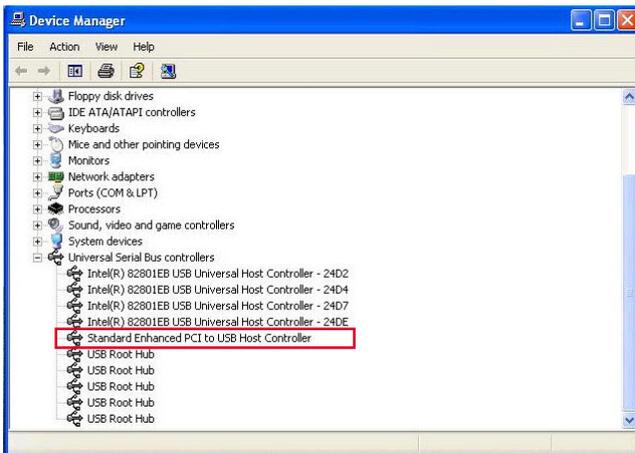
#### "The Speakers Test"



### 2-2 5 To Install USB 2.0 Driver for Windows 2000/XP

USB V2.0 with its 480Mb/s transfer rate supports operating system Windows 2000 and Windows XP via the Windows 2000 and Windows XP Service Pack. For archieving Intel USB 2.0 support, users should install the latest Service Pack for Windows 2000 or Windows XP. (intel USB 2.0 does not support Windows 9X/ME.)

1. After installation of Intel Chipset software installation Utility in Windows 2000 or Windows XP, start to install the latest Service Pack version into the operating system. The installation of the latest Service Pack will support USB2.0 in Windows 2000 or Windows XP now.(The latest Service Pack can be found in Microsoft Web Site.)
2. To verify USB2.0 installation, please enter “Device Manager” of “My Computer”. On the “Device Manager” screen, you should be able to see the item “Standard Enhanced PCI to USB Host Controller”, verifying USB2.0 Driver is installed successfully.



# 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.

**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.

AMIBIOS NEW SETUP UTILITY - VERSION 3.31a	
▶ Standard CMOS Features	Set Supervisor Password
▶ Advanced BIOS Features	Load Optimal Defaults
▶ Advanced Chipset Features	Save & Exit Setup
▶ Power Management Features	Exit Without Saving
▶ PNP/PCI Configurations	
▶ Integrated Peripherals	
▶ Hardware Monitor Status	
▶ Frequency/Voltage Control	
F1: Help    ↑↓ : Select Item    +/- : Change Values    F9: Setup Defaults    ←→ : Select Menu    Enter: Select    Sub-Menu F10: Save and Exit	
Set Time, Date, Hard Disk Type ...	

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.)

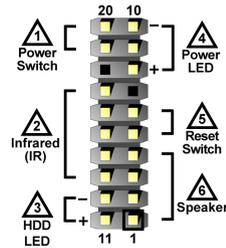
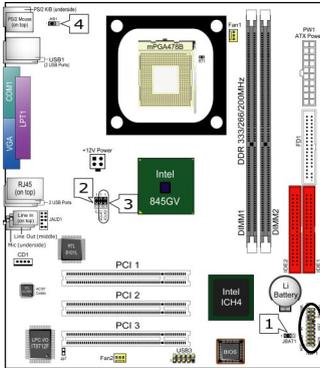
**SL-845GVI / 845GVI-L Quick Installation Guide**

Brochage composite Gesamtübersicht Conector de dispositivos  
 Conectores em Pinos Совмещённая контактная площадка (pin-header)

**複合ヘッダ 設備連接埠**

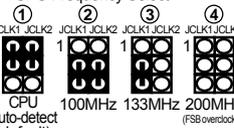
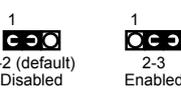
التوصيلات الداخلية

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



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

<p><b>Effacement du CMOS</b>                  JBAT1                  1-2 Conservation des données (par défaut)                  2-3 Effacement du CMOS</p>	<p><b>Очистка CMOS</b>                  (энергонезависимой памяти)                  JBAT1                  1-2=Для сохранения данных (По умолчанию)                  2-3=Для очистки CMOS</p>	<p><b>CMOS Daten löschen</b>                  JBAT1                  1-2 Daten erhalten (Standard)                  2-3 CMOS Daten löschen</p>
<p><b>Limpar dados do CMOS</b>                  JBAT1                  1-2 Reter Dados (Padrão)                  2-3 Limpar dados do CMOS</p>	<p><b>1 JBAT1 Clear CMOS</b></p> <p>1 1  </p> <p>1-2 (default) 2-3                  To hold data To clear CMOS</p>	<p><b>Borrar el CMOS</b>                  JBAT1                  1-2 Retener Datos (por defecto)                  2-3 Borrar el CMOS</p> <p>استعادة الوضع الافتراضي لنظام الدخل والخروج الأساسي                  JBAT1                  1-2 وضع الحفاظ على المعلومات (افتراضي)                  2-3 استعادة الوضع الافتراضي للمصنع</p>
<p><b>CMOS データを消却</b>                  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><b>CMOS</b>                  JBAT1                  1-2 ( )                  2-3 CMOS</p>	<p><b>清除 CMOS 功能</b>                  JBAT1                  1-2 記憶資料 (預設值)                  2-3 清除 CMOS 功能</p>

<p><b>Sélection du contrôleur LAN</b> J1 (uniquement sur la SL-845GVI-L) 1-2=LAN activé (par défaut) 2-3=LAN désactivé</p>	<p><b>Выбор LAN-контроллера</b> J1 (только для модели SL-845GVI-L) 1-2= Включено (По умолчанию) 2-3= Выключено</p>	<p><b>LAN Controller Ausgewählt</b> J1 (Nur SL-845GVI-L) 1-2=Lan zur Verfügung (Standard) 2-3=Lan nicht verfügbar</p>
<p><b>Seleção de Controladora de Rede</b> J1 (somente SL-845GVI-L) 1-2=Habilitar Rede (padrão) 2-3=Desabilitar Rede</p>	<p><b>2 J1 LAN Controller Select</b> (For SL-845GVI-L only)</p> 	<p><b>Selección del LAN Controller</b> J1 (SL-845GVI-L solamente) 1-2=LAN Activado (por defecto) 2-3=LAN Desactivado</p> <p>الاختيار الخاص بطاقة الشبكة ( فقط للموديل SL-845GVI-L ) J1 تفعيل بطاقة الشبكة ( افتراضي ) = 2-1 3-2 ابطال بطاقة الشبكة = 3-2</p>
<p><b>LAN 装置の設定</b> J1 ( SL-845GVI-L のみ搭載 ) 1-2=LAN を使用する場合 ( デフォルト ) 2-3=LAN を使用しない場合</p>	<p><b>LAN</b> J1 ( SL-845GVI-L ) 1-2=LAN ( ) 2-3=LAN</p>	<p><b>LAN 装置設定</b> J1 ( 僅供給 SL-845GVI-L ) 1-2= 開閉 LAN 機能(預設値) 2-3= 開閉 LAN 機能</p>
.....		
<p><b>Sélection de la fréquence du CPU</b> JCLK1 &amp; 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><b>Выбор частоты процессора</b> JCLK1 &amp; 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><b>GPU Clock Einstellungen</b> JCLK1 &amp; JCLK2 ① CPU Autodetect (Standard) ② Fur 100MHz CPU Clock ③ Fur 133MHz CPU Clock ④ Fur 200MHz CPU Clock</p>
<p><b>Seleção de Clock do CPU</b> JCLK1 &amp; 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><b>3 JCLK1 &amp; JCLK2</b> CPU Frequency Select</p> 	<p><b>Selección de Clock del CPU</b> JCLK1 &amp; JCLK2 ① CPU Autodetect (por defecto) ② Para 100MHz CPU Clock ③ Para 133MHz CPU Clock ④ Para 200MHz CPU Clock</p> <p>JCLK1 &amp; JCLK2 توصيات لوصف واختيار سرعة تردد نقل المعالج ① اختيار تلقائي للسرعة ( افتراضي ) ② للسرعة 100 MHz للتلال ③ للسرعة 133 MHz للتلال ④ للسرعة 200 MHz للتلال</p>
<p><b>CPU クロック設定</b> JCLK1 &amp; 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><b>CPU</b> JCLK1 &amp; JCLK2 ① CPU ( ) ② 100MHz CPU ③ 133MHz CPU ④ 200MHz CPU</p>	<p><b>CPU 頻率設定</b> JCLK1 &amp; 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><b>Allumage / Réveil par Clavier/Souris</b> JKB1 1-2=Mis hors service (par défaut) 2-3=Activée</p>	<p><b>Включение питания/выход из режима ожидания при активности клавиатуры/мыши</b> JKB1 1-2= Выключено (По умолчанию) 2-3= Включено</p>	<p><b>Tastatur / Maus Energie ein/Aufwachen</b> JKB1 1-2=Deaktiviert (Standard) 2-3=Aktiviert</p>
<p><b>Ligar no Teclado/Rato de arranque/acordar</b> JKB1 1-2=Desabilitado (Padrão) 2-3=Habilitado</p>	<p><b>4 JKB1 KB/Mouse Power on/Wake up</b></p> 	<p><b>Teclado/Ratón de Energía /Wake up</b> JKB1 1-2=Desactivado (por defecto) 2-3=Activado</p> <p>التشغيل عبر اميزة التشغيل لوحة المفاتيح افازة JKB1 2-1 غير مفعل ( افتراضي ) 3-2 مفعل</p>
<p><b>キーボード / マウスカの電源を入れること / ウェークアップ</b> JKB1 1-2= 設定無効にする(デフォルト) 2-3= 設定有効</p>	<p><b>JKB1</b> 1-2= ( ) 2-3= ㄱ</p>	<p><b>鍵盤 / 滑鼠 開機 / 喚醒 功能</b> JKB1 1-2 = 關閉功能 (預設值) 2-3 = 開啟功能</p>