Chapter 1 Specification

1-1 Mainboard Layout and Components Setup

CPU Fan Connector

PS/2 K/B (underside)
PS/2 Mouse (on top)
JKB1
USB1 (2 USB Ports)
COM1
LPT1

VGA Connector

↓

Analog Monitor

Fan1
mPGA478B
RT1

PW1 ATX Power

DDR *333/266/200MHz   (DDR 333MHz – unguaranteed overclock support)

DIMM1   DIMM2

FD1

VGA

+12V Power

Intel 845GL

RJ45 (on top)

Front Audio Connector

2 USB Ports

Line in (on top)
JAUD1
Line Out (middle)
Mic (underside)

CD-ROM Audio Connector
CD1

LAN Controller (for 845GLI-L)

RTL 8101L

IDE2   IDE1

PCI 1

AC'97 RTL ALC65

PCI 2

Intel ICH4

Li Battery

PCI 3

LPC I/O IT8712F

Jp7   Fan2

USB3

BIOS

PWR
IR
HDD LED
SPK
JBAT1
NJP1

RST
PWLED

For 845GLI-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

| Red | White | Green | black |
| +5V | D1- | D1+ | GND |

2 ● ○ ● ● ○ **10**

1 ● ○ ● ●

| +5V | D2- | D2+ | GND |
| Red | White | Green | black |

Second USB Port Pin-Assignment for another Front USB port

4-pin connector to support 1USB port only.
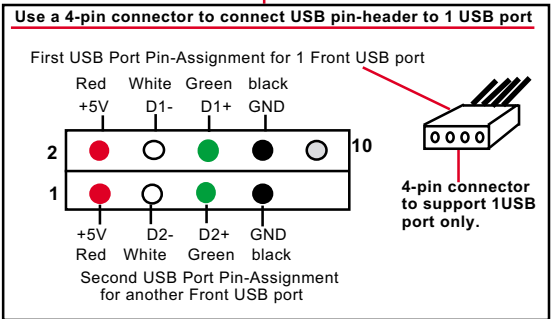
1-2 Mainboard Specification Table

SL-845GLI / 845GLI-L Specifications and Features		
CPU	Socket 478B for Intel P4 CPU (Hypere Threading and Prescott CPU included)	
North Bridge	Intel 845GLI, supporting 400/*533MHz 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 845GLI-L)	
PCI Slots	2 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	
Models Optional Features	845GLI	845GLI-L
LAN Controller on board	No	Yes

* FSB 533 and DDR 333 are unguaranted overclock support.
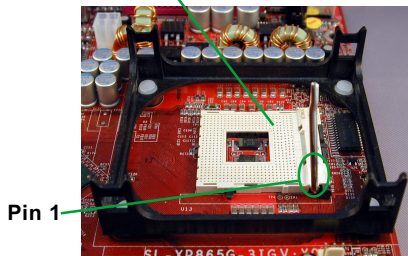
1-3 CPU and CPU Fan Installation with Socket 478B
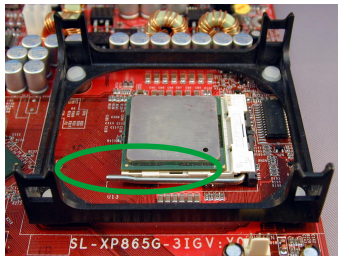
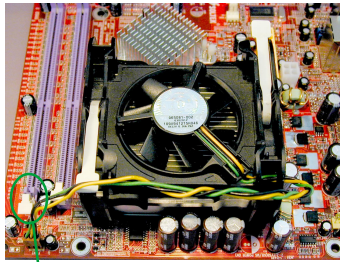## 1-3.1 CPU Installation with Socket 478B

(1) Pentium 4 CPU

Pin 1

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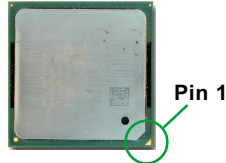
(2) Pull up the lever and insert P4 CPU into socket 478

Pin 1

─ ─

(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.)
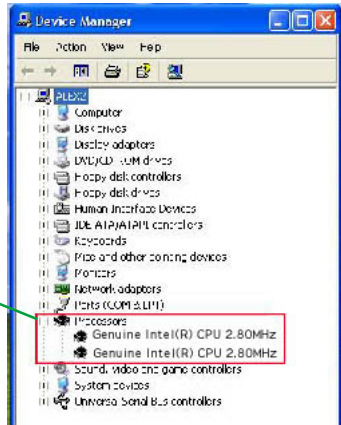
1-4 ATX V 2.03 Power Supply Installation

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.
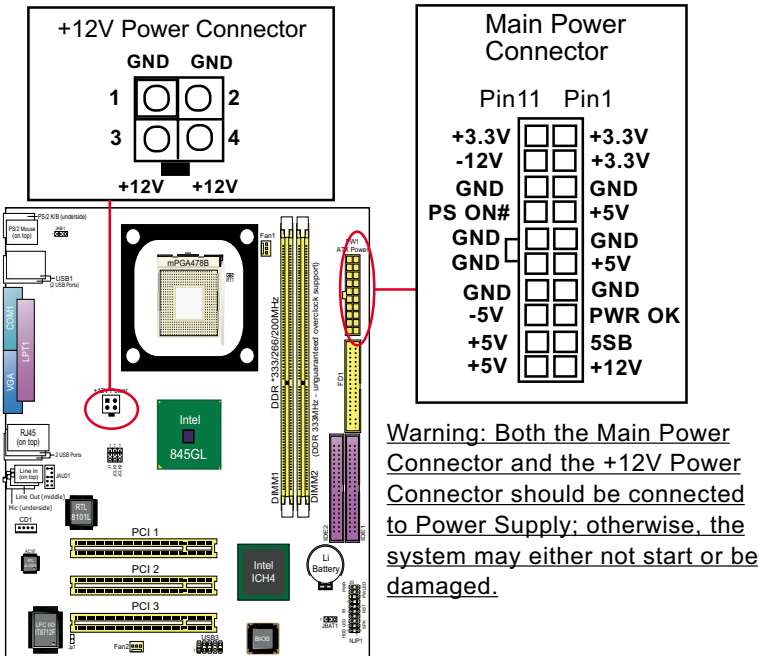
1-5 Jumper Settings

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
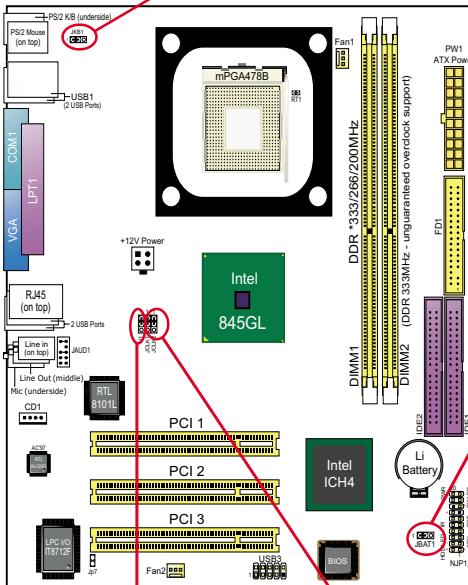
**JBAT1
Clear CMOS**

⊂●○ 1	**1-2 closed (default)** To hold data
○●⊃ 1	**2-3 closed** To clear CMOS

**J1:
LAN Controller Select**
(845GLI-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)
JCLK1 JCLK2	JCLK1 JCLK2	JCLK1 JCLK2	JCLK1 JCLK2

* FSB 533/800 is unguaranteed overclock support.

Board diagram labels: PS/2 KB (underside), PS/2 Mouse (on top), JKB1, Fan1, RT1, PW1 ATX Power, mPGA478B, USB1 (2 USB Ports), COM1, LPT1, VGA, +12V Power, Intel 845GL, RJ45 (on top), 2 USB Ports, Line in (on top), JAUD1, Line Out (middle), Mic (underside), RTL 8101L, CD1, PCI 1, AC'97, PCI 2, Intel ICH4, Li Battery, PCI 3, LPC I/O IT8712F, Jp7, Fan2, USB3, BIOS, JBAT1, NJP1, DDR *333/266/200MHz (DDR 333MHz - unguaranteed overclock support), DIMM1, DIMM2, FD1, IDE2, IDE1

1-6 Other Connectors Setup
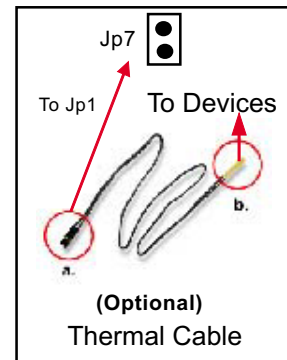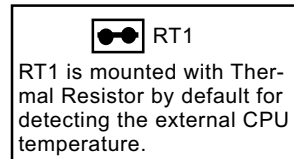
1-6.1 Front Audio Connector

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.

JAUD1: Front Panel Audio Connector

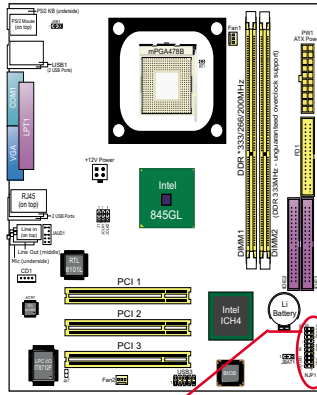|	
Pin 10 RET L	Pin 9 FPOUT L
	Pin 7 (Key)
Pin 6 RET R	Pin 5 FPOUT R
Pin 4 Aud Vcc	Pin 3 Mic VREF
Pin 2 Aud GND	Pin 1 Mic In

Jp7   RT1
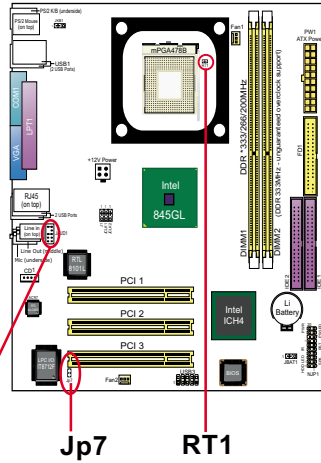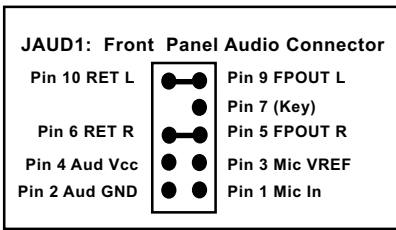
1-6.2 Thermal Resistor and Connector

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.

RT1

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

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.**

Jp7

To Jp1   To Devices

b.

a.

(Optional)
Thermal Cable

1-6.3 Complex Header (Front Panel Connectors)

Connect these connectors to PC Front Panel

(1)Power Switch
PWRBT#
PWRBT

PLED-
NC
PLED+
Power LED (4)

(2)Infrared(IR)
IR_VCC
NC
IRRX
IRGND
IRTX

RSTGND
RST1
Reset Switch (5)

SP1
NC
Speaker (6)

(3)HDD LED
HDLED-
HDLED+

SP3
SPVCC

11
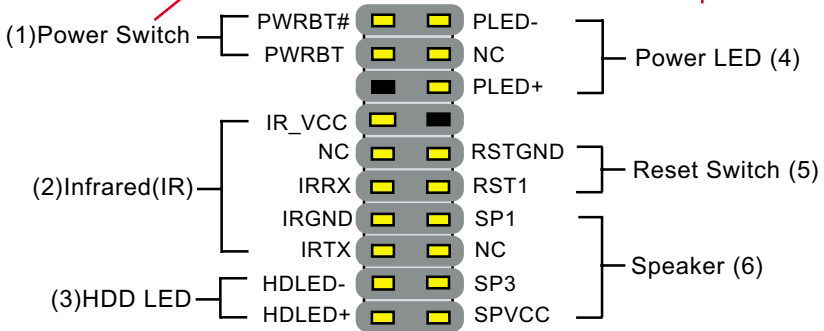
Chapter 2 Software Setup

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:
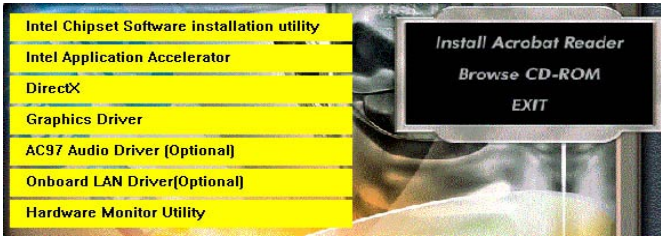

2. Start driver and software installation from the first item and finish all to optimize your system.

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.
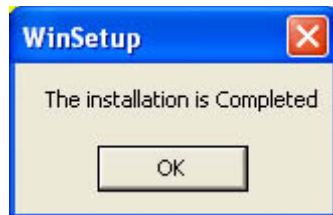
2-2.2 LAN Driver Verification

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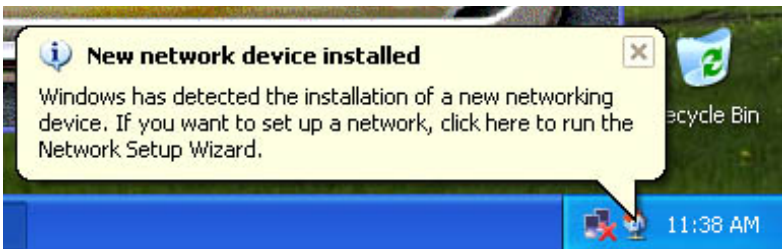
### 2-2.3 Installing AC'97 6-channel Audio Driver

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.
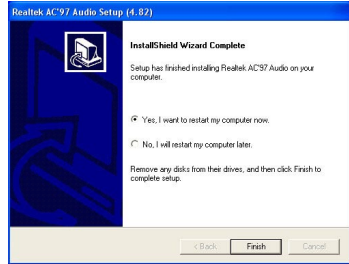
2-2.4 Verifying 6-channel Audio

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. Clikc 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.
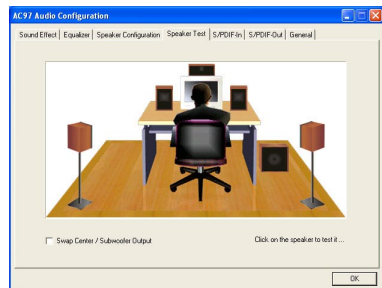
"Speaker Configuration"   **"The Speakers Test"**
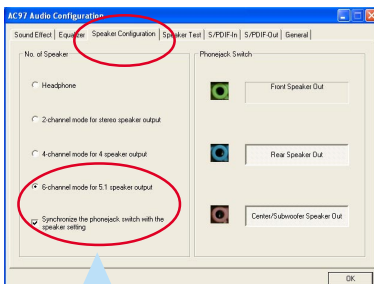
"6-channel mode for 5.1 speakers output"

" Synchronize the phonejack switch with the speakers settings"

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.
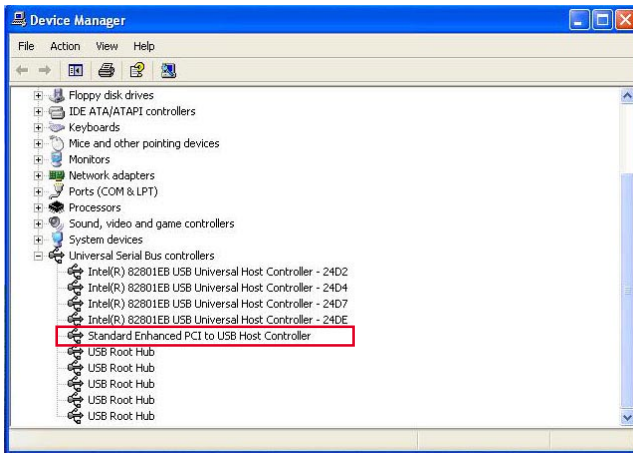
Chapter 3 AMI BIOS Setup

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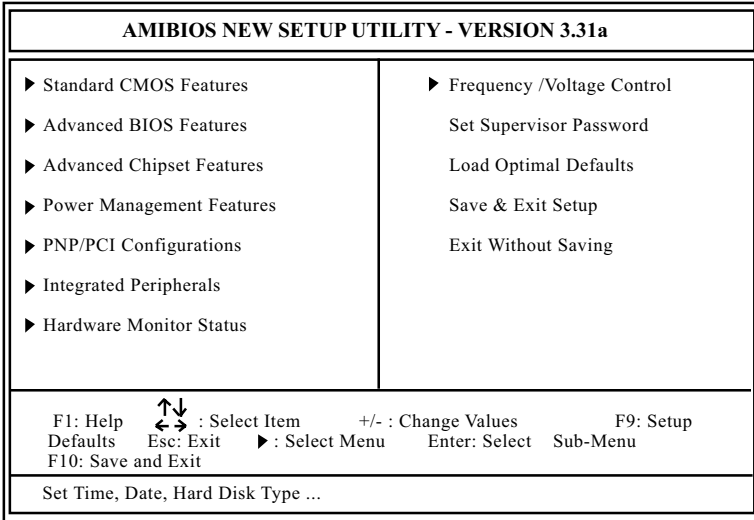
Step 5. When the message "Flash ROM Update Completed - Pass." appears, please restart your system.

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	▶ Frequency /Voltage Control
▶ Advanced BIOS Features	Set Supervisor Password
▶ Advanced Chipset Features	Load Optimal Defaults
▶ Power Management Features	Save & Exit Setup
▶ PNP/PCI Configurations	Exit Without Saving
▶ Integrated Peripherals	
▶ Hardware Monitor Status	

F1: Help   ↑↓ ←→ : Select Item   +/- : Change Values   F9: Setup
Defaults   Esc: Exit   ▶ : Select Menu   Enter: Select   Sub-Menu
F10: Save and Exit

Set Time, Date, Hard Disk Type ...

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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.)
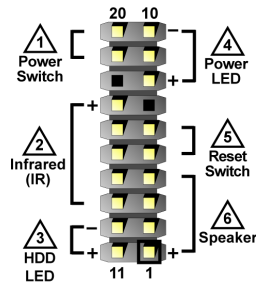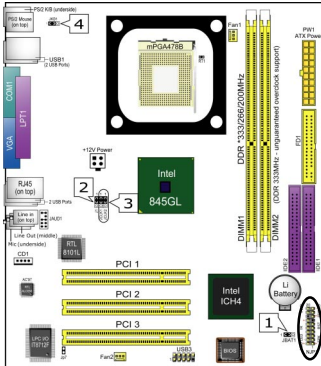
SL-845GLI / 845GLI-L Quick Installation Guide

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

التوصيلات الداخلية

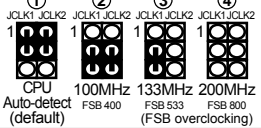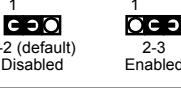|		
△1 Interruptor de Força Interruptor de Energía System ein/aus Schalter Connecteur du Switch Power On Разъём для выключателя питания мощности مفتاح الطاقة الكهربائية	**△3** HDD LED HDD LED HDD LED Connecteur du témoin d'activité du disque dur Разъём для светодиода HDD (HDD LED) HDD LED LED مؤشر ضوئي للقرص الصلب الأول	**△5** Interruptor de Reset Interruptor de Reset Neustart Schalter Connecteur du bouton Reset Разъём для кнопки перезагрузки (Reset) مفتاح إعادة التشغيل
△2 Infravermelho (IR) Conector de infrarrojos Infrarot Connecteur IR (Infrarouge) Разъём для инфракрасного порта I R (I R) أشعة تحت الحمراء	**△4** LED de Força LED de Energía Betriebsanzeige Connecteur du témoin d'alimentation Разъём для светодиода питания (Power LED) LED LED مؤشر الطاقة الكهربائية الضوئي	**△6** Alto-falante Altavoz Lautsprecher Connecteur du haut-parleur Разъём для динамика (PC-speaker) السماعات

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

إعدادات الجامبر

Effacement du CMOS JBAT1 1-2　Conservation des données (par défaut) 2-3　Effacement du CMOS	*Очистка CMOS (энергонезависимой памяти)* JBAT1 1-2=Для сохранения данных (По умолчанию) 2-3=Для очистки CMOS	*CMOS Daten löschen* JBAT1 1-2　Daten erhalten (Standard) 2-3　CMOS Daten löschen
Limpar dados do CMOS JBAT1 1-2　Reter Dados (Padrão) 2-3　Limpar dados do CMOS	**1** JBAT1 Clear CMOS 1　　　　　　1 1-2 (default)　　2-3 To hold data　　To clear CMOS	*Borrar el CMOS* JBAT1 1-2　Retener Dados (por defecto) 2-3　Borrar el CMOS استعادة الوضع الافتراضي لنظام الدخل والخرج الأساسي JBAT1 2-1 = وضع الحفاظ على المعلومات (افتراضي) 3-2 = استعادة الوضع الافتراضي للمصنع
CMOS JBAT1 1-2 2-3 CMOS	CMOS JBAT1 1-2　　　　　( ) 2-3　　CMOS	CMOS JBAT1 1-2　　　( ) 2-3　CMOS

Sélection du contrôleur LAN
J1 (uniquement sur la SL-845GLI-L)
1-2=LAN activé (par défaut)
2-3=LAN désactivé

Seleção de Controladora de Rede
J1 (somente SL-845GLI-L)
1-2=Habilitar Rede (padrão)
2-3=Desabilitar Rede

LAN
J1　SL-845GLI-L
1-2=LAN

2-3=LAN

Выбор LAN-контроллера
J1 (только для модели SL-845GLI-L)
1-2= Включено (По умолчанию)
2-3= Выключено

2 J1 LAN Controller Select
(For SL-845GLI-L only)

1-2 (default) — Enabled
2-3 — Disabled

LAN
J1　(SL-845GLI-L　　　)
1-2=LAN　　(　　)
2-3=LAN

LAN Controller Ausgewählt
J1 (Nur SL-845GLI-L)
1-2=Lan zur verfügung (Standard)
2-3=Lan nicht verfügbar

Selección del LAN Controller
J1 (SL-845GLI-L solamente)
1-2=LAN Activado (por defecto)
2-3=LAN Desactivado

الإختيار الخاص بطاقة الشبكة
J1 (فقط للموديل SL-845GLI-L)
2-1 = تفعيل بطاقة الشبكة (افتراضي)
3-2 = إبطال بطاقة الشبكة

LAN
J1　(　　　SL-845GLI-L)
1-2=　　LAN　(　　)
2-3=　　LAN

. . . .

Sélection de la fréquence du CPU
JCLK1 & JCLK2
①Autodétection du CPU (par défaut)
②Pour une fréquence CPU de 100MHz
③Pour une fréquence CPU de 133MHz
④Pour une fréquence CPU de 200MHz

Seleção de Clock do CPU
JCLK1 & JCLK2
①Detecção automática do CPU (Padão)
②Para 100MHz de Clock do CPU
③Para 133MHz de Clock do CPU
④Para 200MHz de Clock do CPU

CPU
JCLK1 & JCLK2
① **CPU**

② **100MHz**
③ **133MHz**
④ **200MHz**

Выбор частоты процессора
JCLK1 & JCLK2
①Авто-определение частоты процессора (По умолчанию)
②Для установки частоты процессора 100 МГц
③Для установки частоты процессора 133 МГц
④Для установки частоты процессора 200 МГц

3 JCLK1 & JCLK2
CPU Frequency Select

① JCLK1 JCLK2　② JCLK1 JCLK2　③ JCLK1 JCLK2　④ JCLK1 JCLK2

CPU Auto-detect (default) — 100MHz FSB 400 — 133MHz FSB 533 — 200MHz FSB 800 (FSB overclocking)

CPU
JCLK1 & JCLK2
① **CPU　　　　(　　)**
② **100MHz CPU**
③ **133MHz CPU**
④ **200MHz CPU**

CPU Clock Einstellungen
JCLK1 & JCLK2
①CPU Autodetect (Standard)
②Fur 100MHz CPU Clock
③Fur 133MHz CPU Clock
④Fur 200MHz CPU Clock

Selección de Clock del CPU
JCLK1 & JCLK2
①CPU Autodetect (por defecto)
②Para 100MHz CPU Clock
③Para 133MHz CPU Clock
④Para 200MHz CPU Clock

JCLK1 & JCLK2 وضعيات الوصلة
لإختيار سرعة تردد ناقل المعالج
① اختيار تلقائي للسرعة (افتراضي)
② للسرعة 100 MHz للناقل
③ للسرعة 133 MHz للناقل
④ للسرعة 200 MHz للناقل

CPU
JCLK1 & JCLK2
① **CPU　　(**
② 　　**100MHz CPU**
③ 　　**133MHz CPU**
④ 　　**200MHz CPU**

(*FSB 800/533 is unguaranteed overclock support)

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Allumage / Réveil par Clavier /Souris
JKB1
1-2=Mis hors service (par défaut)
2-3=Activée

Ligar no Teclado/Rato de arranque /acordar
JKB1
1-2=Desabilitado (Padrão)
2-3=Habilitado

/
/
JKB1
1-2=　　　　(　　　)
2-3=

Включение питания/выход из режима ожидания при активности клавиатуры/мыши
JKB1
1-2= Выключено (По умолчанию)
2-3= Включено

4 JKB1 KB/Mouse Power on/Wake up

1-2 (default) — Disabled
2-3 — Enabled

/　　　-　/
/
JKB1
1-2=　　(　　)
2-3=

Tastatur / Maus Energie ein /Aufwachen
JKB1
1-2=Deaktiviert (Standard)
2-3=Aktiviert

Teclado/Ratón de Energía /Wakeup
JKB1
1-2=Desactivado (por defecto)
2-3=Activado

التشغيل عبر / ميزة التشغيل لوحة المفاتيح / فأرة
JKB1
2-1 غير مفعل (إفتراضي)
3-2 مفعل

/　　　/
JKB1
1-2 =　　　(　　)
2-3 =