



## **System Upgrade**

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## 1 Initiation

The Foam Cutting Machines works in each county in the same precision. After ten years the mechanical parts of the machines are fully functional. Just

Just the controlling and the technique of controlling have been advanced. We would like to enable the owners of the older machines to upgrade her controller and software.

We offer the customers, who works with ISA Controller, Win98 or Win95 the the following proposals to use a modern controller system.

### 1.1 ISA - Controller with Win 98

If you want to use still the ISA Card with Win98, but you have a very modern and fast computer

and adapt the WinXP later to your new computer.

Then the combination of the computer must be as follow:

The new computer must have a ISA-slot. You need Win98 and WinXP and a minimum processor speed of 2 GHz.

Here the Motherboard P4I845PEISA or P4I845GEISA are possible. This motherboard have three 3 ISA - BUS bases and you can use the Pentium 4 or a Celeron Processor. With this system you can use every adjustment.

In the chapter Motherboard you find more specifications of the motherboard.

This and a 512 MB-RAM memory and a 40GB hard disk you are able to work with Win98 and WinXP. For this you must installed 2 partitionen at your hard disk. In the first partition Win98 can run and in the second partition Win XP.

Your computer dealer

or we could offer it for you.

If you want to use WinXP later, so you have to buy and install FoamCut 3.1 for 2 axis or FoamCut 3.2 for 2 axis and the turntable or FoamCut 3.3 for 3 axis . so you can control the machine with you ISA Card- Controller this is dependent on your machine system.

You find more information in the upgrade- price list.

## **1.2 ISA - Controller with WinXP**

You want to use the ISA -Controllercard but you want to work with WinXP.

You need here a motherboard with minimal one ISA-slot.

Here the Motherboard P4I845PEISA or P4I845GEISA are possible. This motherboard have three 3 ISA - BUS bases and you can use the Pentium 4 or a Celeron Processor. With this system you can use every adjustment.

Depend on the your type of machine FoamCut 3.1 for 2 axis or FoamCut 3.2 for 2 axis and turntable or FoamCut 3.3 for 3 axis . With this software you can control your machine with your the ISA Card under WIN XP.

You find more information in the upgrade- price list.

Our Systems are equipped with PCI-Controller Cards and external power section or with a printer port connection and 3/6 Amp strong power sections since 2007. We show you the complete replacement of the system in chapter 3.


### 1.3 LT3CC-Controller at printer port



In this case you want to use a computer to control the machine with a external controller with power section. The computer needs a printer port connection with a 25 pin sub D plug. To install a card is not necessary. And also notebooks with a printer port can be used.

This is our system System LT3CC with seperate 3A power supply or LT3CC - K1 with an inside 6A power supply. For the MC series and Profi series with 2 axis we suggest the LT3CC. For machines with 3 axis you can use the LT3CC-K1.

The software which you have to use is FoamCut 5.1 for 2 axis or Foam Cut 5.2 for 2 axis and turntable. If you work with 3 axis Sc- machine then you need FoamCut 3.3.

## 2 Upgrade price list (prices are ex work Leipzig/Germany)

Computer with Soyo Mother board		Pentium 4 2.4 MHz 40 GB HD 512 MB RAM im ATX - case	on reques t
FoamCut 3.1	2 axis	450 €	
FoamCut 3.2	2 axis+ turntable	650 €	
FoamCut 3.3	3 axis for milling and foam cutting	750 €	
FoamCut 5.1	2 axis	450 €	

FoamCut 5.2	2 axis+ turntable	650 €	
FoamCut 5.3	3 axis for milling and foam cutting	750 €	
LT3CC		printer port Controller with 3 A 110/220V sperate power supply complete	1500€
LT3CC -K1		printer port Controller 6A 110/220V complete	1900 €

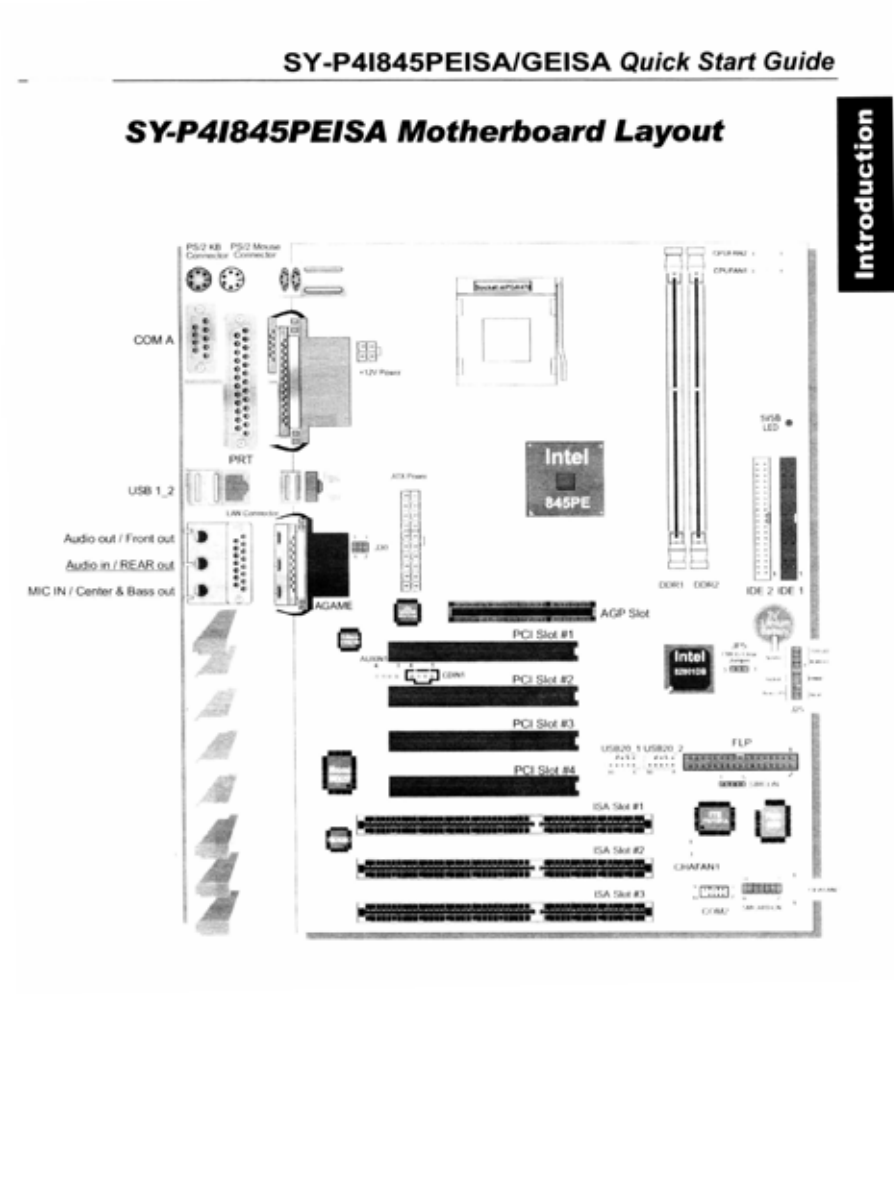
## 3 Motherboard

### 3.1 Key Features

- > Supports Intel® mPGA Socket 478 processors
  - Pentium®4
  - Celeron®
- > Supports 533/400 MHz Front Side Bus .^Frequency  
PC99, ACPI Ultra 33/66/100 (ATA 33/66/100)  
  
Supports PC1600/PC2100/2700 Unbuffer DDR Module  
Supports ACPI Suspend Indicator Power-on by PS/2 Keyboard Power failure  
resume Supports Suspend to RAM
- > Supports onboard hardware monitoring and includes Hardware Doctor™ utility
- > Supports multiple-boot function
- > AGP 2.0 Compliant;  
AGP Connector supports:
  - 1.5V only AGP cards
  - 4X data transfer

- > Smart Card Reader
  - Compliant with Personal Computer Smart Card (PC/SC) Working Group Standard
- > 1x32-bitAGPslot > 4 x 32-bit bus master PCI slots
  - 3x16-bitISA slots
  - 6 x USB2.0 ports onboard
  - 1 x IrDA port
  - Support ATX12V power
  - On-board 10/100 mbps NIC
- > Supports AC97 4 channel Codec
- > Supports multiple-boot function
- > AGP 2.0 Compliant;  
AGP Connector supports:
  - 1.5VonlyAGPcards
  - 4X data transfer
- > Smart Card Reader
  - Compliant with Personal Computer Smart Card (PC/SC) Working Group Standard
- > 1x32-bitAGPslot > 4 x 32-bit bus master PCI slots
  - 3x16-bitISA slots
  - 6 x USB2.0 ports onboard
  - 1 x IrDA port
  - Support ATX12V power
  - On-board 10/100 mbps NIC

3.2 Layout SY-P41845PEISA





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## 3.4 Installation

To avoid damage to your Motherboard, please follow these simple rules while handling this equipment:

- Before handling the Motherboard, ground yourself by touching on to an unpainted portion of the system's metal chassis.
- Remove the Motherboard from its anti-static packaging. Hold the motherboard by the edges and avoid touching its components.
- Check the Motherboard for damage. If any chip appears to be loose, press carefully to seat it firmly in its socket.

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Follow the directions in this section which is designed to guide you through a quick and correct method to install your new **SY-P41845PEISA/GEISA** Motherboard. For detailed information, please refer to the *SY-P41845PEISA/GEISA Motherboard User's Manual and Technical Reference* online manual on the CD-ROM that came with your Motherboard.

Gather and prepare all necessary components to complete the installation successfully:

- Socket mPGA478 processor with CPU cooling fan (boxed type)
- DDR SDRAM module(s)
- Computer case with adequate power supply unit (350W or greater)
- Monitor
- Keyboard
- Pointing Device (Mouse)
- Speaker(s) (optional)
- Disk Drives: HDD, CD-ROM, Floppy drive...
- External Peripherals; Printer and Modem (optional) • VGA Card (AGP, PCI)

### 3.5 Install the Motherboard

**We will now begin the Installation process. Please follow the systematic procedure designed to lead you to a complete and correct installation.**

Step 1- Install the Central Processing Unit (CPU)

Step 2- Install memory modules

Step 3- Connect cables, case wires, and power supply Install expansion cards

Step 4- Install expansion cards

#### **Step 1. Install the CPU**

CPU Mount Procedure: To mount the Pentium®4 or Celeron® Socket mPGA478 processor that you have purchased separately, follow these instructions.

1. Lift the socket handle up to a vertical Position.
2. Align the blunt edge of the CPU with the matching pinhole edge on the socket.
3. Place the processor in the socket completely and without forcing.
4. Then dose the socket handle to secure the CPU in place.

Don` t forget

to connect the CPU Cooling Fan to the appropriate power connector on the Motherboard. The fan is a key component that stabilizes the system. It prevents the equipment from overheating and prolongs the life of your CPU.

### 3.6 Configure Memory

S37 P41845PEISA/GEISA support PC2100 (266) & PC2700 (333) , non-ECC and non-registered module.

The largest memory capacity possible is 2GB. On this motherboard (PEISA/GEISA), DRAM speed can be set independent from the CPU front side bus speed. A maximum of 2 pcs. Double-sided module can be used at the same time.

#### Memory Configuration Table

Number of Memory Modules	DDR1	DDR2
RAM Type	DDR RAM	
Memory Module Size (MB)	128/256/512 MB/1GB	

Note: System must have a 533MHz FSB CPU to have PC2700 memory support.

#### Connect cables, case wires, and power supply Install expansion cards

This section explain you how to connect the internal peripherals and the power supply to the Motherboard.

The internal peripherals consist of IDE devices (HDD, CD-ROM), Floppy Disk Drive, Chassis Fan, Front Panel Devices (ACPI LED, Internal Speaker, Reset Button, IDE LED, and KeyLock Switch.), Wake-On-LAN card, VGA card, Sound Card, and other devices.

For more details on connecting internal and external peripherals to your new SY-P41845PEISA / GEISA Motherboard, please refer to SY-P41845PEISA/GEISA Motherboard User's Manual and Technical Reference online manual on the CD-ROM.

### 3.7 Internet Info

**Internet 23.03.2007**

<http://www.soyo.com/products/select.php?id=29>

[Printable Version](#)



#### **SY-P4I845PE/GVISA Plus**

SY-P4I845PE/GVISA Plus utilizes Intel 845PE/GV & ICH4 chipset, supports Intel Pentium 4 Prescott / Celeron CPU with FSB 533/400MHz, DDR 333/266 SDRAM, 6 USB 2.0, 3 ISA, 4 PCI, 10/100 LAN, ATA100/66, 6-CH AC' 97

#### **OVERVIEW**

SOYO SY-P4I845PE/GVISA Plus pushes the envelope by hiking FSB from conventional 400 to exceptional 533MHz for the support of the latest Pentium 4 Prescott CPU, extending the life span and compatibility of more economical and affordable Intel 845 chipset. In addition to its comprehensive support for AGP4X/2X (for SY-P4I845PEISA Plus only), USB 2.0, ATA100, 6-channel AC' 97 CODEC, and PCI slots, the 3 onboard ISA slots are extensively tested for compatibility with legacy ISA devices and prolong their life circles. SY-P4I845PE/GVISA Plus provides immeasurable value to the integration of obsolete devices with state-of-the-art Pentium 4 CPU & OS, a true ELIXIR for ISA.

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<http://shop.soyousa.com/customer/home.php?cat=2&xid=e8fbf74e9ae8f243272bcbf487b52db>

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SOYO SY-P4I845PE/GVISA Plus pushes the envelope by hiking FSB from conventional 400 to exceptional 533MHz for the support of the latest Pentium 4 Prescott CPU, extending the life span and compatibility of more economical and affordable Intel 845 chipset. In addition to its comprehensive support for...

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Original price: \$ 259,00

Quantity

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