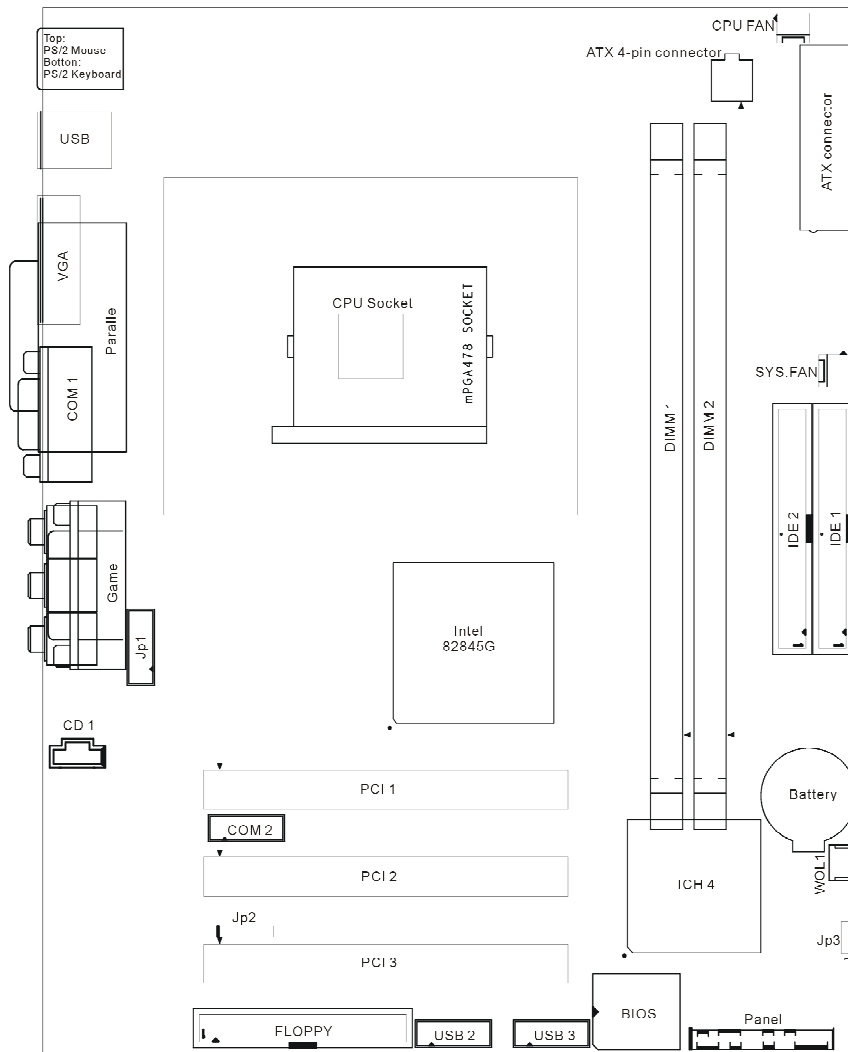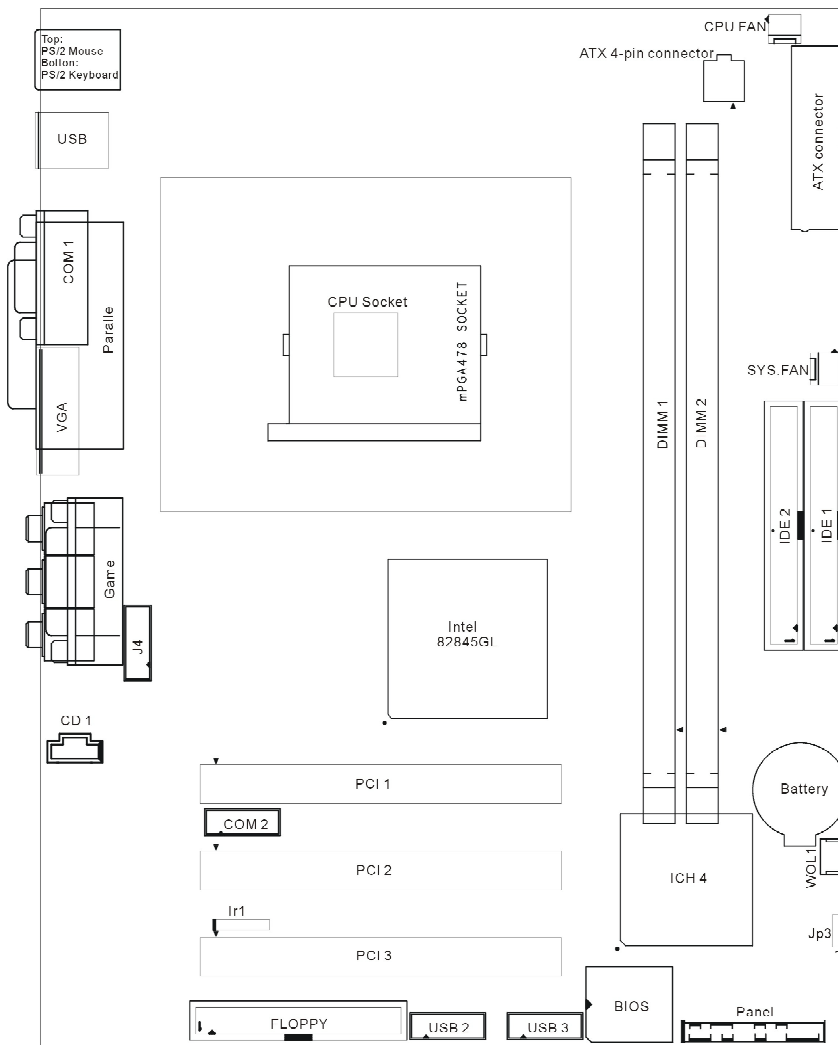# chapter 2:Product Introduction

P845GL mainboard

* Support Intel 478pin Pentium4 FC-PGA2 (Willamette/Northwood)
* Support 400MHz Bus
* Intel 845GL + ICH4 Chipset
* Two DIMM slots support up to 2G Memory Capacity
* Support PC1600 and PC2100 DDR DIMM(DDR200/DDR266)
* Jumperless for CPU Frequency setting
* 3x PCI slots
* 6x USB2.0 ports (4xUSB2.0 in the Front panel,2xUSB2.0 in the rear panel) , 1x IrDA port header
* 1 x FDD port, 1 x Parallel port with ESD/EMI protection, 2 x COM ports
* Dual IDE Channels support Four Ultra-DMA33/66/100 IDE Devices
* WAKEUP-LINK Header to Support Wake-On-LAN
* Integrated 2D&3D Graphic Accelerate Port
* Integrated AC97 Audio Onboard(Select 2ch,4ch,5.1ch)(optional)
    * AC97 2.1(or AC97 2.2) Compliant Codec with 3D Stereo Enhancement
    * 1 xSpeaker(Front speaker), 1 x Mic-in(Center and Sub-woofer), 1 x Line-in(Rear-speaker)
    * 1 x CD-in, 1 x Game Port
    * 1xstandard Audio Front Panel Header
* Overcurrent protection over Keyboard & Mouse
* Coloured Connectors : FDD, IDE, COMs etc.
* Phoenix BIOS PC99/ACPI/DMI Compliant
* ATX Power Supply Interface
* Micro ATX form factor 245mm x 190mm

chapter 2:Product Introduction

P845GL mainboard diagram

Top:
PS/2 Mouse
Botton:
PS/2 Keyboard

USB

VGA

Paralle

COM 1

Game

Jp1

CD 1

CPU FAN

ATX 4-pin connector

ATX connector

CPU Socket

mPGA478 SOCKET

DIMM 1

DIMM 2

SYS.FAN

IDE 2

IDE 1

Intel
82845G

Battery

PCI 1

COM 2

PCI 2

WOL 1

ICH 4

Jp2

Jp3

PCI 3

FLOPPY

USB 2

USB 3

BIOS

Panel

chapter 2:Product Introduction

P845GLP mainboard

* Support Intel 478pin Pentium4 FC-PGA2 (Willamette/Northwood)
* Support 400MHz Bus
* Intel 845GL + ICH4 Chipset
* Two DIMM slots support up to 2G Memory Capacity
* Support PC1600 and PC2100 DDR DIMM(DDR200/DDR266)
* Jumperless for CPU Frequency setting
* 3x PCI slots
* 6x USB2.0 ports (4xUSB2.0 in the Front panel,2xUSB2.0 in the rear panel) , 1x IrDA port header
* 1 x FDD port, 1 x Parallel port with ESD/EMI protection, 2 x COM ports
* Dual IDE Channels support Four Ultra-DMA33/66/100 IDE Devices
* WAKEUP-LINK Header to Support Wake-On-LAN
* Integrated 2D&3D Graphic Accelerate Port
* Integrated AC97 Audio Onboard(Select 2ch,4ch,5.1ch)(optional)
    * AC97 2.1(or AC97 2.2) Compliant Codec with 3D Stereo Enhancement
    * 1 xSpeaker(Front speaker), 1 x Mic-in(Center and Sub-woofer), 1 x Line-in(Rear-speaker)
    * 1 x CD-in, 1 x Game Port
    * 1xstandard Audio Front Panel Header
* Overcurrent protection over Keyboard & Mouse
* Coloured Connectors : FDD, IDE, COMs etc.
* Phoenix BIOS PC99/ACPI/DMI Compliant
* ATX Power Supply Interface
* DIP mPGA 478 CPU Socket
* Micro ATX form factor 245mm x 190mm

Mainboard Manual

chapter 2:Product Introduction

P845GLP mainboard diagram
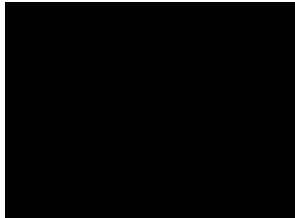
chapter 2:Product Introduction

2.1 Connection Configuration

PS/2 Keyboard and Mouse connector

The Connector for the PS/2 Mouse & PS/2 Keyboard
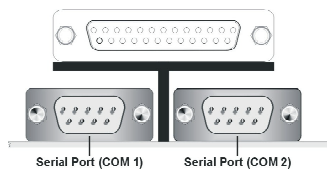
USB Bus Connector

A845E,P845GL,P845GS mainboard provide usb connector,support pnp function accord with spec of 2.0. Its data transmission rate support up to 480Mb/s.
A845DD,A845SD,P845SD mainboard provide usb connector,support pnp function accord with spec of 1.1. Its data transmission rate support up to 12Mb/s.

COM 1& COM 2 Connector
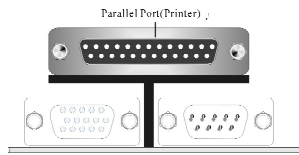
The COM Connector for the COM Devices.

Serial Port (COM 1)   Serial Port (COM 2)

Caution : COM2 in P845GL and P845GLP is a 9pin header.

Mainboard Manual

chapter 2:Product Introduction

Parallel Port

The port mainly use for Printer.

Parallel Port(Printer)

Line-in,Microphone-in,Speaker-out MIDI/Joystick

Line-in(Rear-speaker):

It is the input that the audio port of tape or small recorder replay or record
in 2ch stereo;but it is the output of rear-speaker(surround-out)when
4ch or 5.1ch Audio format is adopted on mainboard.
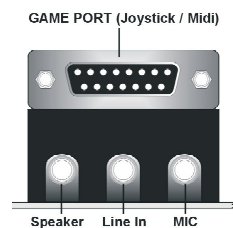
Microphone-in(center and sub-woofer):

It is the input of microphone in 2ch stereo;but it's the output of Bass
sound box (or Center-out) when 5.1ch Audio format is adopted on
mainboard.

Speaker(Front-speaker):

It is the output of Two channel Audio.When 4ch or 5.1ch Audio format is
adopted on mainboard,it's the output of Front speaker.

MIDI/Joystick :

It's connected a joystick or a MIDI device.

GAME PORT (Joystick / Midi)

Speaker   Line In   MIC

Note: CS4299/ALC201 support 2ch audio format;
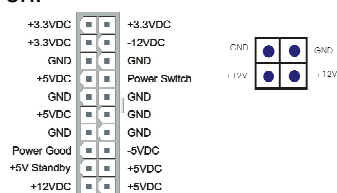   CMI9738 support 4ch audio format;
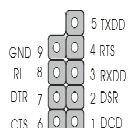   CMI9739 support 5.1ch audio format.

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P4 Power Connector

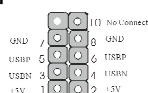This is a simply diagram of P4 Power connector,which supply 5V and 12V standard Voltage and so on.

COM2 header

COM cable to connect with it.The red line of cable correspond with pin1 of the header.

USB header

 use cable to connect with it. It support two usb port.The red line of cable correspond with pin1 of the header.
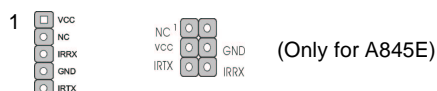

IRDA connector

The header pin-out is as follows

Pin	Signal Name
1	VCC,power source
2	No Connection
3	IRRX, infra-red receive
4	Ground
5	IRTX, infra-red transmit

(Only for A845E)

WOL Header

The Wakeup-Link header used to connect an add-in NIC(Network Interface card) which has Wake-on-Lan capability.