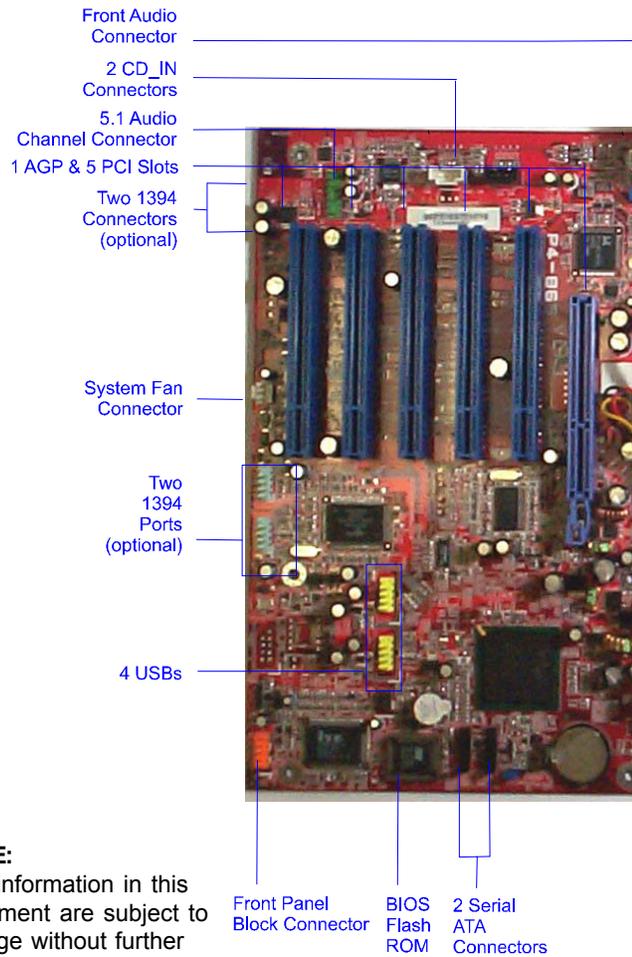




865 Dynasty Pentium® 4 with

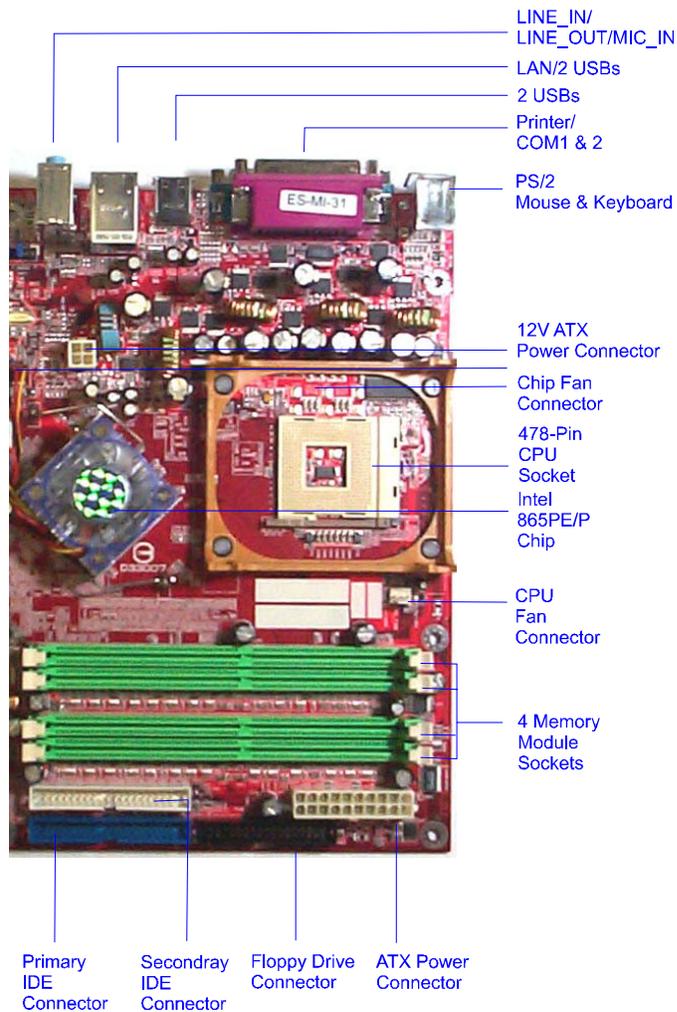


NOTE:
The information in this document are subject to change without further notice.

Part Number: 25-11241-40

EZ Guide

Intel 865 Series



Package Checklist

- Mainboard
- Manual
- 865 Dynasty EZ Guide
- FDD cable
- Drivers CD
- ATA-100 cable
- I/O shielding
- USB cable
- Serial ATA cable (optional)
- 1394 bracket with cable (optional)
- A73 audio bracket with cable (optional)

Before Start



Warning:

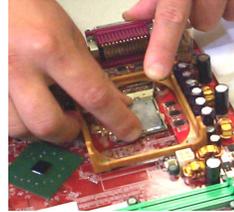
1. Static electricity may cause damage to the integrated circuits on the motherboard. Before handling any motherboard outside of its protective packaging, ensure that there is no static electric charge in your body.
2. There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer.
3. Discard used batteries according to the manufacturer's instructions.
4. Never run the processor without the heatsink properly and firmly attached. PERMANENT DAMAGE WILL RESULT!

Installation Procedures

1. Install CPU
2. Install memory module
3. Install mainboard
4. Install devices
5. Install add-on card
6. Connect cables
7. Set jumpers
8. Assemble case
9. Link peripherals
10. BIOS setup
11. Install Drivers

Step 1 - Install CPU

1. Swing the lever upward to 90 degrees.
2. Install the CPU and make sure the pin 1 orientation by aligning the socket corner marking with the socket corner closest to the lever tip. Do not insert the CPU by force. Make sure the processor is fully inserted into the socket on all sides.

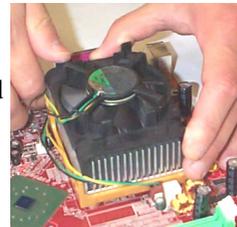


Apply some thermal materials, such as paste or tape, on the CPU top; and install a fan with heatsink that approved by CPU manufacturer to avoid CPU damage. For detail information, please refer to the CPU manufacturer website.



Affix the CPU by pressing the lever downward and locking it beside the socket.

3. Place the fan with heatsink on the CPU top and press down two plastic clips to hook up with the holes on the retention module on two sides.

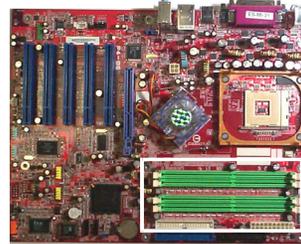
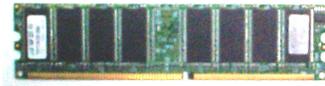


4. Press down the white bar on each clip to fasten the fan set on the retention module.

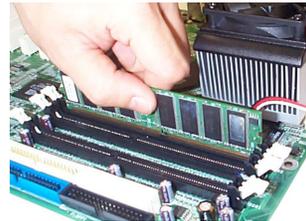


Step 2 - Install Memory Module

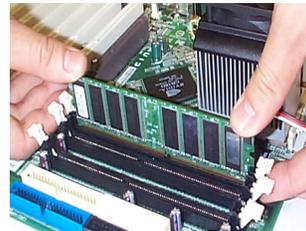
1. Locate DDR DIMM sockets on the mainboard.



2. Install DDR DIMM straight down into the socket 1 using both hands, then socket 2, and so forth.



3. The clip on both ends of the socket will close up to hold the DDR DIMM in place when the DDR DIMM reaches the socket bottom.



NOTE:

1. To enable dual channel, it must be same density (128/256MB, etc.); same technology (128/256Mb, etc.); same bus width (x8, x16); both single- (or dual-) sided; installed on symmetrical memory slots.

2. If your system uses an 800MHz CPU with DDR333 memory, the memory interface of the chipset will runs at 320MHz.

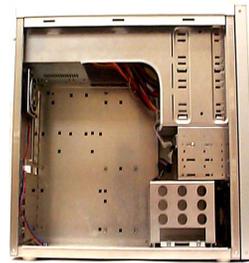
Step 3 - Install Mainboard



Warning:

1. Excessive torque may damage the mainboard. When using an electric screwdriver on the mainboard, make sure that the torque is set to the allowable range of 5.0 ~ 8.0kg/cm.
2. Be aware of the shape edges in the case while installing board.

1. Locate mounting holes on the mainboard.



2. Place the board over the frame inside the chassis.
Be sure that the board and frame are aligned.



3. Affix the mainboard by copper columns.



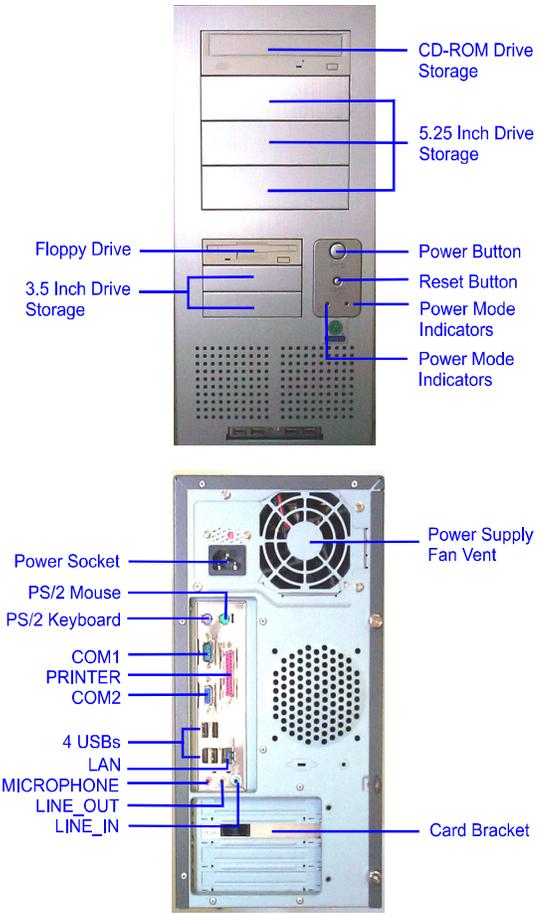
Two Mounting Holes on Board Edge



Two Copper Columns



Front and Rear Panel



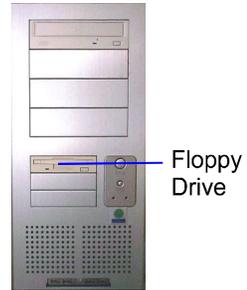
Note:

The chassis might not be the same as yours. The specification here is only for reference. Generally, most cases are similar.

Step 4 - Install Devices

Floppy Drive

1. Locate floppy drive frame and storage on the chassis.



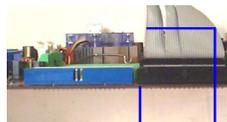
2. Place the drive from the front panel side into the frame.



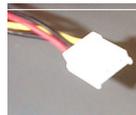
3. Affix the drive on the frame by screws.



4. Connect the floppy cable and power cable.



Pin 1 Colored Line



Floppy Power Plug



Cable Floppy Power Plug

Step 4 - Install Devices (continued)

CD/DVD Drive

1. Locate CD/DVD drive frame and storage on the chassis.



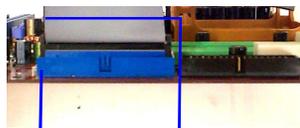
2. Place the drive from the front panel side into the frame.



3. Affix the drive on the frame by screws.



4. Connect the IDE cable and power cable.



Pin 1

Colored Line



IDE Power Plug



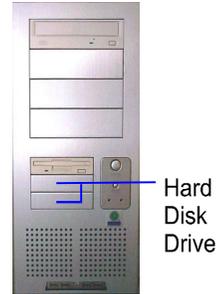
Cable

IDE Power Plug

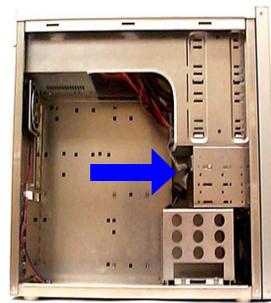
Step 4 - Install Devices

Hard Disk Drive

1. Locate hard drive frame and storage on the chassis.

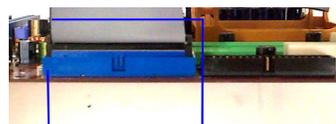


2. Place the hard disk drive from the rear of the frame as the arrow head indicated.



3. Affix the drive on the frame by screws.

4. Connect the IDE cable and power cable.



Pin 1

Colored Line



IDE Power Plug



Cable

IDE Power Plug

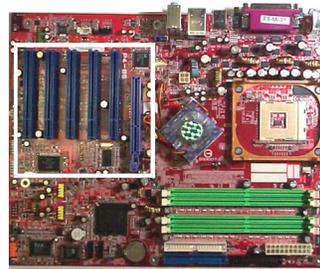
Step 5 - Install Add-on Card



Warning:

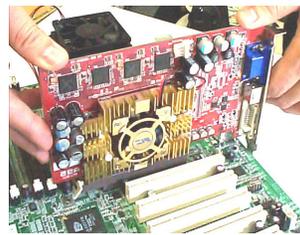
Make sure to unplug the power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both the mainboard and expansion cards.

1. Select an available expansion slot.



2. Remove the corresponding slot cover from the computer chassis. Unscrew the mounting screw that secures the slot cover and pull the slot cover out from the computer chassis. Keep the slot cover mounting screw nearby.

3. Push the card firmly into the slot. Push down on one end of the expansion card, then the other. Use this rocking motion until the card is firmly seated inside the expansion slot. Secure the card with the screw removed in Step 2.



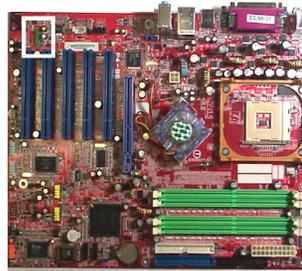
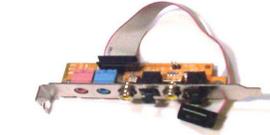
Step 6 - Connect Wires

5.1 Audio Channel

Please use the optional cable and A73 bracket with cable to install the 5.1 audio channel feature.

The pin definitions of the 5.1 audio channel pinheaders (position in the white rectangle in the right figure) are shown in right table:

PIN	DEFINITION
1	Front Out R
2	Rear Out R
3	Front Out L
4	Rear Out L
5	Center Out
6	Bass Out
7	AGND
8	
9	VCC
10	SPDIF Optical In
11	SPDIF Out
12	+12V
13	GND
14	SPDIF Coaxial In



USB

Use the USB bracket with cable to install it on the rear panel. The pin definitions of the USB pinheaders (positions in the white rectangle in the below right figure) are shown in the table below:

PIN	DEFINITION
1	VCC
2	VCC
3	DATA0-
4	DATA1-
5	DATA0+
6	DATA1+
7	GND
8	GND
9	Key
10	GND



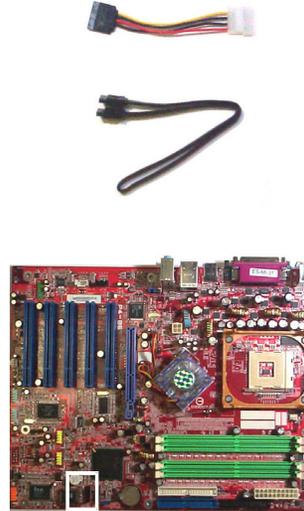
Step 6 (continued)

Serial ATA

Use the optional SATA cable to connect to the hard drives (lower one is a SATA data cable) and link with the power supply (upper one is a SATA power cable).

The pin definitions of the SATA pinheaders (positions in the white rectangle in the right figure) are shown in the right table:

PIN	DEFINITION
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

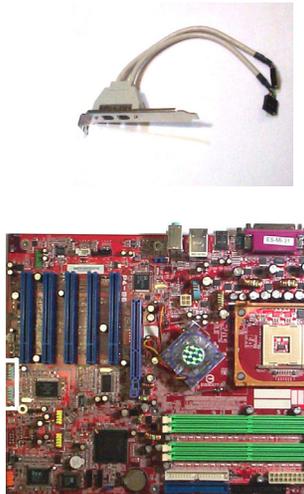


1394 (optional)

Please use the optional 1394 cable to install the 1394 connection.

The pin definitions of the pinheaders (positions in the white rectangle in the right figure) are shown in the right table:

PIN	DEFINITION
1	TA1+
2	TA1-
3	GND
4	GND
5	TB1+
6	TB1-
7	VCC
8	VCC
9	GND
10	NC

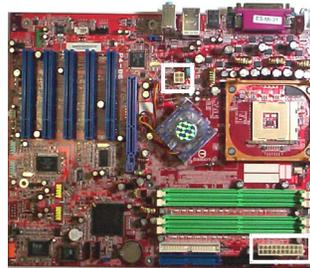


Step 6 (continued)

ATX Power

The 20-hole power plug (top right) is connected to the ATX power 20-pin pinheaders. The 4-hole 12V power plug is inserted in the ATX_12V power connector.

The plug from the power supply will only insert in one orientation because of the different hole sizes. Find the proper orientation and push down firmly making sure that the pins are aligned.



Step 7 - Set System Jumpers

Clear CMOS



Warning: Please disconnect the ATX power cable before set this jumper and connect the ATX power cable after clear CMOS.



1 2 3

*Disable
(Default)*



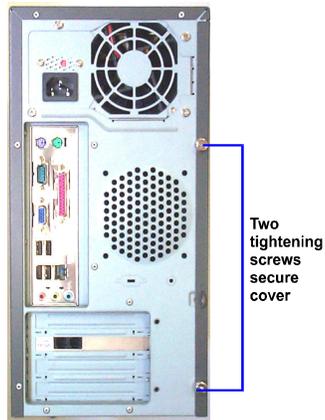
1 2 3

*Enable
(Clear CMOS)*



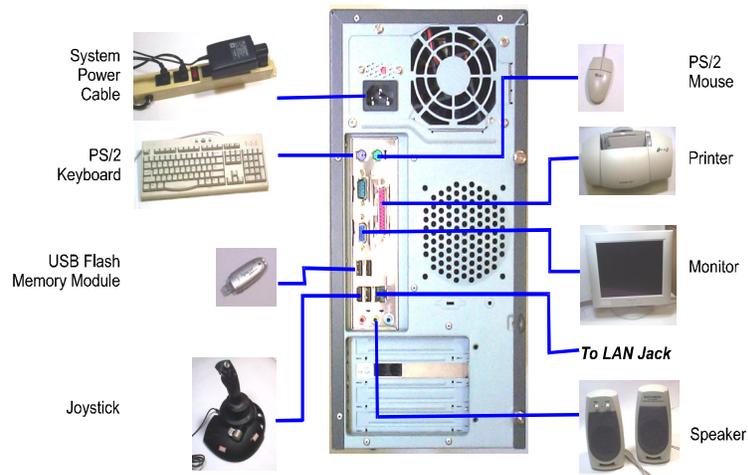
Step 8 - Assembly Case

Place the cover on the chassis and secure the screws on the cover either by a screw driver or by fingers to tighten them up.



Step 9 - Link Peripherals

Link peripheral devices to your system via rear/front panel.



Step 10 - BIOS Setup

Standard CMOS Setup

Use the arrow keys to highlight the item and then use **PgUp** or **PgDn** keys to select the value you want in each item.

Load Fail-Safe Defaults

This submenu is selected to diagnose the problem after the computer boots, if the computer will not boot. These settings do not give optimal performance.



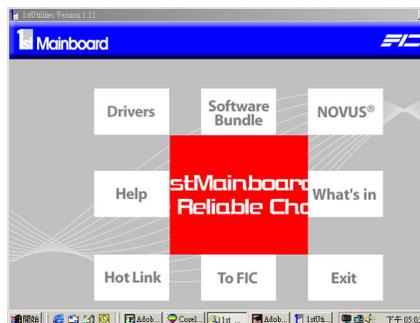
Step 11 - Install Drivers

Drivers

Place your Ist Utilities CD into your CDDrive. The top menu will appear on the screen. Select the item Drivers to start the auto running feature.

Help

The item provides you with some information about the features and drivers. Reading it will be helpful on installation.



Software Bundle

The item provides you with some useful software tools to assist you to manage your computer system.

<http://www.fic.com.tw>