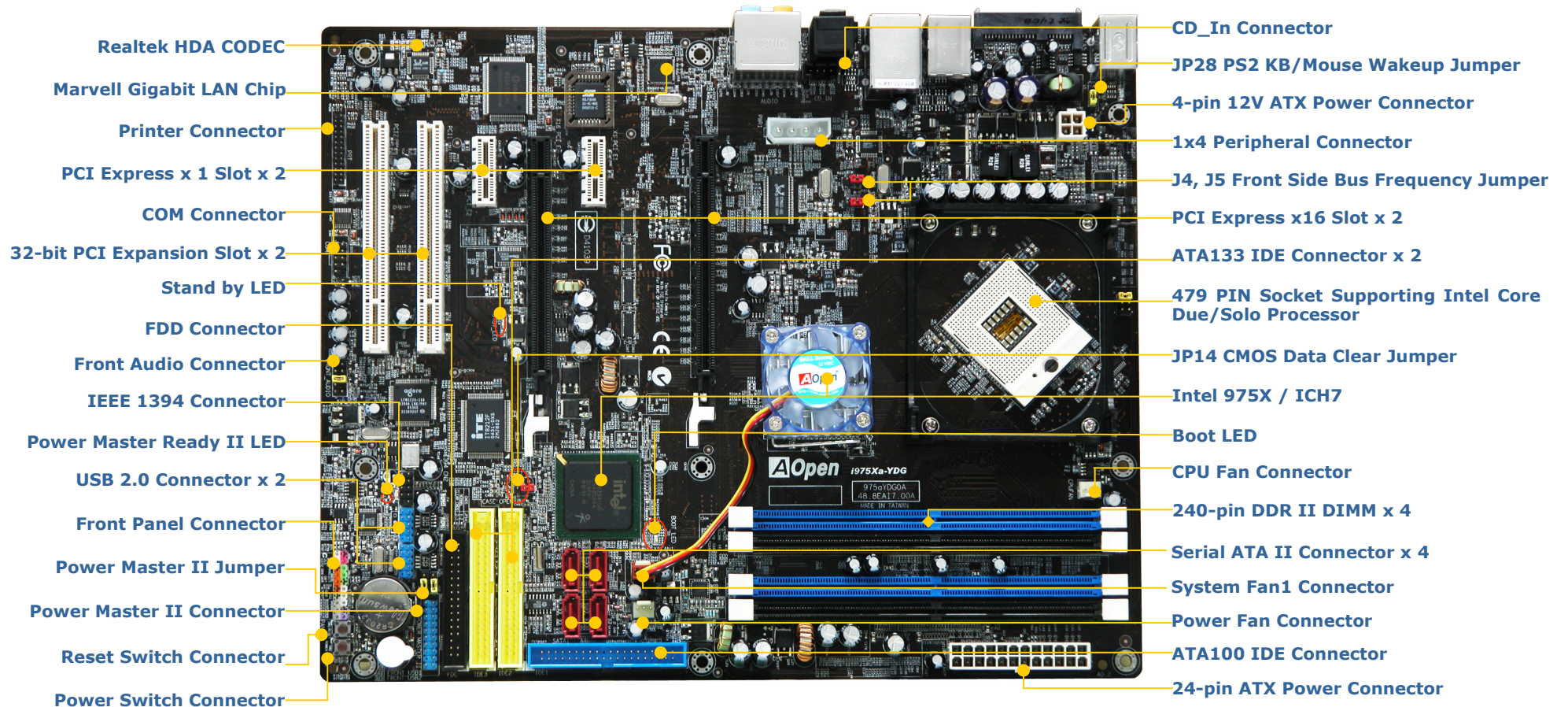
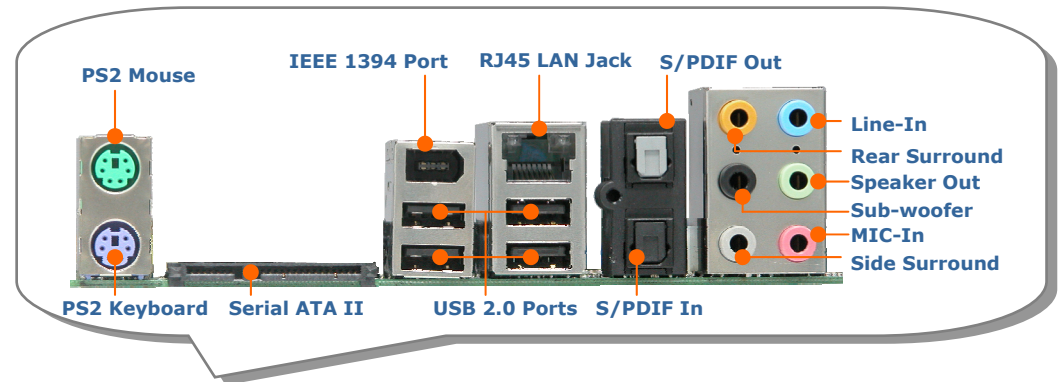




Cool Stuff is Hot Stuff, MöDT is the Right Stuff

i975Xa- YDG

May the Dual Force be with you



AOpen reserves the right to revise all the specifications and information contained in this document, which are subject to change without notice.



Before You Start

Everything you need is included in this Easy Installation Guide. For more information, please refer to our complete **User's Manual** in the **Bonus Pack CD**.

Necessary Checklist

- Easy Installation Guide x 1
- Enhanced Full Pictured Manual x 1
- 80-Wire IDE Cable x 1
- Floppy Drive Cable x 1
- Serial ATA Cable x 1
- Serial ATA Power Cable x 1
- Hot Plug Serial ATA Cable x 1
- Back Panel I/O Shield x 1
- CPU Cooler x 1
- IR Receiver x 1
- IR Remote Control x 1
- Bonus Pack CD x 1
- ITE IDE RAID Driver Diskette x 1

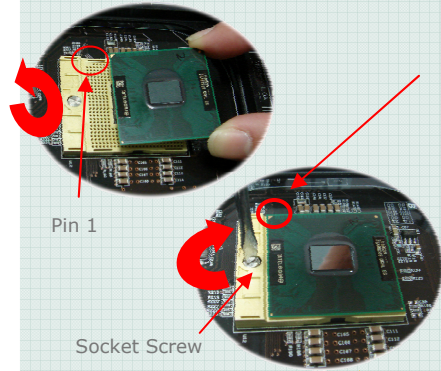


Installing By Yourself



PART NO: 49.8EM0E.EE10 DOC. NO: I975XAYDG-EG-E0601A

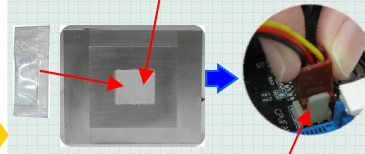
This socket supports uFCPGA package CPU, which is the latest Yonah Core Duo/Solo CPU package developed by Intel.



1. Unscrew socket screw counter-clockwise.
2. Locate Pin 1 in the socket and look for a golden arrow on the CPU upper interface. Match Pin 1 and golden arrow. Then insert the CPU into the socket.
3. Lock the socket screw clockwise to fasten CPU.

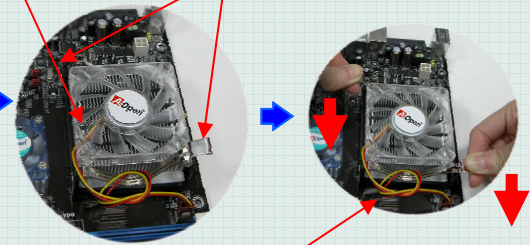
1

Paste the Glue on the center of Cooler's back side.



Plug CPU cooler power cable into power connector.

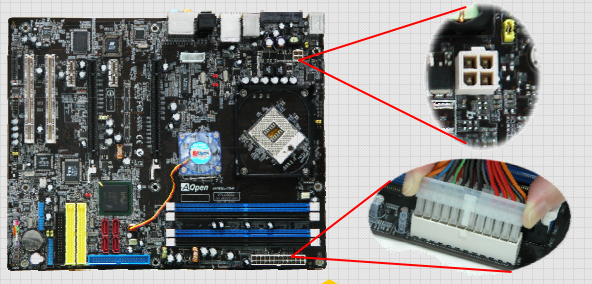
1. Place CPU cooler properly into CPU retention
2. Plug CPU holder x 2 properly into CPU retention



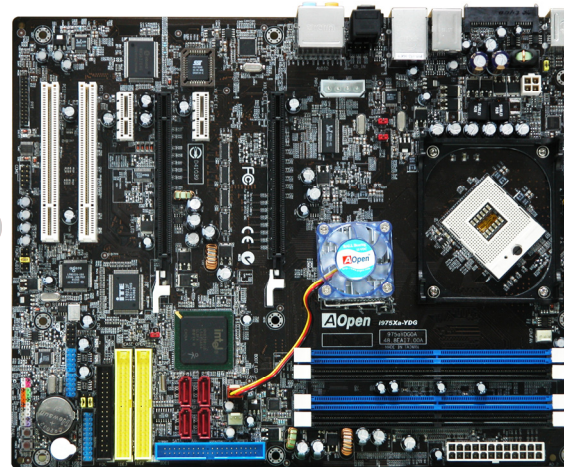
1. Press CPU holder x 2 in the same time
2. Hook CPU Holder with the hole of retention to fix CPU cooler

2

1. Plug CPU power 4pins cable to CPU power connector
2. Plug ATX power cable to power connector on board Above two cables and connector had directional mechanism. Please plug it according it. If not plug or not plug properly, the MB will not work.

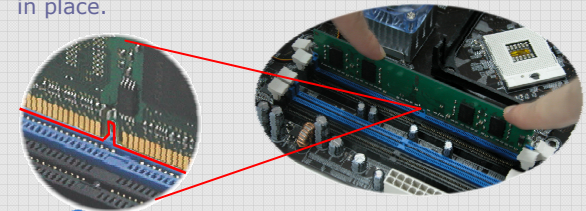


6



5

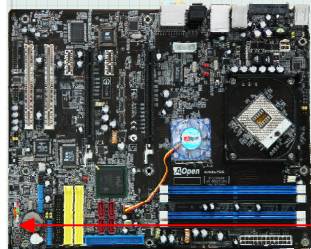
DIMM slots are designed in black and navy blue which are very easy to recognize. Insert the module straight down to the DIMM slot with both hands and press down firmly until the DIMM module is securely in place.



Note: The tabs of the DIMM slot will close-up to hold the DIMM in place when the DIMM touches the slot's bottom.

3

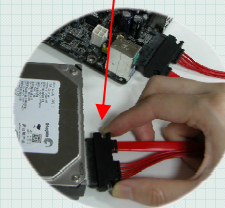
Attach the power LED, speaker, and reset switch connectors to the corresponding pins. If you enable "Suspend Mode" item in BIOS Setup, the ACPI & Power LED will keep flashing while the system is in suspend mode. Locate the power switch cable from your ATX housing. It is 2-pin female connector from the housing front panel. Plug this connector to the soft-power switch connector marked



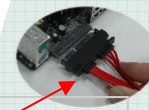
1	NC			Power Switch
	NC			GND
	+5V			Power LED-
	HDD LED			GND
	HDD LED			Power LED+
	+5V			NC
	+5V			GND
	GND			GND
	NC			RESET
	SPEAKER			GND

Front Panel Connector

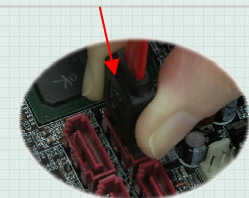
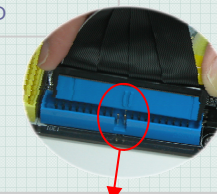
External Hot Plug SATA HDD:
1. Plug SATA cable to onboard External SATA Connector properly
2. Plug SATA cable to SATA HDD



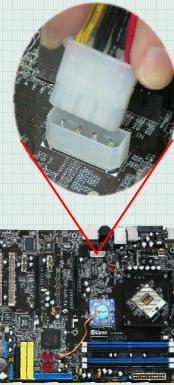
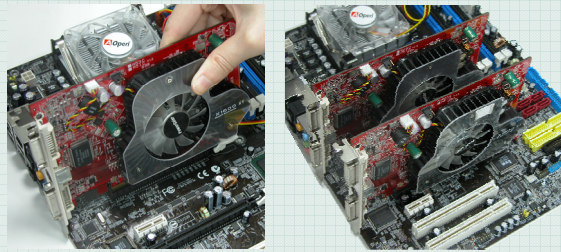
Internal SATA HDD Connection:
1. Plug SATA cable to onboard internal SATA Connector properly
2. Plug SATA cable to SATA HDD
3. Plug Power connector to SATA HDD



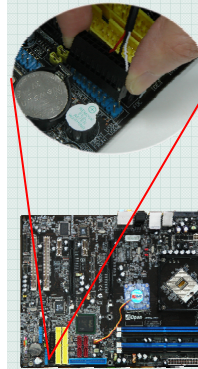
1. Plug IDE cable into IDE connector with IDE HDD
2. Take care the direction of cable to meet the hole in IDE slot



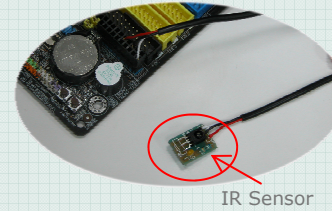
1. Please plug ATX 4Pin Power to the onboard 4 Pins peripherals connector. It is recommend and must plug while you want to use one or two PCI Express VGA. This power can provide extra power from power supply to make sure all peripherals run well. It is POWER IN connector.
2. Plug PCI Express VGA card properly
3. This MB allow you plug two PCI Express x 16 VGA cards



7

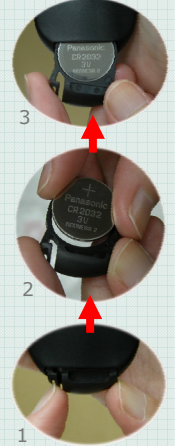


8



IR Sensor

1. Install remote control's battery. Please reference right side picture 1,2,3
2. Install remote control IR sensor. Please plug the sensor's cable on the Power Master connector properly. Notice sensor must had no barriers to block IR signal receive. Please reference Left top pictures for IR sensor install



3

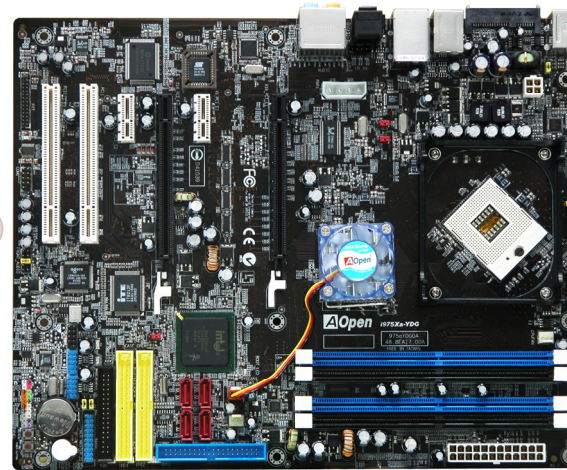
2

1

You can use the auto-run menu of Bonus CD disc. Choose the utility and driver from the icons at left side, and then click on the "GO" button to complete installation automatically.

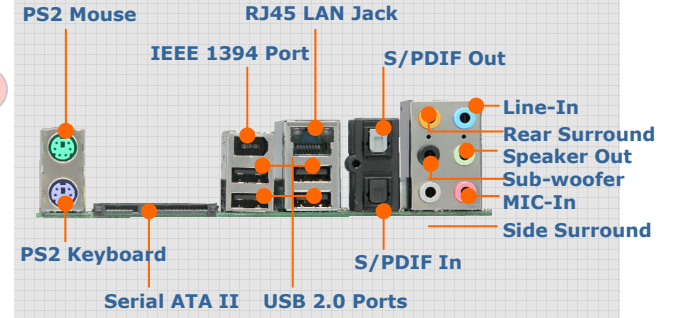


12



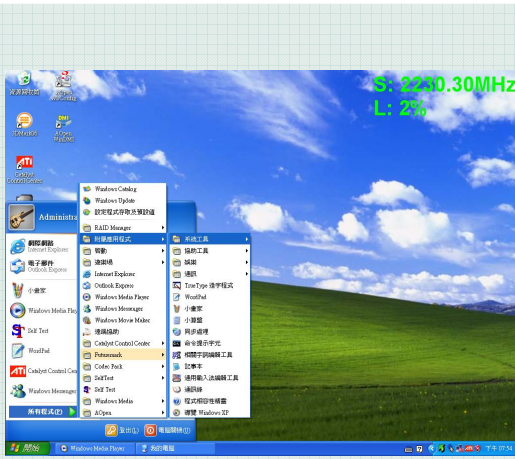
9

i975Xa-YDG provided back panel connectors to connect PS/2 devices/ SATA HDD (Hot Plug)/ USB2.0 x 4/ 1394 devices/ Gigabit Ethernet Lan/ SPDIF IN/ OUT/ 7+1 Audio Racks



11

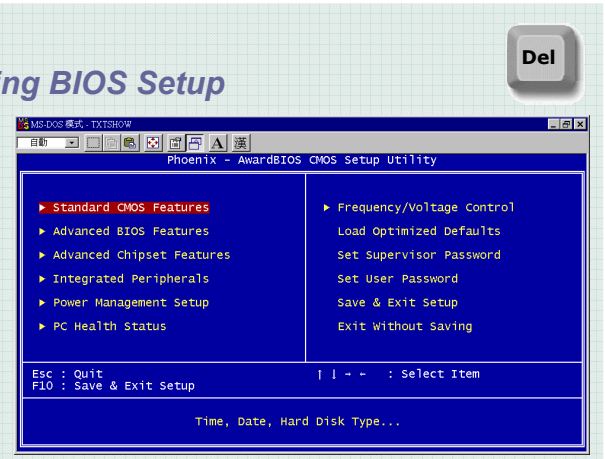
10



Window XP is default OS which i975Xa-YDG design for. Please install the Window XP according Microsoft's standard procedure.

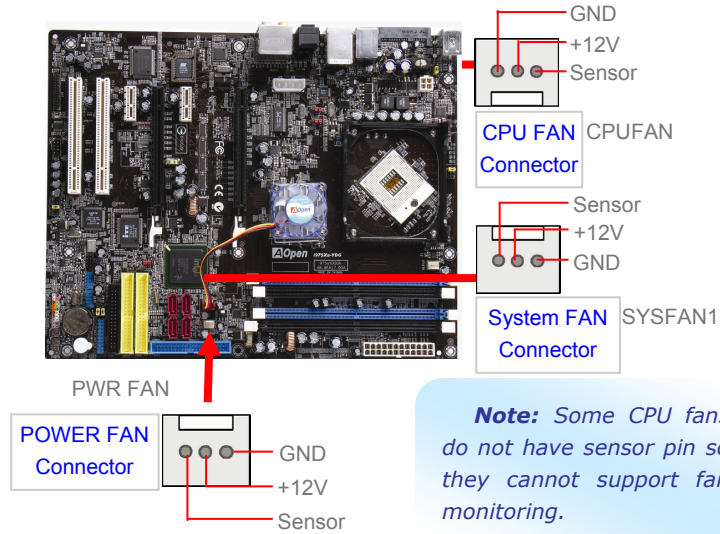
Power-on and Loading BIOS Setup

After you finish the setting of jumpers and connect correct cables. Power on and enter the BIOS Setup, press during POST (Power On Self Test). Choose "Load Optimized Defaults" for recommended optimal performance.



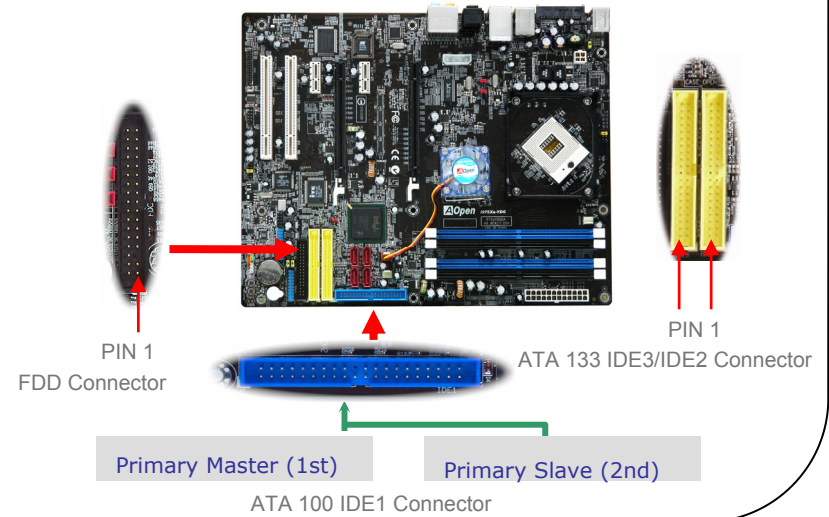
CPU & System & Power Fans Connectors

Plug in the CPU fan cable to the 4-pin CPUFAN connector. If you have a chassis fan, you can also plug it in PWRFAN or SYSFAN1 connector.



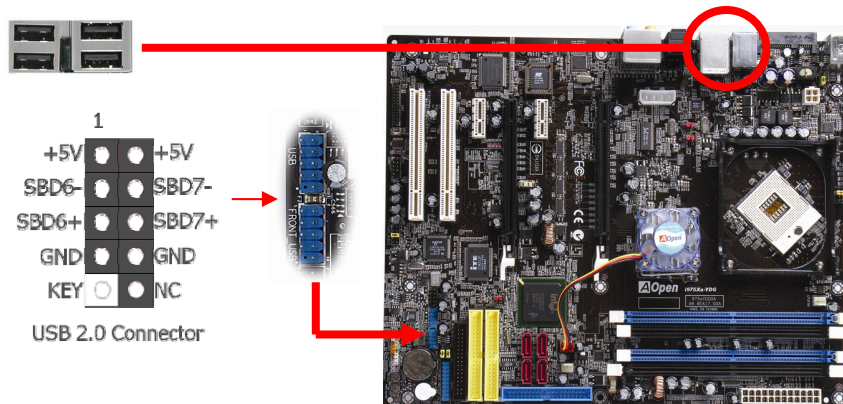
Connecting IDE and Floppy Cables

Connect 34-pin floppy cable and 40-pin, 80-wire, IDE cable to floppy connector and IDE connector respectively. Be careful of the pin1 orientation. Wrong orientation may cause system damage.



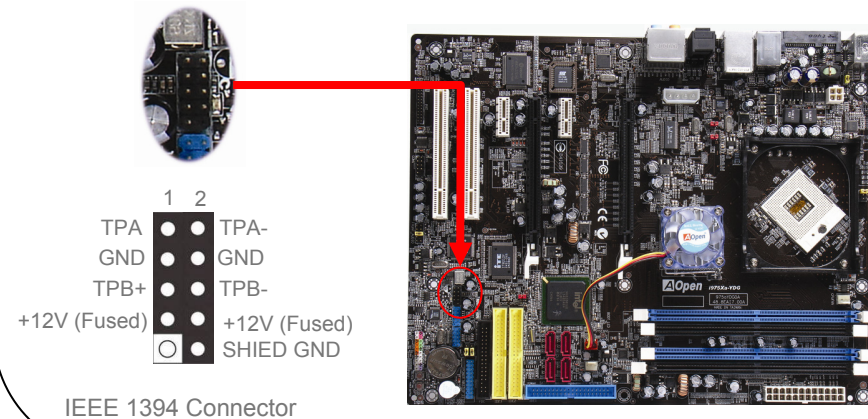
Connecting USB 2.0

This motherboard provides eight USB 2.0 ports for USB devices such as mouse, keyboard, modem, printer, etc. There are four ports on the back panel. You can use proper cables to connect between Front USB connector and USB modules or chassis front



1394 Connector

With [IEEE1394](#) Chip on board (AGERE 1394), having its data transfer rate up to 400Mb/s, this interface can connect to devices that require high data transferring performance such as digital camera, scanner or others IEEE 1394 devices. Please use appropriate cables to connect IEEE1394 devices.



Setting CPU Voltage & Frequency

Setting CPU Core Voltage

This motherboard supports Voltage ID (VID) function to detect CPU voltage automatically during power-on.

Setting CPU Frequency

This motherboard is CPU jumper-less design, set CPU frequency through 1MHz stepping CPU Overclocking in the BIOS. CPU Core Frequency = CPU external frequency x CPU Ratio. However, all CPU now selling in the market belong to "Fixed Multiplier". That means users can not adjust the CPU Ratio but only change CPU FSB clock to achieve over-clocking.

(Users do the over-clocking at their own risk!)

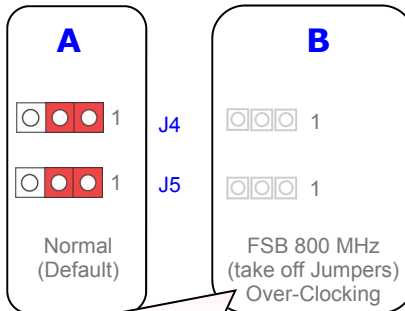
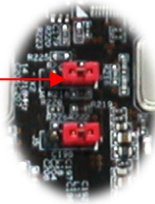
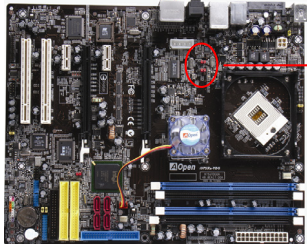
BIOS Setup > Frequency / Voltage Control > CPU Bus Frequency

Processor Number	Architecture	Clock Speed	Front Side Bus	Cache	Ratio
Core Duo T2700	65nm	2.33GHz	667MHz	2MB L2	14
Core Duo T2600	65nm	2.16GHz	667MHz	2MB L2	13
Core Duo T2500	65nm	2GHz	667MHz	2MB L2	12
Core Duo T2400	65nm	1.83GHz	667MHz	2MB L2	11
Core Duo T2300	65nm	1.66GHz	667MHz	2MB L2	10
Core Solo T1400	65nm	1.83GHz	667MHz	2MB L2	11
Core Solo T1300	65nm	1.66GHz	667MHz	2MB L2	10

Note: With CPU speed changing rapidly, there might be faster CPU on the market by the time you received this installation guide. This table is kindly for your references only.

This motherboard provides FSB Jumper settings for users to adjust.

AOpen recommend on "A" default to ensure MB quality



Over-clocking not guarantee by AOpen. AOpen MB design is under intel & industry standard. Over-clocking may cause your system unstable and damage. Please be careful on using it.

Tip: When you fail to over-clock, you could:

Clear CMOS (JP14) to restore the default setting.
After turning power on, press "Home" immediately until the screen appears.

JP14 Clear CMOS

You can clear CMOS to restore system default setting. Follow the procedure below.

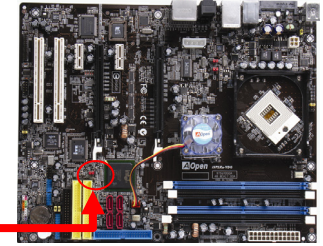
Turn off the system and unplug the AC power.

Remove ATX power cable from connector PWR3.

Locate JP14 and short pins 2-3 for a few seconds.

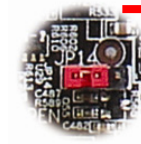
Return JP14 to its normal setting by shorting pin 1 & pin 2.

Connect ATX power cable back to connector PWR3.



Normal
(Default) 1

Clear CMOS 1

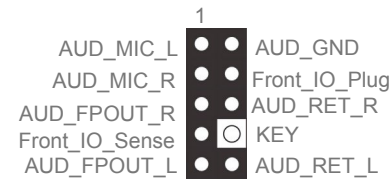


Tip: When should I Clear CMOS?

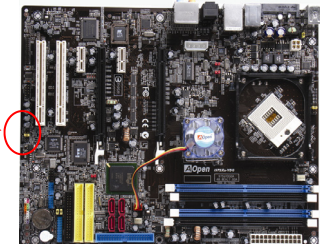
1. Boot fails because of over-clocking...
2. Forget password...
3. Troubleshooting...

Front Audio Connectors

If the housing has been designed with an audio port on the front panel, you'll be able to connect onboard audio to front panel through this connector. By the way, please remove 5-6 and 9-10 jumper caps from the Front Audio Connector before connecting the cable. Please do not remove these 5-6 and 9-10 yellow jumper caps if there's no audio port on the front panel.

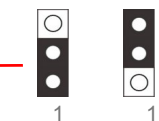
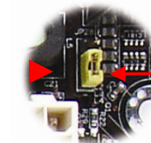
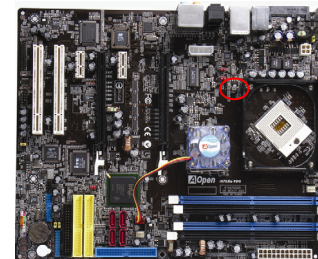


Front Audio Connector



JP28 Keyboard/Mouse Wakeup Jumper

This motherboard provides keyboard / mouse wake-up function. You can use JP28 to enable or disable this function, which could resume your system from suspend mode with keyboard or mouse. The factory default setting is "Disable" (1-2), and you may enable this function by setting the jumper to 2-3.



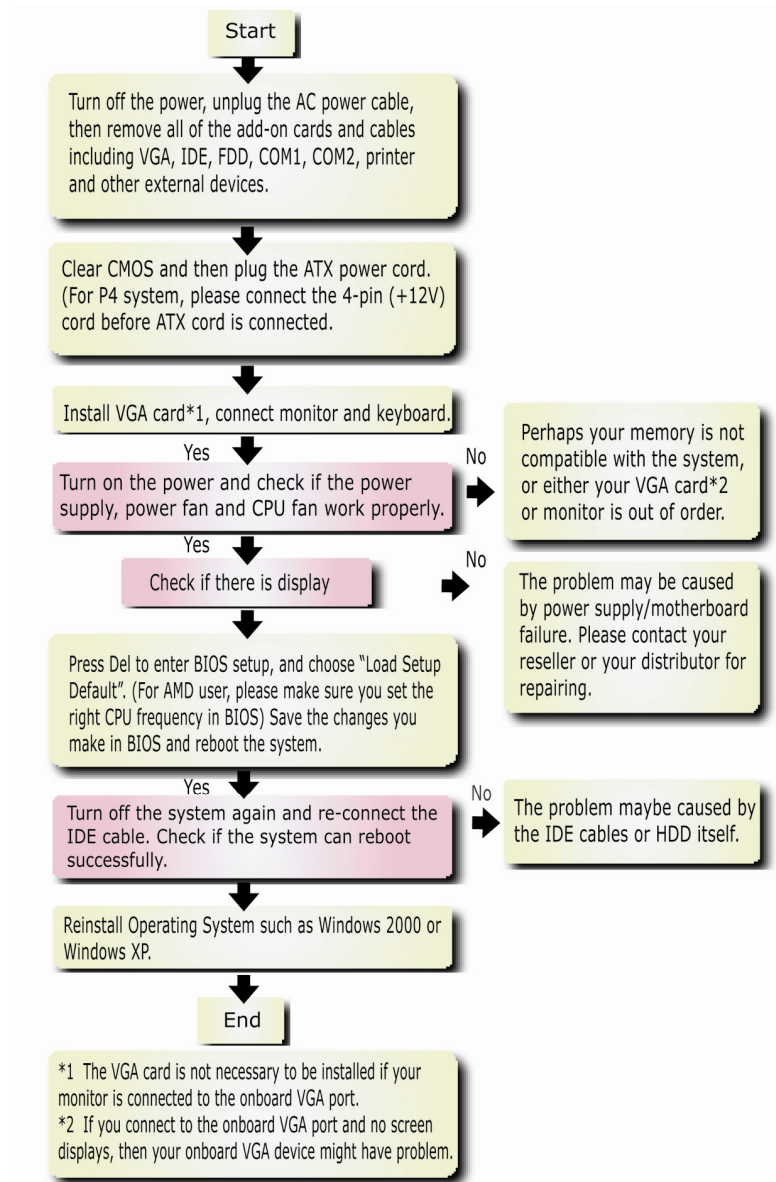
1
Disable
(Default)

1
Enable



Trouble Shooting

If you encounter any trouble to boot you system, follow the procedures accordingly to resolve the problem.



Model Name and BIOS Version

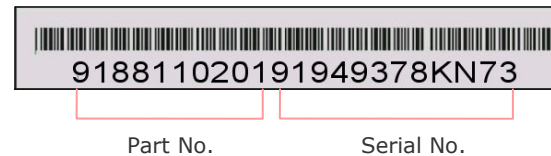
Model name and BIOS version can be found on upper left corner of first boot screen (POST screen). For example:

Phoenix - AwardBIOS v6.00PG, An Energy Star Ally
 Copyright (C) 2004, Phoenix Technologies, LTD.
i975Xa-YDG R1.01 Feb. 09. 2006 AOpen Inc.

i975Xa-YDG is model name of motherboard; **R1.01** is BIOS version

Register Your Motherboard

Thanks for choosing AOpen product, please take time to register the product registration, <http://club.aopen.com.tw/productreg/> This will ensure that you can receive the most updated information from AOpen in the future. Please prepare the following information before you start: **Model Name, Part Number (P/N), Serial Number (S/N) and Purchase Date.** The Part Number and Serial Number are printed on the bar code label. You can find this bar code label on the outside packing or on component side of PCB. For example:



P/N: 91.88110.201 is part number, **S/N: 91949378KN73** is serial number.

Phoenix-Award BIOS Error Message

Beep Sound	Message
1 short (Beep)	System booting is normally.
1 long - 1 short (Beep)	DRAM error
1 long - 2 short (Beep)	Display card or monitor connected error
1 long - 3 short (Beep)	Keyboard error
Long (Beep) continuous	DRAM hasn't insert correctly.

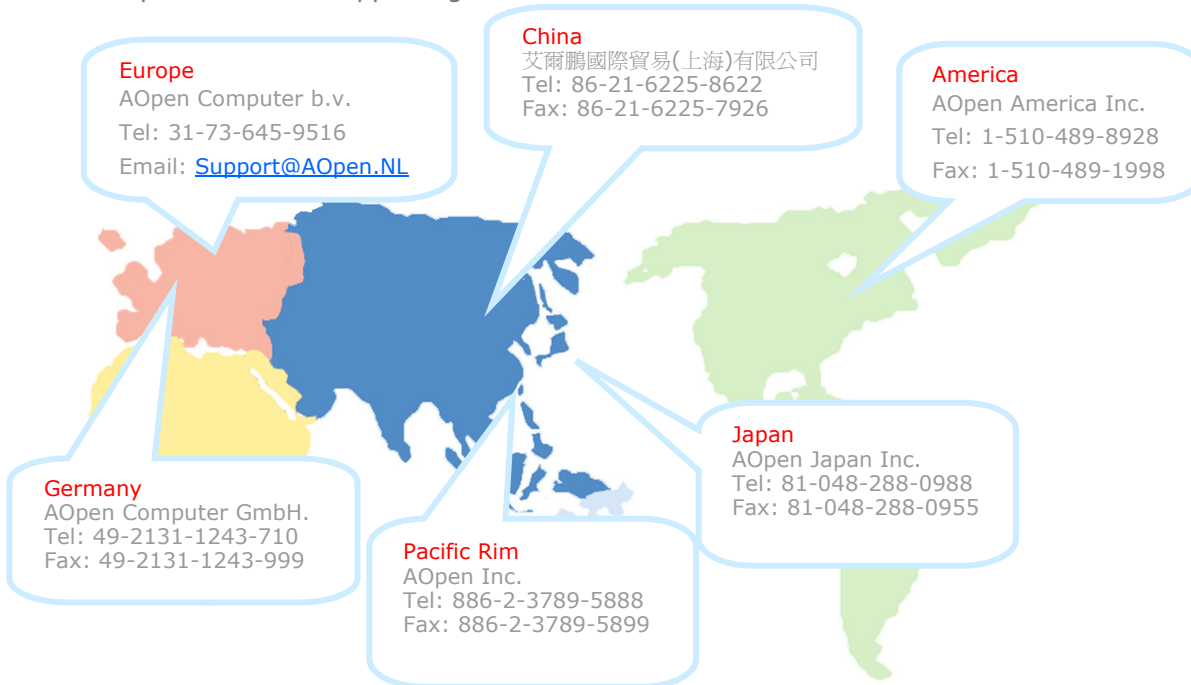


Technical Support

Dear Customer,
Thanks for choosing AOpen products. We invite you to register at <http://www.aopen.com> to become a Gold Member of Club AOpen so as to ensure quality service in the future. In order to maintain the best service to every customer of us, we recommend you to follow the procedures below and seek help from our branches according to the region you buy the product. With your help, we can then continue to provide efficient and the best quality service to every customer.

Thanks very much for your understanding!

AOpen Technical Supporting Team



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America	http://usa.aopen.com/tech/default.htm
Japan	http://aopen.jp/tech/index.htm

Online Manual: To download manual, please log on and then select your preferred language. Under "Type" directory, choose "Manuals" to go to our manual database. You can also find the manual and EIG in AOpen Bonus Pack.
<http://download.aopen.com.tw/>

Test Report: We recommend you to choose board/card/device from the compatibility test reports for assembling your PC. It may prevent incompatibility problems.
<http://global.aopen.com.tw/tech/report/default.htm>

FAQ: Here we list problems that users often encounter and FAQ (Frequently Asked Questions). You may select your preferred language after log on, and may be able to find a solution to your problem.
<http://club.aopen.com.tw/faq/>

Download Software: After log on and having language selected, you may get the latest updated BIOS/utility and drivers you need under "Type" directory. In most case, newer versions of drivers and BIOS have solved earlier bugs or compatibility problems.
<http://download.aopen.com.tw/>

eForum: AOpen eForum is provided to discuss our products with other users, in which your problem probably had been discussed before or will be answered. After log on, you may select your preferred language under "Multi-language".
<http://club.aopen.com.tw/forum>

Contact Us: Please prepare detail system configuration and error symptom before contacting us. The part number, serial number and BIOS version are also very helpful.

Contact Distributors/Resellers: We sell our products through resellers and integrators. They should know your system configuration very well and should be able to solve your problem efficiently and provide important reference for you.