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1.1 A Thank-you Note Before You Get Start

First of all, we would like to express our gratitude for purchasing AOpen products. Once again, this motherboard is designed uniquely to meet all your personal needs with our great industry-designing ability and our everlasting perseverance to the quality of all our products.

This manual will introduce you how this motherboard is installed. Please keep it well for your future reference. If you lost your printed manual, you may also go to our website at http://www.aopen.com to download the updated file.

Now, we would like to invite you to personally experience this user-friendly manual and all of the powerful functions this AOpen product offers.

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1.2 Features of This Manual

To help you grab the useful information of this motherboard and aware of certain conditions that you might need to know, you will see the icons below frequently:



This contains knowledge you should know in process of assembling, or some helpful tips.



Please be careful when you see this mark. It highlights mistakes that occur often during assembling, or something you need to pay attention to.



This tip tells you some useful information that will make your installation smoothly.

1.3 Safety Information



Please wear a wrist strap and attach it to a metal part of the system unit before handling a component. Alternatively, you can also touch an object that is of ground connection or with metal surface.



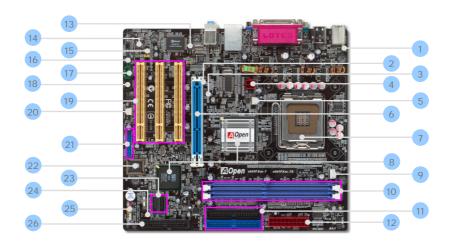
Always unplug the power before you make any jumper setting.



Before you install or remove any components on the motherboard, please make sure to disconnect the power first in case of damaging motherboard or other components.

Chapter 2 Introduction to This Motherboard

2.1 How does your motherboard look like?



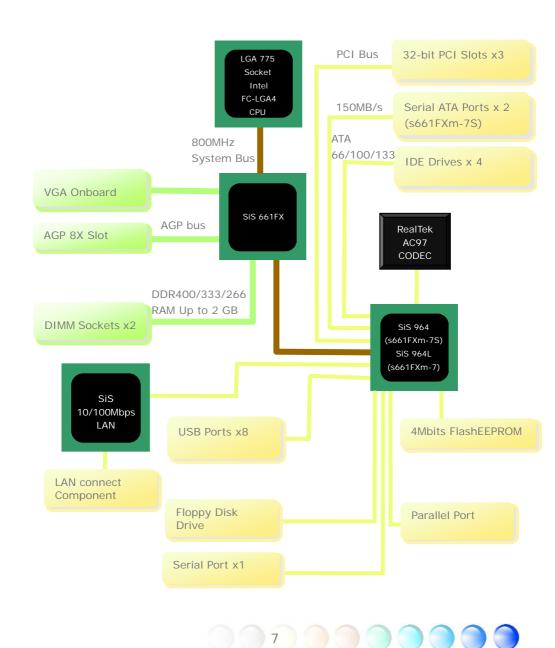
1. JP28 PS2 KB/Mouse Wakeup Jumper	14. Onboard Realtek AC'97 CODEC
2. STBY LED	15. Front Audio Connector
3. AGP Protection LED	16. S/PDIF Connector
4. 4-pin 12V ATX Power Connector	17. AUX_IN Connector
5. SYSFAN1	18. CD_IN Connector
6. AGP Expansion Slot	19. 32-bit PCI Expansion Slots x 3
7. LGA775 CPU Socket supporting Intel FC-LGA4 CPU	20. SYSFAN2 Connector
8. SiS 661FX/964 Chipsets (s661FXm-7S) SiS 661FX/964L Chipsets (s661FXm-7)	21. USB2.0 Connectors x 2
9. CPUFAN Connector	22. DieHard BIOS Lite
10. 184-pin DIMMs x 2	23. Serial ATA Ports x 2 (s661FXm-7S)
11. ATA 133 Connectors x 2	24. JP14 CMOS Data Clear Jumper
12. 20-pin ATX Power Connector	25. Front Panel Connector
13. IRDA Connector	26. FDD Connector

2.2 Specification

Here is the main function of your motherboard.

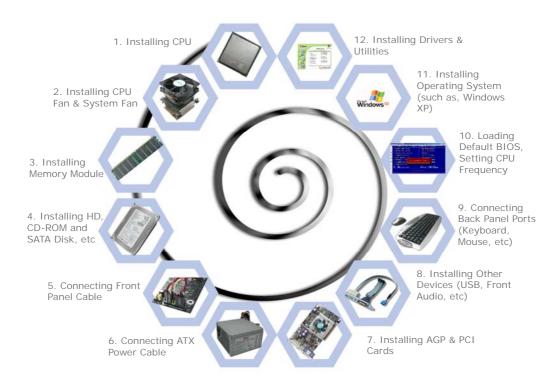
Models	s661FXm-7S	s661FXm-7
	Intel FC-LGA4 CPU	Intel FC-LGA4 CPU
CPU	Socket T	Socket T
	800MHz	800MHz
Chipset	SiS 661FX / SiS 964	SiS 661FX / SiS 964L
	DDR 266/333/400MHz DDR DIMM x 2	DDR 266/333/400MHz DDR DIMM x 2
Main Memory	DIMM Type :	DIMM Type :
	64/128/256/512MB & 1GB	64/128/256/512MB & 1GB
	Max Memory: 2GB	Max Memory: 2GB
Graphics	8X AGP slot	8X AGP slot
	Integrated ATA133 and Serial ATA	Integrated ATA133
IDE	Controller (Raid 0, 1 supported)	Max Disk: 144,000,000GB [by 48 bits
	Max Disk: 144,000,000GB [by 48 bits LBA Spec.]	LBA Spec.]
LAN	SiS 10/100Mbps LAN Controller	SiS 10/100Mbps LAN Controller
Sound	Realtek AC'97 CODEC onboard,	Realtek AC'97 CODEC onboard,
	support 5.1 Channel	support 5.1 Channel
USB	USB 2.0 x 8	USB 2.0 x 8
Slots	AGP x 1 PCI x 3	AGP x 1 PCI x 3
	PS/2 Keyboard x 1	PS/2 Keyboard x 1
	PS/2 Mouse x 1	PS/2 Mouse x 1
	USB Port x 4	USB Port x 4
	LAN Port x 1,	LAN Port x 1
Back Panel I/O	COM Port x 1	COM Port x 1
	VGA Port x 1	VGA Port x 1
	Printer Port x 1	Printer Port x 1
	Speaker_Out x 1	Speaker_Out x 1
	Line_In x 1, MIC_In x 1	Line_In x 1, MIC_In x 1
	FDD Connector x 1 ATA133 Connectors x 2	FDD Connector x 1 ATA133 Connectors x 2
	Serial ATA Connectors x 2	Front Panel x 1
	Front Panel x 1	Front Audio x 1
On Board	Front Audio x 1	CPU FAN x 1, System FAN x 1, Chassis
Connector	CPU FAN x 1, System FAN x 1, Chassis	FAN x 1, IrDA Connector x 1
	FAN x 1, IrDA Connector x 1	S/PDIF Connector x 1,
	S/PDIF Connector x 1,	CD_IN x 1, AUX_IN x 1
	CD_IN x 1, AUX_IN x 1	USB connector x 2
	USB connector x 2	
BIOS	Award PnP 4Mb Flash ROM BIOS	Award PnP 4Mb Flash ROM BIOS
Board Size	244 mm x 220 mm	244 mm x 220 mm

2.3 Block Diagram



Chapter 3 Hardware Installation

3.1 Quick Installation Procedure

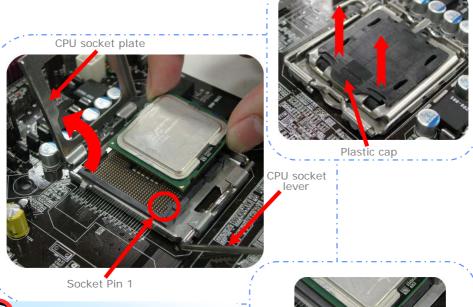


3.2 Installation You Have to Know

Installing CPU

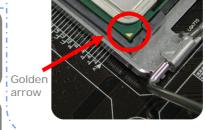
This socket supports FC-LGA4 CPU, which is the latest CPU package developed by Intel. Other forms of CPU package are impossible to be fitted in.

- 1. Pull CPU socket lever and plate up.
- 2. Remove plastic cap from CPU socket plate.
- 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.
- 4. Press down the CPU socket plate and lever to finish CPU installation.



Warning: If you do not match the CPU socket Pin 1 and CPU golden arrow well, you may damage the CPU. And please don't touch CPU socket pins when installing CPU.

Note: It's strongly recommended by Intel to use thermal paste properly to avoid over-heat generated from Prescott CPU.



Installing CPU Fan

1. Gently put down the CPU fan on CPU socket with four sticks aiming correctly to the four mounting holes.



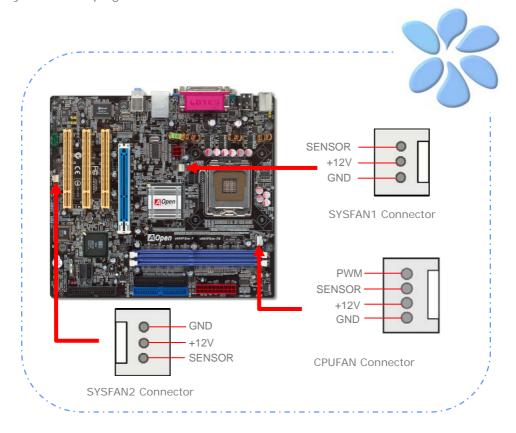
2. Press down four fixing sticks into the holes one by one. Make sure the sticks are firmly fixed into the holes.



Note: The picture above may look different from the product you purchased.

Installing CPU and System Fans

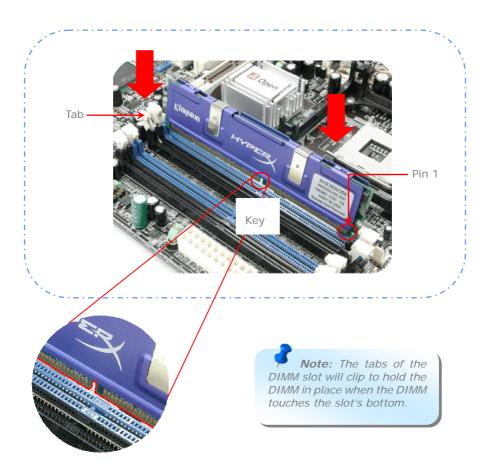
Plug the CPU fan cable to the 4-pin CPUFAN connector. If you have chassis fan, you can also plug it in SYSFAN1 or SYSFAN2 connector.



Note: Some CPU fans do not have sensor pin so that they cannot support fan monitoring.

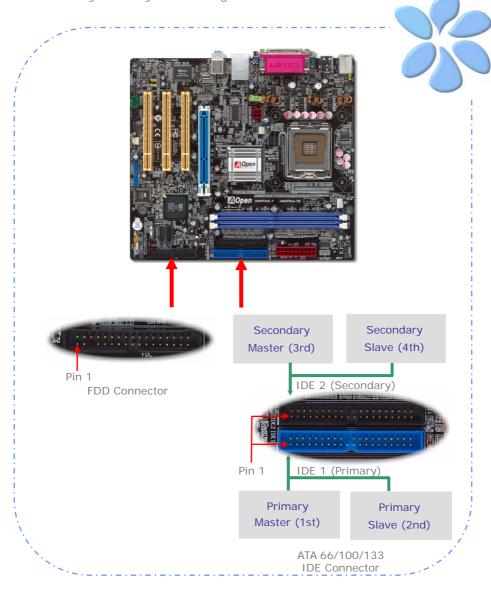
Installing Memory Modules

DIMM slots are designed in Electronic 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.



Connecting IDE and Floppy Cables

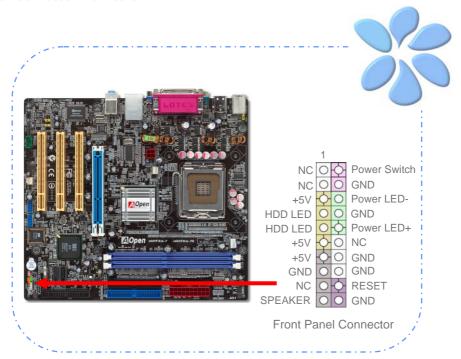
Connect the 34-pin floppy cable and 40-pin, 80-wire IDE cable to floppy connector and IDE connector. Be careful of the pin1 orientation. Wrong orientation may cause system damage.



Connecting Front Panel Cable

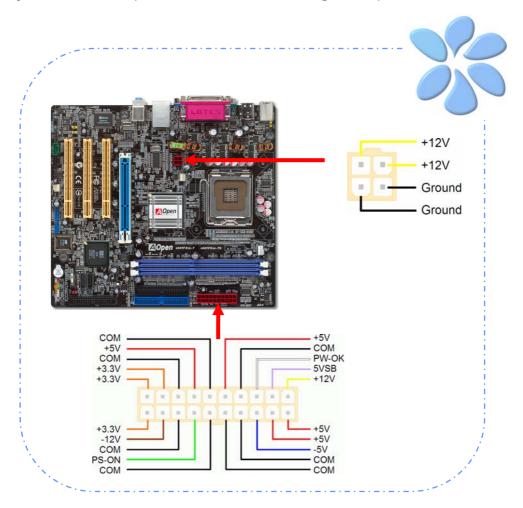
Attach the power LED, speaker and reset switch connectors to the corresponding pins. If you enable "Suspend Mode" item in BIOS Setup, the ACPI & Power LED will keep flashing while the system is in suspend mode.

Locate the power switch cable from your ATX housing, which is a 2-pin female connector from the housing front panel. Plug this connector to the soft-power switch connector marked SPWR.



Connecting ATX Power Cables

This motherboard comes with a 20-pin and 4-pin ATX power connector as shown below. Make sure you plug them in the right direction. We strongly recommend you to insert the 4-pin connector before connecting the 20-pin connector.



3.3 Other Installation for Your Reference

Setting CPU Voltage and Frequency

Setting CPU Core Voltage

This motherboard supports Voltage ID (VID) function to detect CPU voltage automatically during power-on. It's not necessary to set CPU core voltage.

Setting CPU Frequency

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

BIOS Setup > Frequency / Voltage Control > CPU Speed Setup

(Users will do the overclocking at their own risks!!)

CPU Ratio	8x, 10x 24x, 25x, 26x, 27x, 28x
CPU FSB (Adjustment manually)	FSB = 100MHz-250MHz by 1MHz Stepping CPU Overclocking

Processor Frequence	cy FSB	CPU Ratio	Cache
4.00G	800MHZ	20x	1MB L2
3.80G 3.60G	800MHZ 800MHZ	19x 18x	1MB L2 1MB L2
3.40G	800MHZ	17x	1MB L2
3.00G	800MHZ	15x	1MB L2 1MB L2
2.80G	800MHZ	14x	1MB L2
3.20G 3.06G 2.93G 2.80G	533MHZ 533MHZ 533MHZ 533MHZ	24x 23x 22x 21x	256K L2 256K L2 256K L2 256K L2
	3.80G 3.60G 3.40G 3.20G 3.00G 2.80G 3.20G 3.06G 2.93G 2.80G	3.80G 800MHZ 3.60G 800MHZ 3.40G 800MHZ 3.20G 800MHZ 3.00G 800MHZ 2.80G 800MHZ 2.80G 800MHZ 2.80G 533MHZ 3.06G 533MHZ 2.93G 533MHZ 2.80G 533MHZ	3.80G 800MHZ 19x 3.60G 800MHZ 18x 3.40G 800MHZ 17x 3.20G 800MHZ 16x 3.00G 800MHZ 15x 2.80G 800MHZ 14x 3.20G 533MHZ 24x 3.06G 533MHZ 23x 2.93G 533MHZ 22x

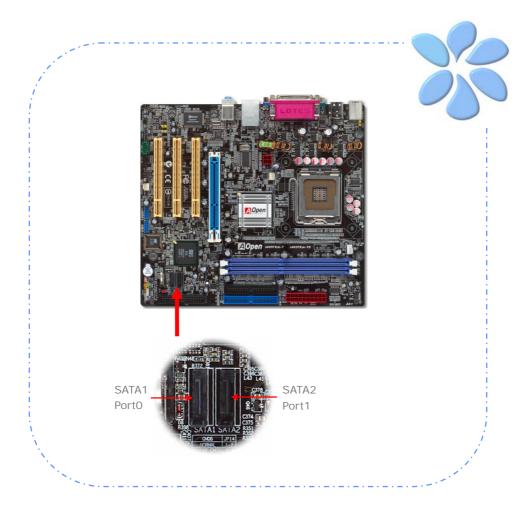
Note: Some CPU fans do not have sensor pin so that they can't support fan monitoring.

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.

Warning: SiS 661FX chipset support maximum 800MHz (200MHz*4) system; higher clock setting may cause serious system damage.

Connecting Serial ATA (for s661FXm-7S only)

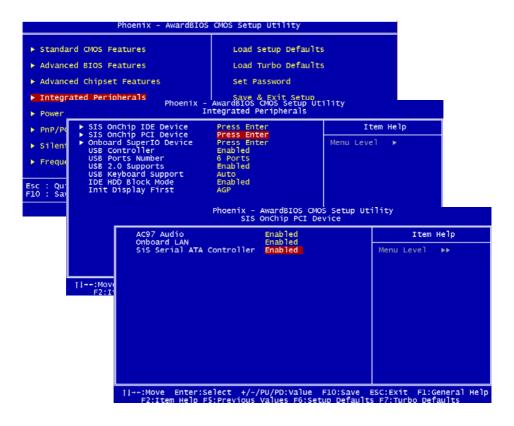
To connect a serial ATA disk, you have to have a 7-pin serial ATA cable. Connect two ends of the serial ATA cable to the serial ATA header on the motherboard and the disk. Like every other traditional disk, you also have to connect a power cable. Please be noted that it is a jumper free implement; you don't need to set jumpers to define a master or slave disk. When serial ATA hard disks are installed on serial ATA ports, the one connected on Port0 (SATA1) will be set as the first boot device automatically. *Please note that it doesn't support Hot-Plug in function.*



Adjusting your Hard Disk Setting (for s661FXm-7S only)

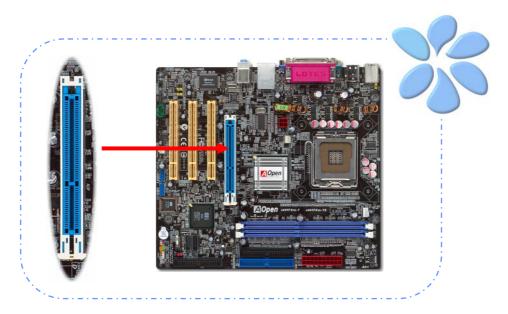
Except its original 2 sets of parallel IDE, this motherboard supports the latest serial ATA hard disk. If you are unable to find your newly installed serial ATA hard disks on your operating system after having them installed, the problem may lie in the BIOS setting. You can simply adjust BIOS settings to have them work properly.

After installing your hard disks properly, you can directly go to BIOS setting screen for adjustment. Simply pressing "Integrated Peripherals \rightarrow SIS OnChip PCI Device \rightarrow SIS Serial ATA Controller" to either enable or disable SATA interface.



Connecting AGP 8X Expansion Slot

This motherboard provides an AGP 8X slot. The AGP 8X is a bus interface targeted for high-performance 3D graphic. Traditionally AGP used both rising and falling edge of the 66MHz clock for 4X AGP, and the data transfer rate could achieve 66MHz x 4bytes x 4 = 1056MB/s. Now AGP is moving to AGP 8X mode, which is upgraded to 66MHz x 4bytes x 8 = 2.1GB/s.

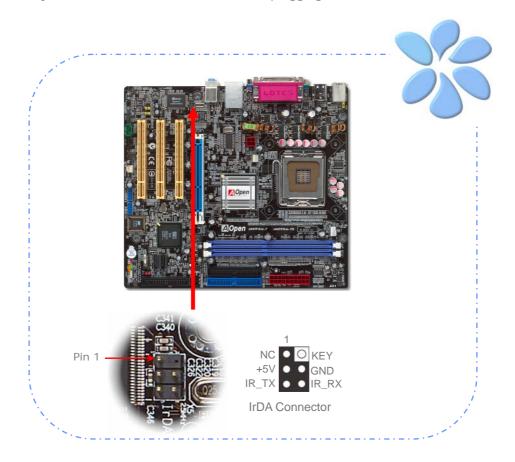


Warning: It is strongly recommended not adjust AGP/PCI voltage/clock when you connect SATA device. It is because when the voltage/clock for AGP/PCI is adjusted, the SATA clock cannot remain at 100MHz, and the system will therefore be unstable.

Connecting IrDA

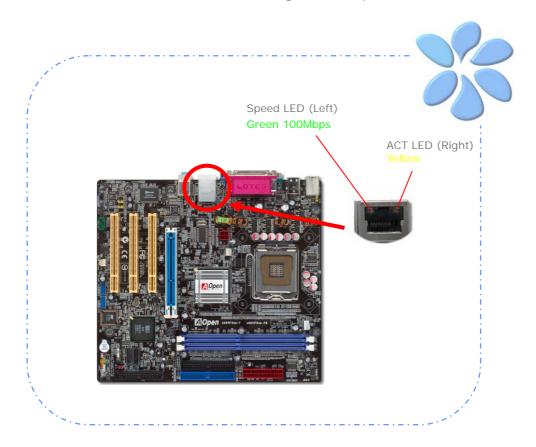
The IrDA connector can be configured to support wireless infrared module, with this module and application software such as Laplink or Windows Direct Cable Connection, user can transfer files to or from laptops, notebooks, PDA devices and printers. This connector supports both HPSIR (115.2Kbps, 2 meters) and ASK-IR (56Kbps).

Install an infrared module onto the IrDA connector and enable the infrared function from BIOS Setup, UART Mode, you can use this function. Please make sure you connect correct orientation when plugging IrDA module.



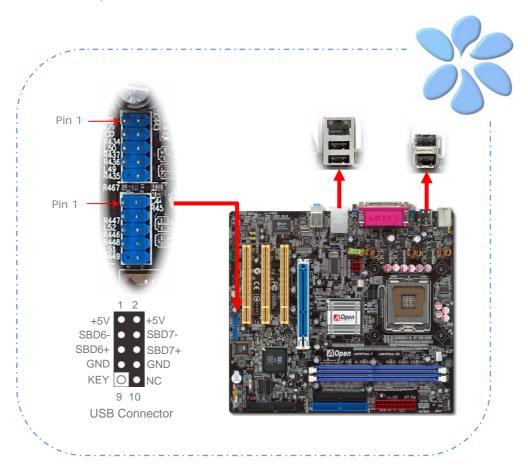
10/100Mbps LAN Supported

On the strength of SiS LAN controller on board, this motherboard provides 10/100Mbps Ethernet for office and home use. The Ethernet RJ45 connector is located on the top of USB ports. The right hand side LED indicates link mode; it lights in yellow when linking to network. The left hand side LED indicates the transfer mode and will light in green when data is transferring at 100Mbps (never lights while at 10Mbps). To enable or disable this function, you may simply adjust it through BIOS. To enable LAN wakeup function, you have to set the "Wake on PCI Card" enable in the BIOS "Power Management Setup" section.



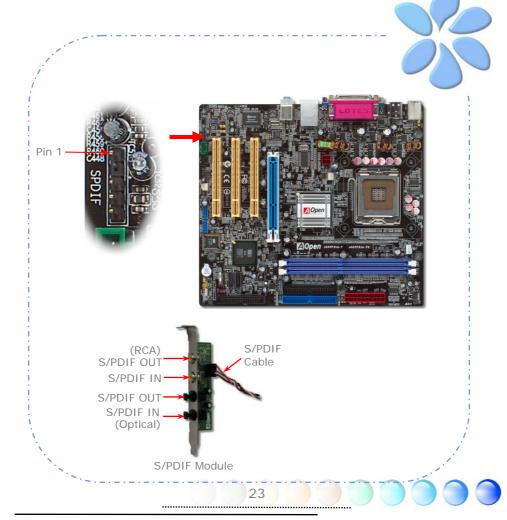
Connecting USB2.0

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



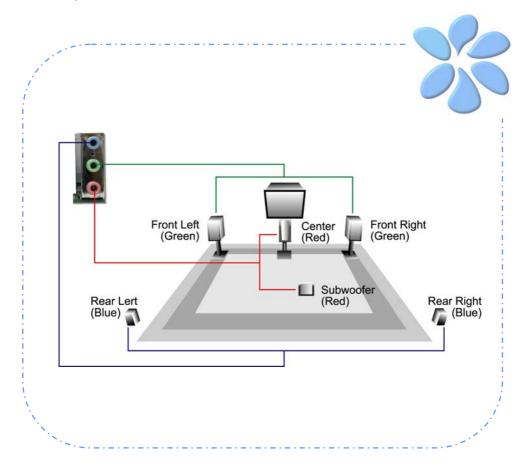
Connecting S/PDIF

S/PDIF (Sony/Philips Digital Interface) is a newest audio transfer file format, which provides impressive audio quality through optical fiber and allows you to enjoy digital audio instead of analog audio. Through a specific audio cable, you can connect the S/PDIF connector to other end of the S/PDIF audio module, which bears S/PDIF digital output. Normally there are two S/PDIF outputs as shown, one for RCA connector, the most common one used for consumer audio products, and the other for optical connector with better audio quality. Same as outputs, you can also connect RCA or optical audio products to input connectors on the module and have the voice or music come out from your computer. However, you must have a S/PDIF supported speaker/amplifier/decoder with S/PDIF digital input/output to connect to the S/PDIF digital input/output to make the most out of this function.



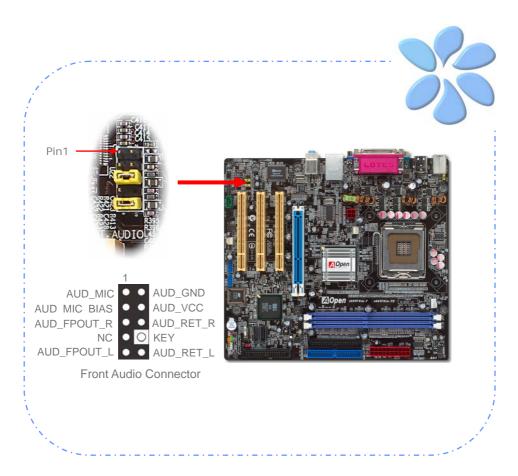
Super 5.1 Channel Audio Effect

This motherboard comes with an AC'97 CODEC, which supports high quality of 5.1 Channel audio effects, bringing you a brand new audio experience. On the strength of the innovative design of AC'97 CODEC, you're able to use standard line-jacks for surround audio output without connecting any external module. To apply this function, you have to install the audio driver in the Bonus Pack CD as well as an audio application supporting 5.1 Channel. Picture below represents the standard location of all speakers in 5.1 Channel sound tracks. Please connect the plug of your front speakers to the green "Speaker out" port, rear speakers' plug to the blue "Line in" port and both of the center and subwoofer speakers to the red "MIC in" port.



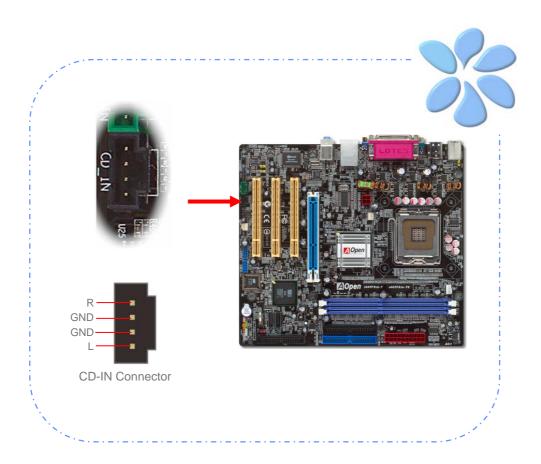
Connecting Front Audio

If the housing is 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 the jumper cap from the Front Audio Connector before you connect the cable. Do not remove this yellow jumper cap if your housing doesn't have an audio port on the front panel.



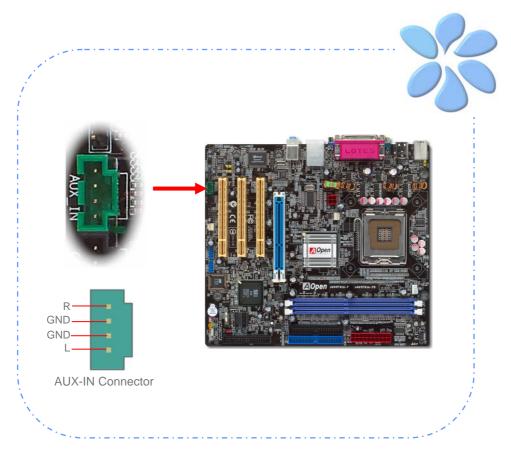
Connecting CD_IN

This connector is designed to connect CD Audio cable from CDROM or DVD drive to onboard sound.



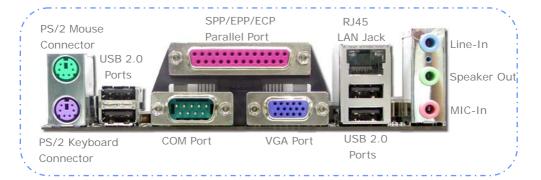
Connecting AUX_IN

This connector is used to connect MPEG Audio cable from MPEG card to onboard sound.



Colored Coded Back Panel

The onboard I/O devices have PS/2 Keyboard, PS/2 Mouse, RJ-45 LAN Connector, COM, VGA port, Printer, USB, and AC'97 sound ports. The view angle of drawing shown here is from the back panel of the housing.



PS/2 Keyboard: For standard keyboard, which use a PS/2 plug.

PS/2 Mouse: For PC-Mouse, which use a PS/2 plug.

USB Port: Available for connecting USB devices.

Parallel Port: To connect with SPP/ECP/EPP printer.

COM Port: To connect with pointing devices, modem or others serial

devices.

RJ-45 LAN Port: To connect Ethernet for home or office use.

VGA Connector: To connect with PC monitor.

Speaker Out: To External Speaker, Earphone or Amplifier.

Line-In: Comes from the signal sources, such as CD/Tape player.

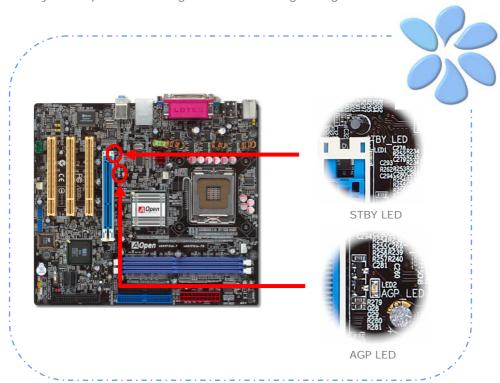
MIC-In: For Microphone

LED Indication

LED indication including Standby LED and AGP LED are AOpen's considerate designs that aim at providing you friendly system information.

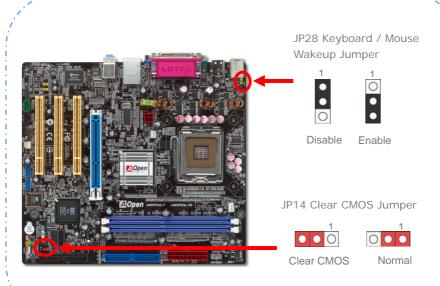
STBY LED will light up when power is provided to the motherboard, giving you a convenient indication check the system power status in circumstances such as power on/off, stand-by mode and RAM power status during Suspend to RAM mode.

AGP LED aims to protect your motherboard from being damaged by over voltage of AGP card. When AGP Protection Technology is implemented, this motherboard will automatically detect the voltage of AGP card and prevent your chipsets from being burnt out. Please note that if you install an AGP card with 3.3V, which is not supported by SiS 661FX chipset, the AGP LED on the motherboard will light up to warn you the possible damage of the exceeding voltage.



3.4 Jumper Settings

JP28 Keyboard / Mouse Wakeup Jumper This motherboard provides PS2 keyboard / mouse wake-up function.



You can clear CMOS to restore system default setting. To clear the CMOS, follow the procedure below.

- 1. Turn off the system and unplug the AC power.
- 2. Remove ATX power cable from connector PWR2.
- 3. Locate JP14 and short pins 2-3 for a few seconds.
- 4. Return JP14 to its normal setting by shorting pin 1 & pin 2.
- 5. Connect ATX power cable back to connector PWR2.

JP14 Clear CMOS Data

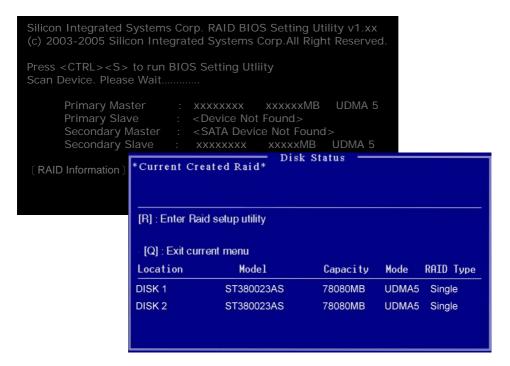
Chapter 4 Special Features and Utilities

RAID (Redundant Array of Independent Disks)

With the latest chipsets implemented, SiS 964 provides RAID 0 and RAID 1 function for the Serial ATA hard disks. You may use RAID BIOS Setting Utility provided by SiS to setup your disk array. For more RAID introduction, please visit our website: http://english.aopen.com.tw/tech/techinside/RAID.htm

RAID BIOS Setting Utility (for s661FXm-7S only)

In order to make sure your system can recognize and operate Serial ATA RAID device smoothly, we have to enter RAID BIOS Setting Utility to do some configuration. After finishing the BIOS setup and reboot, you will see [Press <CRTL><S> to run BIOS Setting Utility] about half way through the boot up. When you enter you will be presented with a screen as shown below. You can use this utility to create or delete your disk arrays.



Other Useful Features

With excellent design ability of R&D team, AOpen boasts for its various powerful and handy features that come with our product like follows. You are welcomed to visit our technical website to learn more about those features. http://english.aopen.com.tw/tech/techinside



Chapter 5 Setting BIOS

Introduction

System parameters can be modified by going into BIOS Setup menu; this menu allows you to configure the system parameters and save the configuration into the 128 bytes CMOS area (normally in the RTC chip or in the main chipset).

The Phoenix-Award $BIOS^{TM}$ that installed in the Flash ROM of the motherboard is a custom version of an industry standard BIOS. The BIOS provides critical low-level support for standard devices such as hard disk drives, serial and parallel ports.

AOpen's R&D engineering team had optimized most BIOS settings of this motherboard. However, some default settings of BIOS cannot fine-tune those sections that controlled by chipset. Therefore, this chapter is intended to guide you and help you to configure some other settings.

To enter BIOS setup menu, press when POST (Power-On Self Test) screen is shown on your monitor.

Note: Because BIOS code is the most often changed part on motherboard, the BIOS information contained in this manual may be different from the BIOS version that comes with your motherboard.

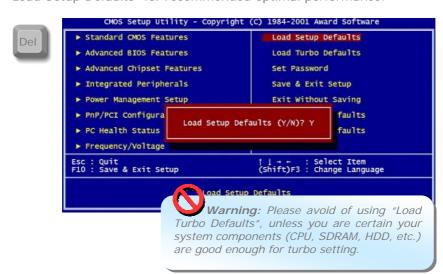
How To Use Phoenix-Award™ BIOS Setup Program

Generally, you can use arrow keys to highlight items that you want to choose, press <Enter> key to select, and use <Page Up> and <Page Down> keys to change setting values. You can press <Esc> key to quit Phoenix-Award $^{\text{TM}}$ BIOS setup program. The following table provides details about how to use keyboard in the Phoenix-Award $^{\text{TM}}$ BIOS setup program.

Key	Description
Page Up or +	Change setting to next value or increase the value.
Page Down or -	Change setting to previous value or decrease value.
Enter	Select the item.
Esc	In main menu: Quit without saving any changes. In sub menu: Exit current menu to main menu.
Up Arrow	Highlight previous item.
Down Arrow	Highlight next item.
Left Arrow	Move the light bar to left side of menu.
Right Arrow	Move the light bar to right side of menu.
F6	Load Setup Default setting value from CMOS.
F7	Load turbo setting value from CMOS.
F10	Save changed settings and exit setup program.

How To Enter BIOS Setup

After finishing the jumper settings and connecting cables, you can power on and enter the BIOS Setup. Press during POST (Power-On Self Test) and choose "Load Setup Defaults" for recommended optimal performance.

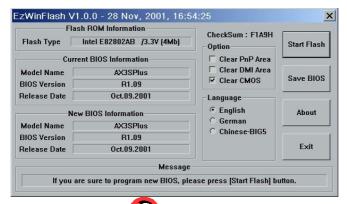


BIOS Upgrade under Windows environment



With outstanding R&D ability of AOpen, we now bring you a whole new BIOS Flash wizard ---- EzWinFlash. With an eye to convenience for users, EzWinFlash combines the BIOS binary code and flash module together, so the only thing you have to do is just clicking on the utility you downloaded from web and let it help you complete the flash process automatically. EzWinFlash detects your motherboard and checks the BIOS version cleverly to prevent your system from any possible failure. Moreover, EzWinFlash has been taken into consideration to go with any windows platform you might be using, no matter if you're using Windows 98, 98SE/ME, NT4.0/2000, or Windows XP.

In the meanwhile, in order to provide a much more user-friendly operating environment, AOpen EzWinFlash is natively designed to have multi-language function to provide easier way for user in changing BIOS setting.



Caution: You are taking a risk of BIOS flash failure when you update your system. If your motherboard is working stable, and there are no major bugs to be fixed by a latter BIOS revision, we recommend that you DO NOT upgrade your BIOS. If you intent on upgrade PLEASE MAKE SURE you get the right BIOS revision for your motherboard model so as to avoid any possible failure

Note: The model name on this BIOS picture is for reference only. It may not be the same model with your motherboard.



You may accomplish BIOS upgrade procedure with EzWinFlash according to following steps, and it's STRONGLY RECOMMENDED to close all applications before you start the upgrades.

Download the latest version of BIOS package zip file from AOpen official web site. (Ex: http://english.aopen.com.tw/)

Unzip the downloaded BIOS package (ex: S661FXM7S102.ZIP) with WinZip (http://www.winzip.com) in Windows environment.

Save the unzipped files into a folder, for example, S661FXM7S102.EXE & S661FXM7S102.BIN.

Double click S661FXM7S102.EXE; EzWinFlash will detect the model name and BIOS version of your motherboard. If you collect wrong BIOS, you will not be allowed to proceed with the flash steps.

You may select a preferred language in main menu, then click [Start Flash] to begin the BIOS upgrade procedure.

EzWinFlash will complete all the process automatically, and a dialogue box will pop up to ask you to restart Windows. Click [YES] to reboot Windows.

Press at POST to enter BIOS setup screen; choose "Load Setup Defaults", then "Save & Exit Setup". Done!

It is strongly recommended NOT to turn off the power or run any applications during FLASH PROCESS.

Warning: The new BIOS upgrade will permanently replace your original BIOS setting when flashing. You may need to reconfigure the BIOS setting before your system goes back to work as normal.

Vivid BIOS technology



Have you been fed up with the conservative and immutable POST screen? Let's rule out the tradition idea that POST screen are stiff and frigid, and let AOpen show you the newly developed VividBIOS to experience the lively vivid colorful POST screen!

Unlike earlier graphic POST screen which could occupy the whole screen and mask text information during POST, AOpen VividBIOS deals with graphics and texts separately, and makes them running simultaneously during POST. With this innovative design, VividBIOS now brings you a beautiful and sleek 256 colors screen without missing any important information shown on POST screen.

In addition, the limited space of BIOS ROM is another big issue. When all of the traditional BIOS can only show space-consuming and uncompressed Bitmap, AOpen has considerately tuned the BIOS to next generation, to recognize the smaller-sized GIF format and even dynamic-showing GIF animation.



Vivid BIOS shares the same fundamental technology with Open JukeBox CD Player, you may use the same EzSkin utility to change your VividBIOS screen or to download your favorite Open JukeBox skin. If you see this little logo shown beside your model name on the motherboard download page, http://english.aopen.com.tw/tech/ezskin/vivid.htm, it is assured that your motherboard supports this innovative feature!

Chapter 6 Installing Drivers



You may think that installing drivers and utilities would be a repeated task of going through those installation wizards and steps-by-steps. Now, you will be surprised with how "Ez" EzInstall could do. Without wizards or steps, all you have to do is to do one click and then it's done. Click and done. Yes. EzInstall makes installation easy and even foolproof!

After putting in the CD, you will be prompted with AOpen welcome page and our branches information.

First, click on the install driver ICON at left side for necessary drivers.

Second, click on the install utility ICON at left side for preferred utilities.

Practically, it's done. But you may also browse CD contents, Readme to get more information or just exit the CD installation.



6.1 Installing Drivers

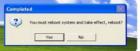
As you may see from the Installing driver page, EzInstall had picked up necessary for your motherboard. All you have to do is just click on the "GO", and no more steps afterward, of all listed drivers, grey checks indicate necessary drivers; you cannot click them off. Red checks can be disabled if you don't want to install them now.



Press the icon will prompt the "Install Driver" page. You may also press "Back" to return to the Main page.







Once clicking "GO", EzInstall will run the installing procedure automatically, and prompt a reboot dialog (Some drivers or utilities may skip the reboot part).

6.2 Installing Utilities

Installing Utilities is virtually the same as installing drivers. AOpen provides you many friendly and powerful utilities to manage your system. You may find lots of fabulous utilities listed there, and all you have to do is to click on the "GO", then it will install the utilities to your system right away without complicated steps.



Press the icon will prompt the "Install Utilities" page for your selection. You may also press "Back" to get back to the Main page.



Chapter 7 Troubleshooting



Start

Turn off the power and unplug the AC power cable, then remove all of the add-on cards and cables including VGA, IDE, FDD, COM1, COM2, printer and other external devices.

Clear CMOS and then plug the ATX Power cord.
(For P4 system, please connect the 4-pin (+12V)
cord before ATX cord is connected.

Install VGA card*1, connect monitor and keyboard.

Turn on the power and check if the power supply, power fan and CPU fan work properly.

Yes Check if there is display

Press Del to enter BIOS setup, and choose "Load Setup Default". (For AMD user, please make sure you set the right CPU frequency in BIOS) Save the changes you make in BIOS and reboot the system.

Turn off the system again and re-connect the IDE cable. Check if the system can reboot successfully.

Reinstall operating system such as Windows 2000 or Windows XP.

End

- *1 The VGA card is not necessary to be installed if your monitor is connected to the onboard VGA port.
- *2 If you connect to the onboard VGA port and no screen displays, then your onboard VGA device might have problem.

Perhaps your memory is not compatible with the system, or either your VGA card*2 or monitor is out of order.

No

The problem maybe caused by power supply/motherboard failure. Please contact your reseller or your distributor for repairing.

The problem maybe caused by the IDE cables or HDD itself.

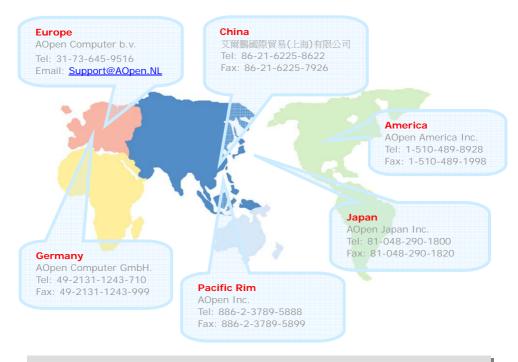
Chapter 8 Technical Support

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



Europe Email: <u>Support@AOpen.NL</u>

Pacific Rim: http://www.aopen.com.tw/tech/default.htm
China: http://www.aopen.com.cn/tech/default.htm
America: http://usa.aopen.com/tech/default.htm

Japan: http://aopen.jp/tech/index.html

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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:



s661FXm-7S is model name of motherboard; R1.02 is BIOS version

Register Your Motherboard

Thanks for choosing AOpen product, please register this motherboard at http://club.aopen.com.tw/productreg/ to become a Gold member of Club AOpen, and to ensure high service quality and priority from AOpen. You will also have a chance to play slot machine game to win prize from AOpen. 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 bar code label. You can find this bar code label on the outside packing or on component side of PCB. For example:



Part No.

Serial No.

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 inset correctly.	



Technical Support



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/downloads

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://english.aopen.com.tw/tech/report/default.htm

Willia.

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/downloads

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



THE REAL PROPERTY.

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.