

Enable the Power of mini ITX Form Factor



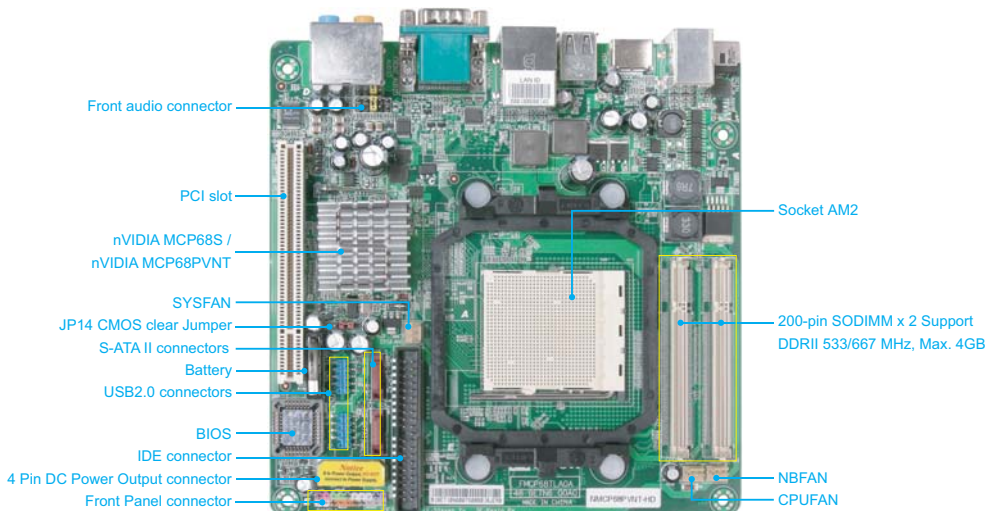
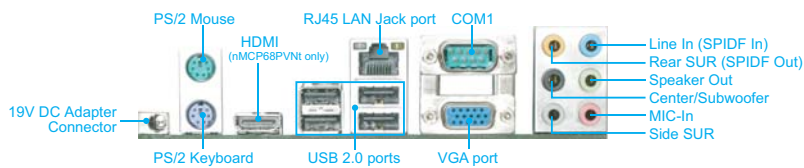
Easy Installation Guide



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



The *first* AM2 mini ITX motherboard in the world

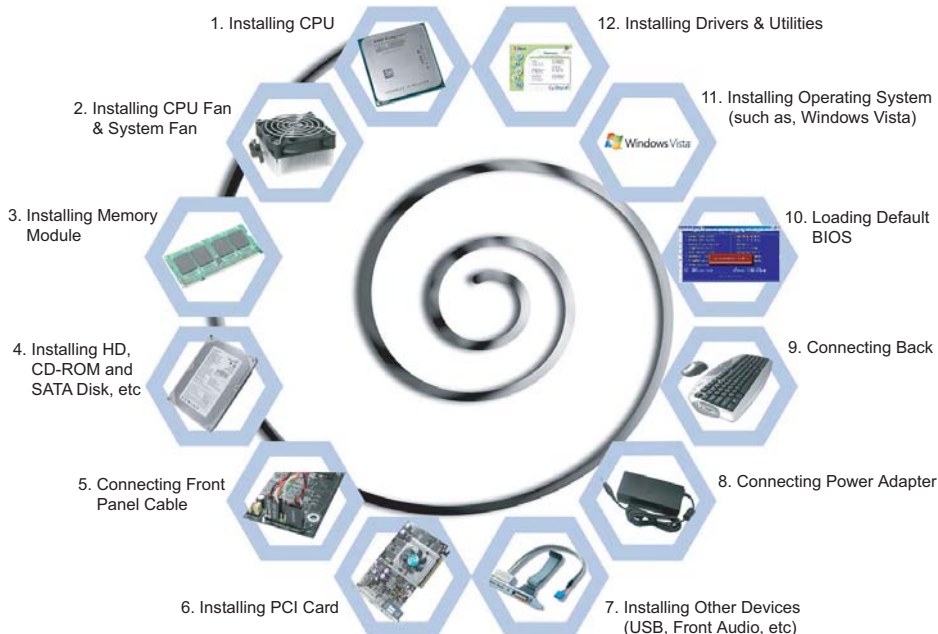


Accessories List



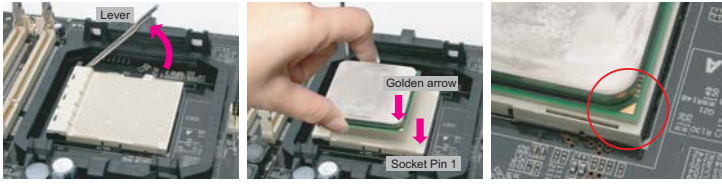
Note :
The pictures above may look slightly different from the product you purchased due to our constant product improvement effort.

Installing By Yourself



1. Installing CPU

1. Erect CPU socket lever up and gently put CPU onto Socket.
2. Press lever back to CPU socket, and then it's done.



Note:

1. If you do not match the CPU socket Pin 1 and CPU golden arrow well, you may damage the CPU.
2. AMD CPU power consumption can not over 65W !

2. Installing CPU Cooler

1. Before installing the CPU cooler, please first add an even layer of heat paste on the surface of the CPU. Install all the CPU cooler components (Please refer to the cooler manual for detailed installation instructions).
2. Please connect the CPU cooler power connector to the CPU_FAN connector located on the motherboard so that the CPU cooler can properly function to prevent CPU overheating.



Note:
The CPU cooler is option, you could buy cooler you like in retail or contact AOpen.

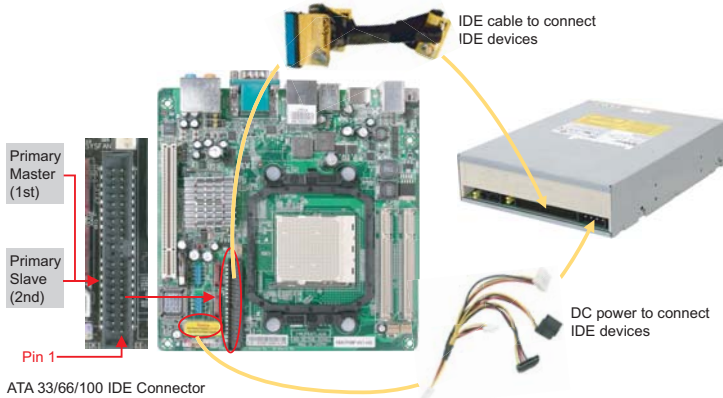
CPU Frequency Table

Spec.	Model	ID / L2 / FSB / Ratio / Freq.	Vender
(DO)45W	Athlon 64 X2 BE-2400	FB2 / 2*512M / 1000MHz / 11.5 / 2.30GHz	AMD
(DO)45W	Athlon 64 X2 BE-2350	FB2 / 2*512M / 1000MHz / 10.5 / 2.10GHz	AMD
(DO)45W	Athlon 64 X2 BE-2300	FB2 / 2*512M / 1000MHz / 9.5 / 1.90GHz	AMD
(DE)45w	Sempron LE-1200	FF1 / 512M / 800Hz / 10.5 / 2.10GHz	AMD
(DD)65w	Athlon 64 X2 4800+	FB1 / 512K*2 / 1000MHz / 12.5 / 2.50GHz	AMD
(DD)65w	Athlon 64 X2 4400+	FB1 / 512K*2 / 1000MHz / 11.5 / 2.30GHz	AMD
(DD)65w	Athlon 64 X2 4000+	FB1 / 512K*2 / 1000MHz / 10.5 / 2.10GHz	AMD
(DD)65w	Athlon 64 X2 3600+	FB1 / 512K*2 / 1000MHz / 9.5 / 1.90GHz	AMD
(DE)45w	Athlon 64 3200+	FF1 / 512K / 1000MHz / 10 / 2.00GHz	AMD
(CZ)65w	Athlon 64 X2 5200+	F33 / 1M*2 / 1000MHz 13.0 / 2.60GHz	AMD
(CZ)65w	Athlon 64 X2 4600+	F33 / 512K*2 / 1000MHz / 12 / 2.40GHz	AMD
(CS)65w	Athlon 64 X2 4600+	F32 / 512K*2 / 1000MHz / 12 / 2.40GHz	AMD
(CZ)65w	Athlon 64 X2 3800+	F33 / 512K*2 / 1000MHz / 10 / 2.00GHz	AMD

Above table is AMD® AM2 Athlon 64 x 2 / 64, Sempron CPU numbers and simple specification for your reference only.

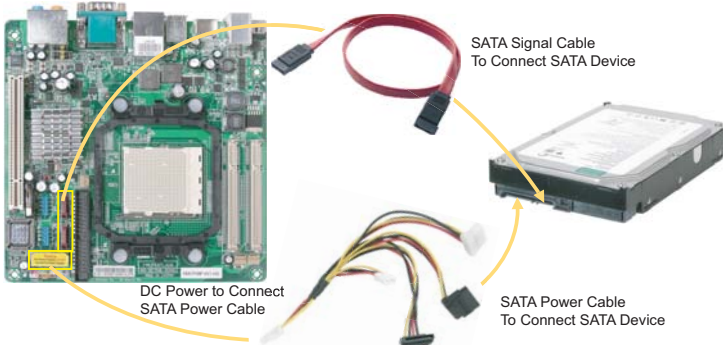
4. Installing IDE Cable

The motherboard provides one IDE connector which allow you to connect two ATA 33/66/100 IDE devices like HDD.



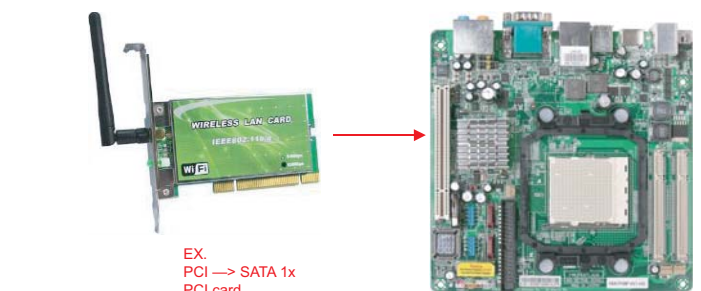
5. Installing SATA Cable

The mother provides two SATA connectors. Connect SATA cable to the on board SATA connector. You can find SATA cable in our package. (this is SATA signal cable) And please also connect 5V power connector with SATA power cable.



6. PCI Installation

The motherboard provides one PCI slot for users to upgrade his PC functions. for expansion. The PCI cards have SATA II and Firewire and USB cards ... etc.

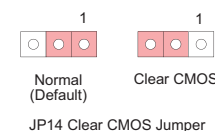


EX.
PCI → SATA 1x
PCI card

7. JP14

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

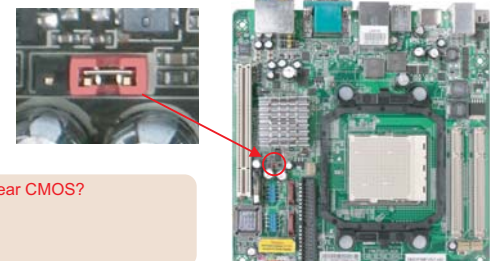
1. Turn off the system and unplug the DC Adaptor from Connector.
2. Locate JP14 and short pins 2-3 for a few seconds.
3. Return JP14 to its normal setting by connecting it to Pin 1-2 again.
4. Connect DC Adaptor back to connector.



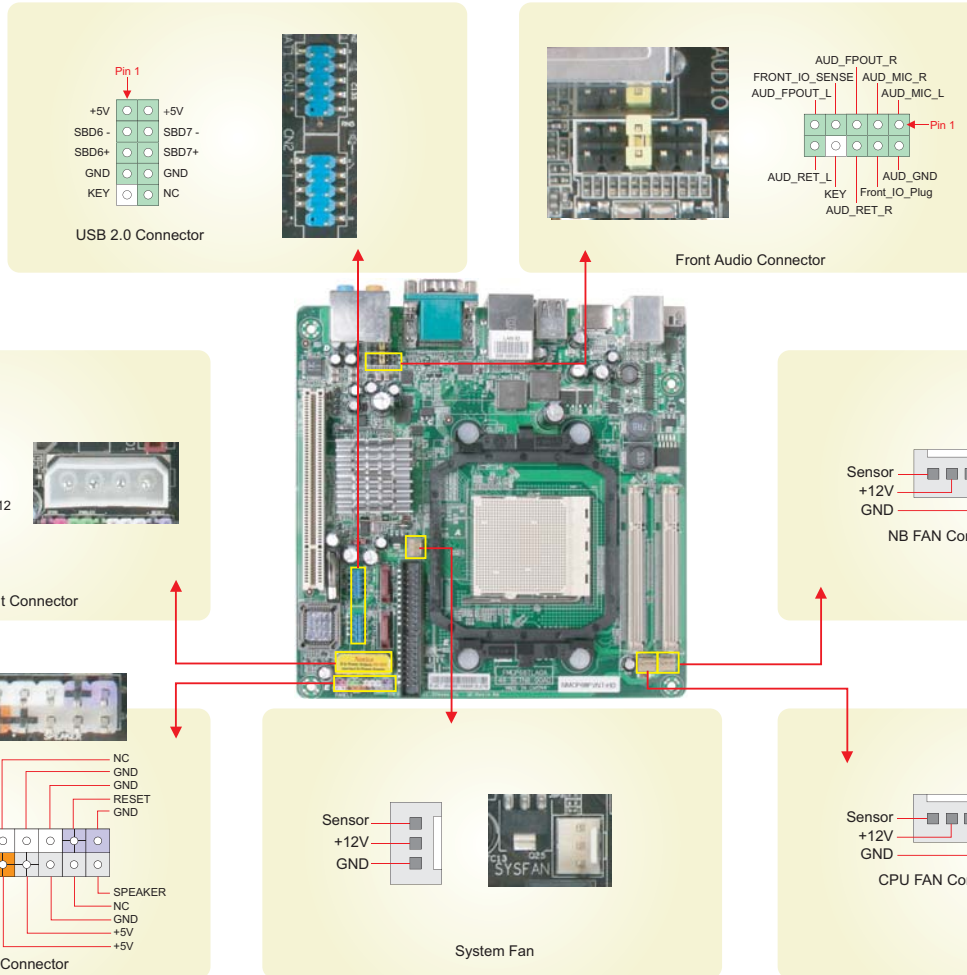
JP14 Clear CMOS Jumper

Tip: When should I clear CMOS?

1. Boot fail
2. Forget password
3. Trouble shooting



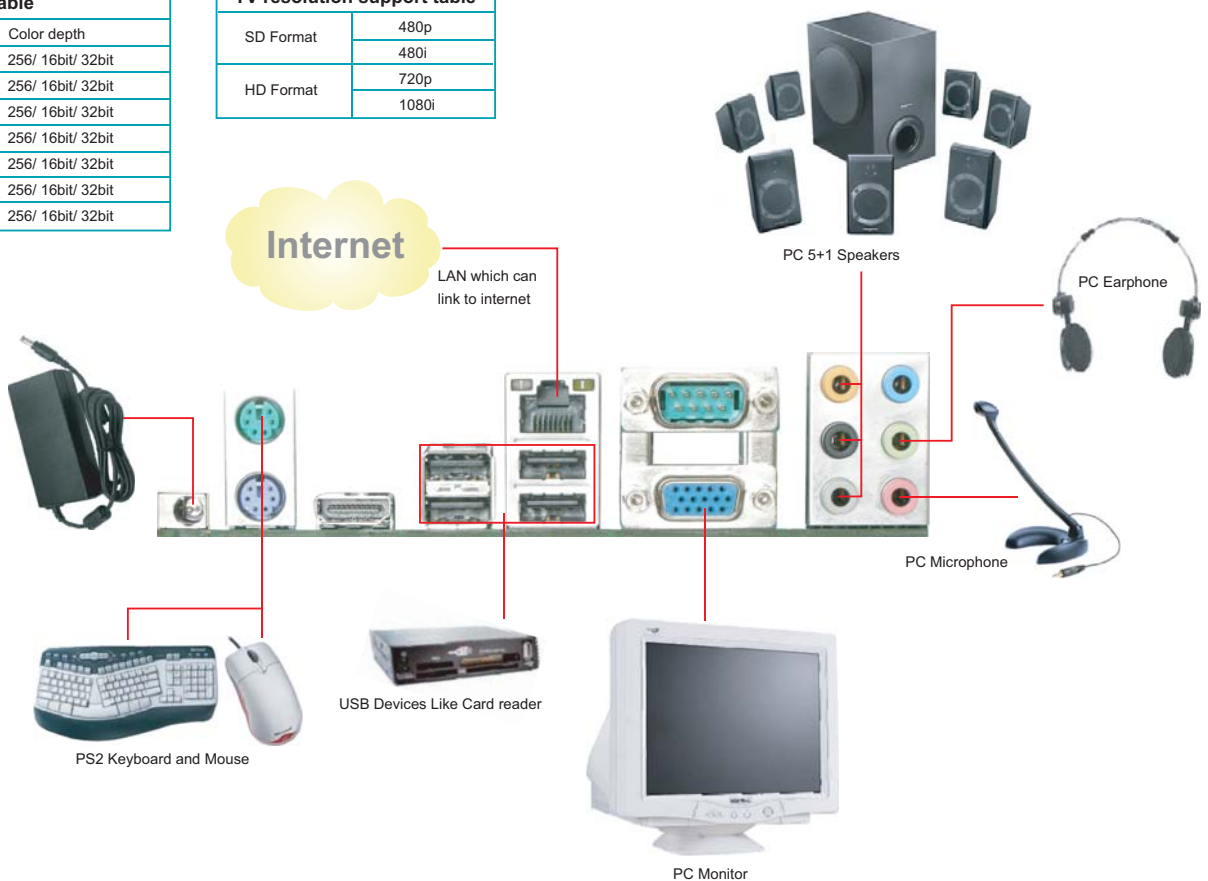
Connectors & PINs Definitions



Back Panel Connections

Resolution	Color depth
1680 x 1050	256/ 16bit/ 32bit
1600 x 1200	256/ 16bit/ 32bit
1440 x 900	256/ 16bit/ 32bit
1280 x 1024	256/ 16bit/ 32bit
1280 x 720	256/ 16bit/ 32bit
1024 x 768	256/ 16bit/ 32bit
640 x 480	256/ 16bit/ 32bit

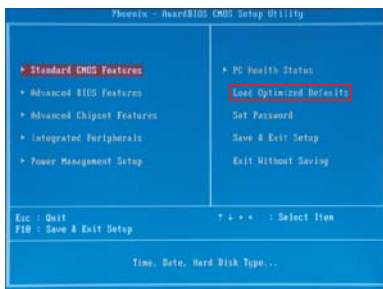
SD Format	480p
	480i
HD Format	720p
	1080i



Power - on and Loading BIOS Setup

Del

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



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.

nMCP68St-LA R1.00 Sep. 02. 2007 AOpen Inc.

nMCP68St-LA is model name of motherboard; R1.00 is BIOS version. This BIOS name maybe different depends on the motherboard you buy.



Warning:
Please avoid of using "Load Optimized Defaults", unless you are certain your system components (CPU, SDRAM, HDD, etc.) have been proven acceptable for use.

Aopen EzInstall and Bonus Pack CD

You can use the autorun 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.



Register Your Motherboard

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: 91.88110.2010 is part number,
S/N: 91949378KN73 is serial number.

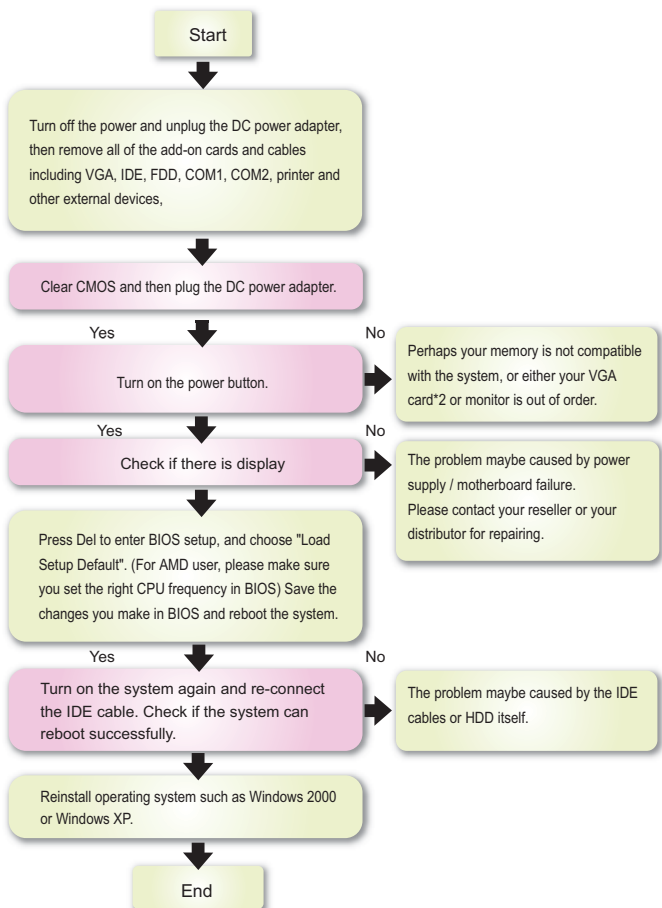
Phoenix-Award BIOS Error Message

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



Trouble Shooting

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



Technical Support

Dear Customer,

Thanks for choosing AOpen products. 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

<p>Europe AOpen Computer b.v. Email: Support@AOpen.NL</p>	<p>China 艾爾騰國際貿易(上海)有限公司 Tel: 86-21-6225-8622 Fax: 86-21-6225-7926</p>	<p>America AOpen America Inc. Tel: 1-408-586-1201 Fax: 1-408-586-1210</p>
<p>Germany AOpen Computer GmbH. Mail: support@aopen.de</p>	<p>Pacific Rim AOpen Inc. Tel: 886-2-7710-1195 Fax: 886-2-7710-1187</p>	<p>Japan AOpen Japan Inc. Fax: +81-048-288-0955</p>

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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://www.aopen.com> > Chose Territory > Download

RCL: We recommend you to choose board/card/device from the compatibility recommend component list for assembling your PC. It may prevent incompatibility problems.
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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://www.aopen.com> > Chose Territory > Tech.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.
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