

MöDT

Cool Stuff is Hot Stuff, MoDT is the Right Stuff

AOpen

mini ITX nMCP7A series
nMCP7AUt-V nMCP7ASt-V

Enable the Power of mini ITX Form Factor



Easy Installation Guide



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

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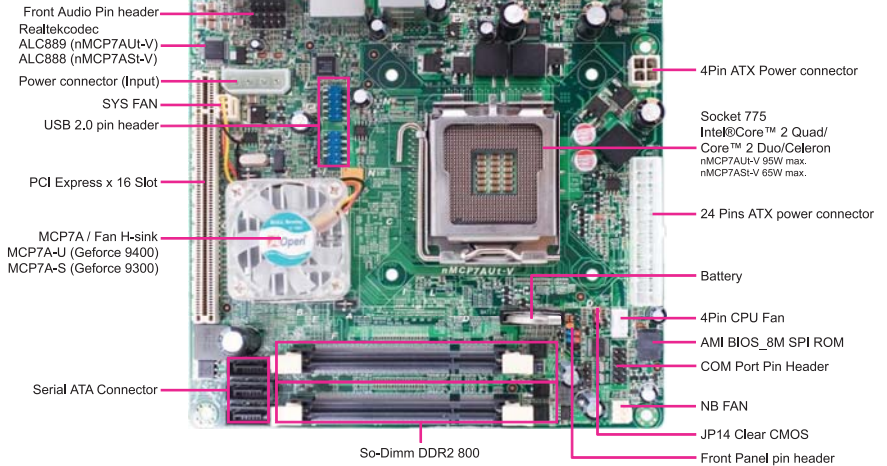
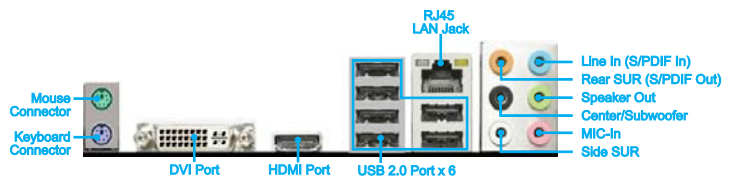
Accessories List



Installing By Yourself



MoDT is initiated by AOpen since 2004

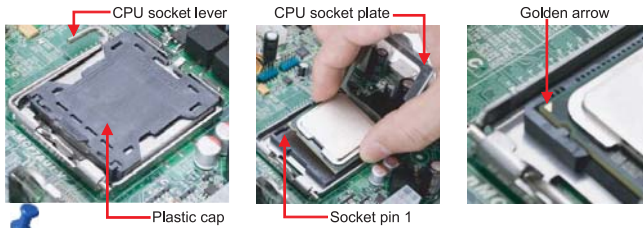


Note: The pictures above may look slightly different from the product you purchased due to our constant product improvement effort.

1. Installing CPU

This socket supports LGA-775 CPU, which is the CPU package developed by intel. Other forms of CPU package are impossible to fitted in.

1. Pull CPU socket lever and plate up .
2. Remove plastic cap from CPU socket plate .
3. 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 CPU socket plate and lever to finish CPU installation .



Note: 1. If you do not match the CPU socket Pin 1 and CPU golden arrow well, you may damage the CPU.
2. Please use only intel box cooler.

CPU Frequency Table

Processor	L2 Cache	FSB	Speed	Ratio	Support BIOS Version
Core 2 Duo E8400	6M	1333	3.0G	9	R1.00
Core 2 Duo E6550	4M	1333	2.33G	7	R1.00
Core 2 Duo E6850	4M	1333	3.0G	9	R1.00
Core 2 Duo E7400	3M	1066	2.8G	10.5	R1.00
Core 2 Duo E7200	3M	1066	2.53G	9.5	R1.00
Core 2 Quad Q6700	4M*2	1066	2.66G	10	R1.00
Pentium Dual-Core E5400	2M	800	2.7G	13.5	R1.00

* MCP7A support front side BUS 667/800/1066MHz.

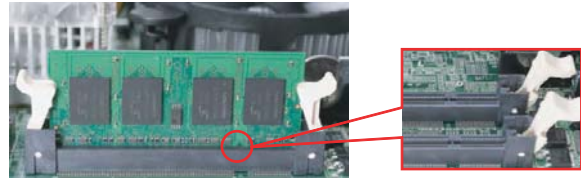
Note:

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.

2. Installing Memory Module

The motherboard provide SO-DIMM type memory support. There're two SO-DIMM memory slots which motherboard provided. The installation of memory module as below.

1. Put the memory module with correct direction. Notice there's one stick to make sure direction is correct.
2. Plug in memory module into SO-DIMM slot with vertical 90°. Make sure memory module plug into slot completely.
3. There're tabs which located in the side of SO-DIMM holder. Use finger to push memory module vertically until the tabs lock memory module tightly.
4. Now, the memory modules have been plugged properly with horizontal flat.



3. Enabling the NVIDIA Hybrid SLI Function

The NVIDIA Hybrid SLI technology provides multi-GPU benefits when an NVIDIA motherboard GPU is combined with an NVIDIA discrete GPU.

3.1 System Requirements :

- Hybrid SLI enabled motherboard and graphics card (Please refer to NVIDIA's website for a list.)
- At least 2GB of system memory
- OS : Windows Vista
- Hybrid SLI enabled on motherboard BIOS

3.2 Enabling Hybrid SLI :

3.2.1 Enter BIOS setup to set the below items :

- Set Hybrid SLI to [enable]
- Set Primary Graphics Adapter to [PCIe VGA Card First]
- Set iGPU Frame Buffer Size to [256MB or 512MB]

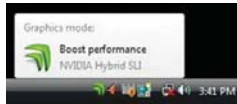
3.2.2 Driver installation:

Insert the MB Driver CD and select installing Chipset Drivers , Restart your system when completed. It's recommended that the Hybrid SLI-ready Graphics card be installed after the MB driver installation. Restart your system after installing the Graphics card , The MB will detect the Graphics card and enable Hybrid SLI auto.

3.3 The Hybrid SLI interface:

3.3.1 Hybrid SLI mode Confirmation:

Notice the small green chevrons on the system tray after the system restarts. When your mouse hovers on the icon to display the current mode of the system. (Boost Performance means the Hybrid SLI is enabled.)



3.3.2 Select a graphics mode :

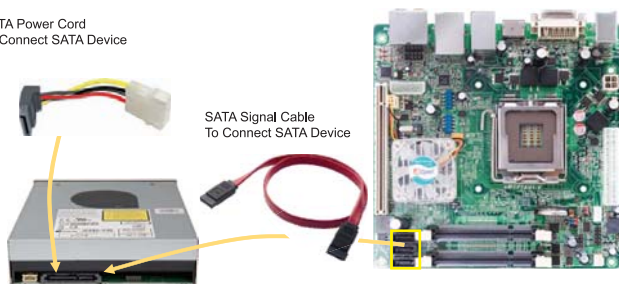
Click the Hybrid SLI icon to selection a graphics mode. Additional displays : If you want to disable Hybrid SLI. This makes MB GPU and graphics card operate independently to support multi displays.



4. Installing ODD Device

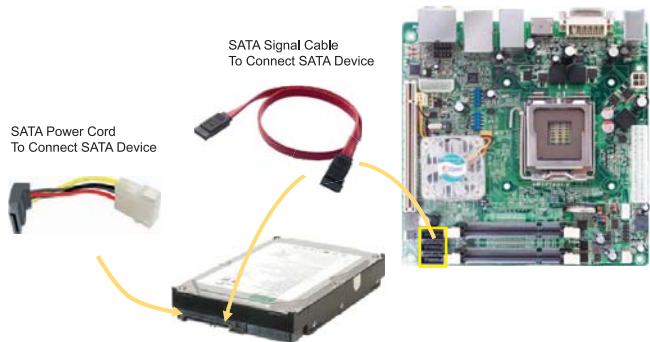
The motherboard provides three SATA connectors. Connect SATA cable to the on board SATA connector. You can find SATA cable in our package. (this is SATA signal cable) And please also connect 5V power connector with SATA power cable.

SATA Power Cord
To Connect SATA Device



5. Installing HDD Device

The motherboard provides three 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.

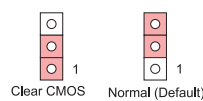


6. JP14 Clear CMOS

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

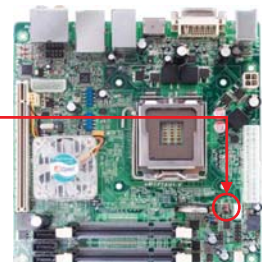
1. Turn off the system and unplug the AC power.
2. Remove ATX power cable from connector PWR24.
3. Locate JP14 and short pins 2-3 for a few seconds.
4. Return JP14 to its normal setting by shorting pin 1 & pin 2.
5. Connect ATX power cable back to connector PWR24.

JP14 Clear CMOS Jumper



Tip: When should I clear CMOS?

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

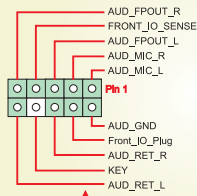


Connectors & PINs Definitions

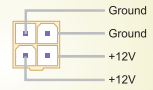


Note:

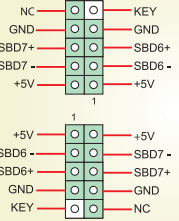
Connect to the system power supply. Please connect a hard disk power connect to PWR3 connector. The PWR3 power connector supplies power to the PCIe 16 slots.



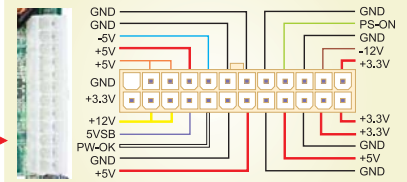
Front Audio Connector



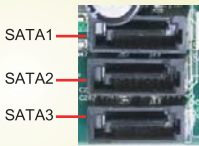
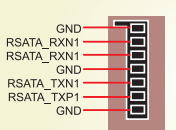
4-pin DC Power output Connector



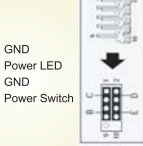
USB 2.0 Connector



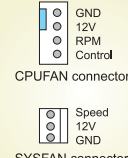
Power Connector



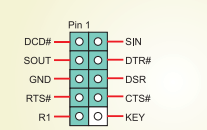
SATA II Connector



Front Panel Cable



CPUFAN / SYSFAN Connector



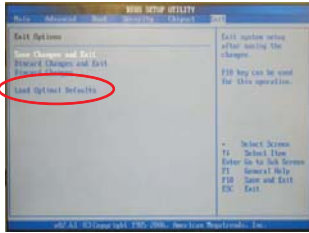
COM1 connector

Back Panel Connections



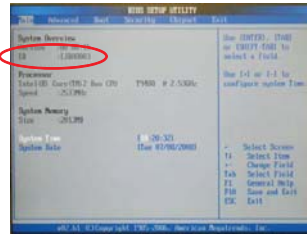
Power - on and Loading BIOS Setup

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.



BIOS Version

BIOS version can be found when you enter BIOS setting pattern. For example, 003 is BIOS version.



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.

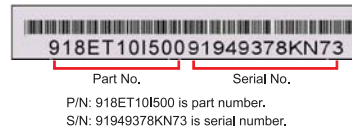
Aopen EzInstall and Bonus Pack CD

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.



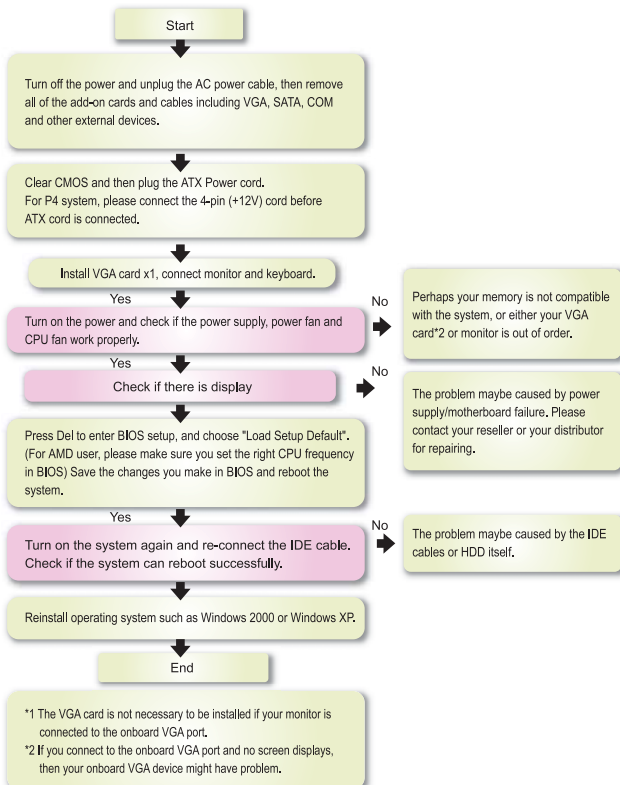
Register Your Motherboard

You can find this bar code label on the outside packing or on component side of PCB. For example:



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



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.
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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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