

Home Theater PC Chassis

Model: HTPC 100 BA & SA

Color: Black & Silver

Quick Installation Guide

(U.S. & Canada Only)
Version 1.0

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TECHNICAL SUPPORT

If a problem arises with your system and no solution can be obtained from this user guide, please contact your place of purchase or local dealer.

REVISION HISTORY

V 2.0 October, 2006

My Movies

My Music

My Pictures

My Videos

My Games

My TV

My Radio

My Web

My Media Center



Note:

This user guide is designed to provide the user a quick reference for chassis setup. We assume you need the information regarding how to assemble the system, such as Motherboard, CPU, RAM Memory, Hard Drive, DVD ROM, Operating System..., etc. Based on this assumption, we make this user guide of quick installation guide. Please follow the description step by step to assemble the components. If you have any question in assembling the system, you can contact your dealer or our technical support.

✦ Safety Warning

Turn down the CPU Cooler Fan Speed through the Front Controller may create vital damage to CPU. Adjust Fan Controller (CPU F.R.S.) appropriately according to the CPU instruction. (Minimum Fan Speed at 2000 is recommended)



“RESET” button is for LCD Module only
(CPU Fan Speed is default to minimum speed of 1800 to prevent CPU damage)

✦ Overview

Standard Components Equipped

- HTPC 100 Chassis
- nMEDIAPC MP-300 300W Micro ATX Power Supply
- 60mm Case Fan
- Air Duct (Constant fresh air to CPU and avoid hot air re-circulation)
- All-in-1 Card Reader (1 X USB onboard header required)
- Front Connectors (Onboard headers required)
 - USB 2.0
 - IEEE 1394
 - Audio Ports
- LCD Module
- Tight Cables & Screws
- Installation Guides

Other Components

- Micro ATX Motherboard (Intel ViiV or AMD Live ready is **recommended**)



- CPU / Cooler (nMEDIAPC ICETANK or ICECONE is **recommended**)



- Hard Drive (SATA is **recommended**)
- RAM Memory
- Optical Drive (DVD Burner is **recommended**)
- Operating System (Microsoft MCE 2005 or Vista with MCE is **recommended**)
- Mouse & Keyboard (MCE 2005 or Vista with MCE remote, wireless keyboard & Receiver is **recommended**)



For upgrades:

- Sound Card
- Video Graphic Card (Fanless model is **recommended**)
- TV Tuner Card (MCE certified is **recommended**)

✚ Installation Flowchart (Basic Procedures)

- Open Box → Read Installation Guide → Remove Top Cover → Remove Optical Drive Bracket → **Take Off Power Supply** → Install Motherboard → Perform a chassis quality check → Connect Cables → Install Hard Drive → Install CPU & Cooler → Install DIMM Memory Module → Re-Install Power Supply → Install Optical Drive → Connect Power Supply cables → Replace top cover

Installation Tools

- ✚ Screw Driver / Screws
- ✚ Tight Cables / Installation Guides

Tips:

1. After installing motherboard, perform a quality check on chassis parts before continuing. Connect the **power button** to board, plug the **PSU 20 or 24 pins** and **4 pins** cable temporarily, connect the **case fans power cord**, connect the **LCD PWR cord**. Turn on the system. At this point, you should be assure that the case and PSU are functioning well by checking if the fans running good, front LCD turning on. Now, unplug everything and follow the instruction to continue your build.
2. Due to the limited height of the compact case, taking off the air duct may be necessary if you use tall CPU heatsink, like NMEDIAPC ICETANK cooler.
3. If you are using the ICETANK or ICECONE CPU cooler, we recommend that you install the CPU and Cooler onto the motherboard before you slot it in the case. This will smooth the cooler installation with more space “outside” of the case.
4. Some DVD trays cover need to be removed in order to eject the tray smoothly without blocking by the DVD flip down door.
5. When installing the DVD drive, adjust the DVD drive appropriately until your case eject button can eject the tray smoothly, then mark down the position, and secure the DVD to the DVD rack with screws.
6. Remember that installing power supply should always the last step when installing components.
7. Do not perform cable management until your system is fully configured. This will make the cable management a better smooth procedure.
8. Do not install optional upgrade video card / TV tuner card / Sound card at once. Use everything on board (video & sound) to configure system and install operation system. After then, install the upgrades one by one and restart the system on every step to ensure component compatibility and save times of troubleshooting when issue arises.

✚ Installation

Step 1: Make more room to work on

1. Open the top cover
2. Remove the DVD bracket
3. Remove the Power Supply



Step 2: Connect cables

1. Install motherboard
2. Connect front panel / LCD cables
 - a) Connect Front USB 2.0, IEEE 1394 and Audio Connectors
 - b) Connect PWR Switch
 - c) Connect Card Reader internal USB cable
 - d) Connect LCD cables
 - e) See below table for more details



(Reference picture only)

Front USB 2.0, IEEE 1394 and Audio Connectors

See Motherboard User Manual for location and connection.

USB Port Color Codes:

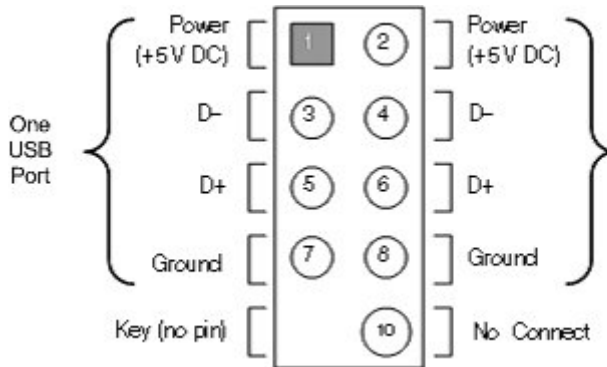
- Red = +5V
- White = Data- (-D)
- Green = Data+ (+D)
- Black = Ground (GND)

IEEE 1394 Color Codes

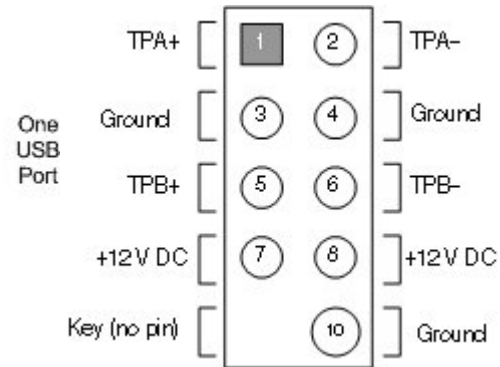
- Black -- Ground (GND)
- Red -- +5V
- Blue -- +TPB (TPB+)
- White -- -TPB (TPB-)
- Yellow -- +TPA (TPA+)
- Green -- -TPA (TPA-)

Audio Interface

- Pin 1 (MIC IN) Red
- Pin 2 (MIC GND) Black
- Pin 5 & 6 (SR)
- Pin 7 (Empty) White
- Pin 8 & 9 (SL)



USB Diagram



IEEE 1394 Diagram

Front Audio (AC 97) connection Tips:


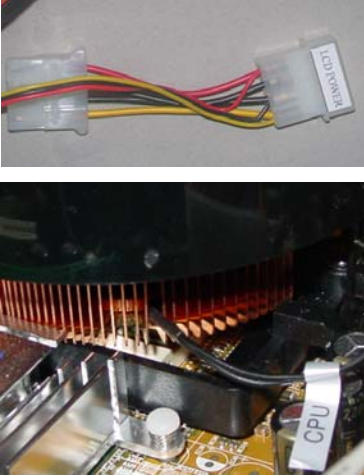

First, find the MIC and GND pin, connect the MIC & GND connector fist, then, the SR connector must on the Pin 5 & 6, face the same label direction of the MIC & GND connector, plug the SR in, same to the SL on Pin 8 & 9. Plug the white NC single pin connector to Pin 7.

Note: There is no HD Audio connector from this model yet.

Connect the Power Button “PWR” cable to the motherboard front panel jumper

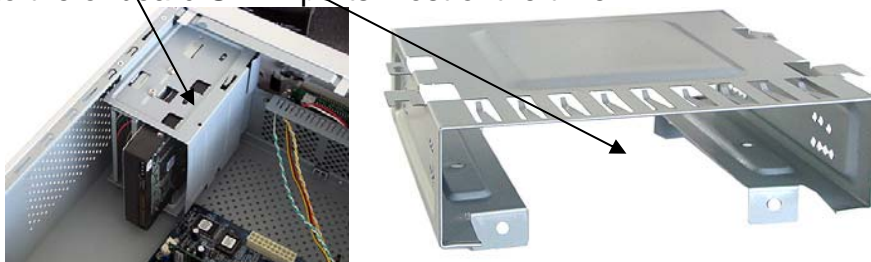
See Motherboard User Manual for location and connection. And see above referenced picture.



<p>Connect Card Reader USB cable</p> <p>See <i>Motherboard User Manual</i> for onboard USB port location and connection. And see above referenced picture.</p>	
<p>Connect LCD Cables (Some of these steps follow after CPU & Cooler installation)</p> <ol style="list-style-type: none"> 1. Place the case heat sensor anywhere that you want 2. Use the orange tape in the accessory bag to tape the CPU heat sensor to the CPU heatsink 3. Connect the CPU heatsink fan to the LCD “CPU Fan” adapter, if your motherboard has the auto fan speed control function (base on CPU temp); plug the extension cord to the motherboard fan connector. In this case, the LCD will only display fan speed, no fan speed control will be available via the front knob. 4. Connect the “PWR” LCD power cord to the power supply like connecting the case fan 	 <p><<Periodically check sensor head placement is recommended to ensure accurate CPU Temperature Reading>></p>
<p>LCD Replacement</p> <p>If you wish to replace the hard coded LCD with programmable LCD, please check our website for more details:</p> <p>http://www.nmediapc.com/support_LCD.htm</p>	

Step 3: Install Hard Drive

1. There are two 3.5” bays available for this model besides the third one which occupied by the card reader. One next to the card reader and one under the optical drive rack.
2. SATA hard drive is preferred to place under the optical drive since the cable is closer to the onboard SATA ports most of the time.



Step 4: Install CPU and Cooler

Follow your motherboard user manual to avoid damages



Step 5: Install memory module



Step 6: Install the power supply

1. Install the power supply
2. Connect power cables
 - a) to hard drive
 - b) to motherboard 20/24 pin main
 - c) to motherboard 4 pin +12V
 - d) to LCD PWR
 - e) to optical drive

Step 7: Install the optical drive



(Reference picture only)

✦ LCD Module Set Up

LCD will display the CPU & Case Temp. reading / CPU Cooler Fan Speed reading



Alarm Features

CPU Alarm Temperature

When CPU temperature hits 65°C or 149F, the temperature reading will flash constantly until the temperature drops below the alarm degree.

CPU Fan Alarm

When the fan stops running for whatever reason during working mode, the CPU fan speed reading will flash constantly in "0000" until the fan is re-spinning again.

LCD Set Up

1. Press the **"SET"** button once to set the CPU alarm degree. The CPU temp reading will flash; use the **"C/F UP"** button to adjust the alarm degree.
2. Press the **"SET"** button twice to set the Case alarm degree. The Case temp reading will flash; use the **"C/F UP"** button to adjust the alarm degree.
3. Press the **"RESET"** to reset the LCD module and turn all alarm default degree to 65°C or 149F.
4. Press the **"C/F UP"** button to switch the degree reading between °C and F.
5. Use the Fan Speed Controller to manually adjust the fan speed, adjustment range is from 70% -100% of the fan's full speed.



"RESET" button is for LCD Module only
(Fan Speed defaults to minimum of 70% of full speed to prevent CPU damage)

Other Component Installation

For other components, including hard drive; RAM; CPU & cooler; optical drive and operating system etc., plan the installation steps carefully, and follow the user manual and motherboard manual instruction to avoid damages.

✦ **References**

Technical Support

NMEDIA SYSTEM, INC

support@nmediapc.com

<http://www.nmediapc.com/support.htm>

✦ **Safety Instructions**

Always read the step by step installation to protect your components

Keep the user guide for future reference

Keep away from humidity, liquid and temperature above 60c (140 f) environment

Make sure the voltage of the power supply and adjust properly 110/230V

Always unplug the power cord before inserting any add-on devices

Get the system checked by service personnel if below happens:

- The power cable is damage
- Liquid has penetrated into the system
- Dropped and damaged

✦ **RMA Return Policy**

- All accessories and cables must be returned as they were shipped
- Carefully re-packaging is needed to avoid shipping damages
- All warranties are subject to properly uses. Any human power damages return may be rejected according to warranty terms and conditions