HOME THEATER PC CHASSIS

Model: HTPC 200 BA & SA

Color: Black & Silver

Quick Installation Guide

(U.S. & Canada Only)
Version 1.0

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.

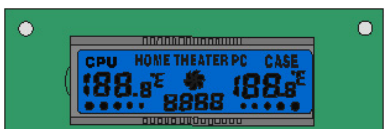
REVISION HISTORY

V 1.0 **August, 2005**

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 install the components. If you have any question in assembling the system, please refer your questions to the appropriate Technical Support of the component vendors.

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 200 chassis
- 2 x 60mm silent case fan; 1 x 80mm silent HDD fan
- Air duct - Constant fresh air to CPU and avoid hot air re-circulation
- All-in-one card reader - onboard USB port required
- Audio/Video capture module & extension cable - TV tuner capture card required
  - S-Video x 1 | Composite RCA Jacks: Video x 1 Audios x 2
- S/PDIF output jack – onboard S/PDIF output port required
- Microsoft MCE receiver internal USB converter cable
- Microsoft MCE compatible TV tuner AV internal capture cable
- Microsoft MCE IR receive **rack** - receiver not included
- Front connectors - onboard connectors required
  - USB 2.0 x 2; IEEE 1394 x 1; Audio Ports x 2
- LCD module & Temp. sensor stickers
- Tight cables, screws, installation guide

Other Components

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



- Full ATX power supply (nMEDIAPC Mute Power **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 guides → Remove top cover → Remove optical drive bracket → Install motherboard → Perform a quality check → Connect cables → Install internal IR receivers (if required) → Install hard drive → Install CPU & Cooler → Install DIMM memory module → Install power supply → Install optical drive → Replace cover

Installation Tools

Screw driver / Screws / Tight cables / Installation guides

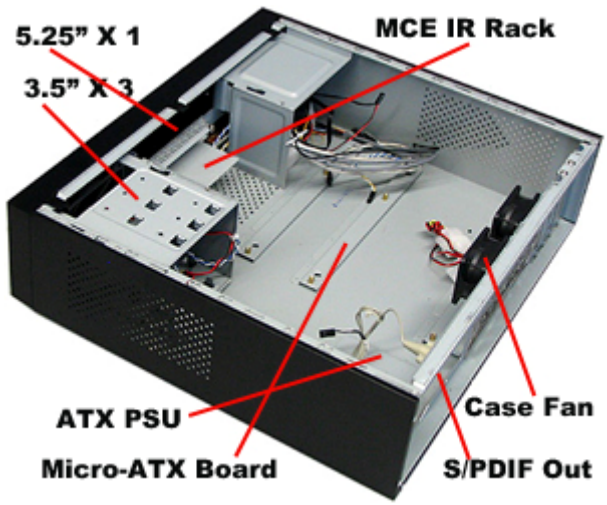
Tips:

1. After installing motherboard, perform a quality check on chassis parts before continuing. Connect the ***power button*** to board, plug your ***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. If you are planning to convert the MCE external receiver or adding VFD module as an upgrade, do it before motherboard installation, otherwise, you may need to un-install everything in order to slot in the MCE receiver PCB board on the IR Rack.
7. Remember that installing power supply should always the last step when installing components.
8. Do not perform cable management until your system is fully configured. This will make the cable management a better smooth procedure.
9. 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



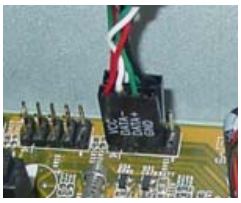
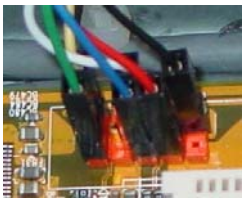
Step 2: Connect cables

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 RESET Switch
   d) Connect Card Reader internal USB cable
   e) Connect LCD cables

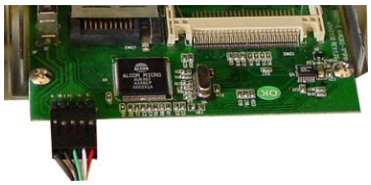
See below table for more details

Connectors

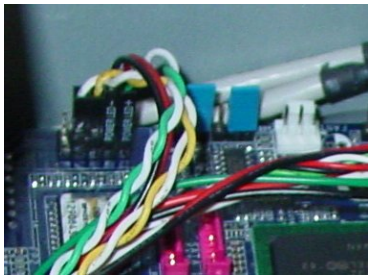
Step 1: Connect Front USB 2.0, IEEE 1394 and Audio Connectors
See motherboard user manual for location and connection.

USB Port Color Codes:	**IEEE 1394 Color Codes**	**Audio Interface**
Red = +5V	Black -- Ground (GND)	Pin 1 (MIC IN) Red
White = Data- (-D)	Red -- +5V	Pin 2 (MIC GND) Black
Green = Data+ (+D)	Blue -- +TPB (TPB+)	Pin 5 & 6 (SR)
Black = Ground (GND)	White -- -TPB (TPB-)	Pin 7 (Empty) White
	Yellow -- +TPA (TPA+)	Pin 8 & 9 (SL)
	Green -- -TPA (TPA-)	(AC97 Codec Header)



Connect USB Card Reader

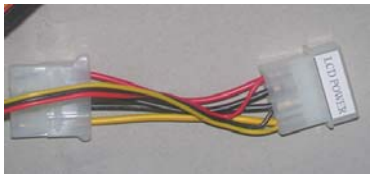
Connect the card reader USB connector to the onboard USB port. See motherboard user manual for location and connection.
USB Port Color Codes:
Red = +5V
White = Data- (-D)
Green = Data+ (+D)
Black = Ground (GND)



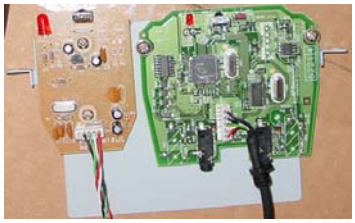
Connect front Power/Reset switch connectors and Power Button LED light power cord

PWR SW / RESET SW

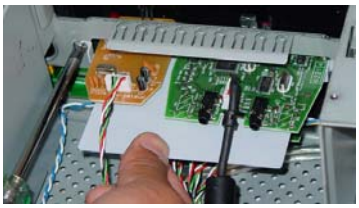
See motherboard user guide for connection



Connect LCD PWR connector
Connect it directly to the Power Supply 12V connector. Like connecting the case fan.
The power connector will serve:
- o LCD Module
- o Power Button LED light
- o 80mm HDD Cooling fan



Make sure no metal touching to avoid shortage

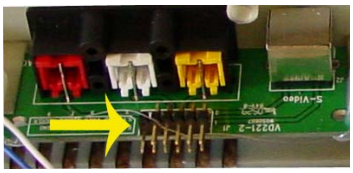


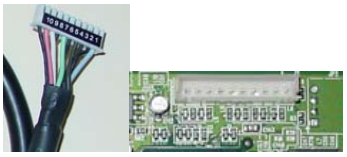
Install Internal MCE Receiver

User can convert the external MCE receiver dongle internally by installing the receiver PCB on the MCE Receiver IR Rack that comes with the case. (Right below the optical drive rack)

- Unscrew the 2 thumb screws and take out the IR receiver rack
- Take out the MCE external receiver plastic enclosure by removing the two front rubber legs
- Carefully install the MCE receiver module to the rack (***check rack to ensure no metal touching to avoid circuit shortage***)
- Secure the MCE receiver rack back to the case, make sure the IR sensor head is facing accurately behind the plastic window
- Connect the receiver via the equipped USB converter cable to the onboard USB port
- Route the MCE IR Blaster sensor heads to the back of the case via the S/PDIF PCI slot hole and stick them to the TV set top box's IR point.

- Two screws are provided for securing IR PCB board.

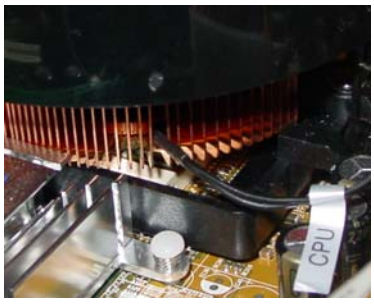




Install AV Capture Module

- Use the thick extension cable to connect the 10 pins header of the A/V capture module (label face-up)
- Route the extension cable to the back of the case via the S/PDIF PCI slot hole
- Secure the cable with the cable lock
- Connect the Audio/Video headers to the TV tuner capture card accordingly

If you are using a MCE compatible TV tuner card that comes with an onboard 10 pin capture port (white connector), use the equipped AV internal capture cable to connect the front AV capturing module to the onboard connector directly.



LCD CPU & Case Heat Sensors

Use sensor (orange) sticker to tape CPU heat sensor around the heatsink area for displaying CPU Temp on the LCD. Place the case sensor to anywhere that you want to track case temp.

<<Periodically check sensor head placement is recommended to ensure accurate CPU Temperature Reading>>

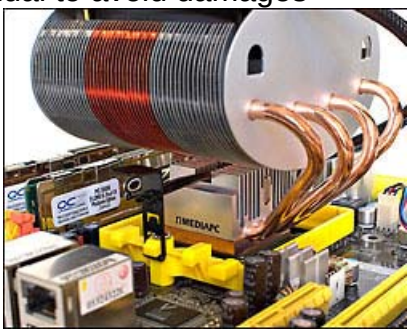
 "C/F SW" enables you to set temp display reading format when installing the system. (one time only) Push down-Fahrenheit" / up-Celsius 	**CPU Fan Controller Connector** Connect the CPU Cooler Fan to the CPU FAN front controller connector so that CPU Fan Speed can be controlled upfront. (**Minimum fan speed at 2000 is recommended**) If your motherboard has the Auto Fan Speed Control capability, simply connect the 4 pins extension fan connector from the LCD CPU Fan to the motherboard fan header. Make sure you read the board fan pin diagram and connect to avoid board damage. In such connection, motherboard will take control priority and LCD will only display fan speed. No front fan speed control allowed.
	**LCD Replacement** If you wish to replace the hard coded LCD with programmable LCD, please check our website for more details: http://www.nmediapc.com/support_LCD.htm
	**Organize the cables with provided tied cables.** See picture for reference.

Step 3: Install Hard Drive

1. There are three 3.5" bays available for this model. SATA hard drive is preferred.

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 motherbaord 20/24 pin main
    c) to motherborad 4 pin +12V

d) to LCD PWR
e) to optical drive

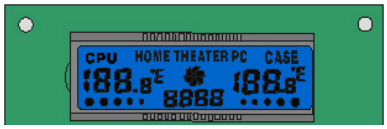
Step 7: Install the optical drive

Other Component Installation

For other components, including hard drive; RAM; CPU & cooler; optical drive, video card, sound card, TV tuner card and operating system etc., plan the installation steps carefully, and follow the user manual and motherboard manual instruction to avoid damages. Always install the power supply at last to make more space during the installation process.

LCD Module

LCD displays CPU Temperature, Case Temperature and CPU Fan Speed. It also has the heat alarm functions.



RESET | SET | UP

Set up the LCD Module

- Select (one time only) your “Fahrenheit” or “Celsius” degree reading by pushing the “**C/F SW**” switch behind the LCD. The push down position displays at F and push up will change the reading to C.
- When pressing the “RESET”, LCD will change to default setting. CPU defaulted fan speed is automatically controlled by LCD base on CPU temperature. See below chart for details.
- When pressing the “SET”, then “UP”, user can adjust the “Alarm” degree for CPU and Case as need. Press once to set the CPU, press twice to set the Case.
- When pressing the “UP”, user can overwrite the CPU fan speed manually. CPU fan speed resume to default when pressing “RESET” or system being restarted.

CPU Temp→	0-86 F	86 F & up	104 F & up	122 F & up
CPU Fan Spin Speed	S0 - 70% of full speed	S1 - 80% of full speed	S2 - 90% of full speed	S3 - 100% full speed
	Temp. Setting		**Temp. Setting**	**Alarm Effect**
CPU Alarm Default	140 F	**Case Alarm Default**	140 F	Temp. flashes

<< --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. LCD Auto Fan Speed Control function defaults at minimum of 70% of full speed to prevent CPU damage

LCD Alarm Features

CPU & Case Alarm Temperature
When CPU or Case temperature hits 60ºC or 140F, the temperature reading will flash constantly until the temperature drops below the alarm degree. Increase the CPU fan speed manually to lower the temp. Or check system set up to fact-find the overheat condition.

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. Check or change the CPU cooler fan condition.

S/PDIF Output Connection

It is a standard S/PDIF output jack. Connect the header to the onboard S/PDIF output port, and connect the jack to your receiver via a coaxial digital cable. (remember to change your Audio setting to pure digital output) See below color codes when connecting the cable to the board:

- White – “Data” or “S/PDIF out”
- Black - Ground

Reference

Chassis Support

NMEDIA SYSTEM, INC
support@nmediapc.com
http://www.nmediapc.com

Safety Instructions

Always read the step by step installation instruction 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