

**PERFECT
HOMETHEATER**

2014

USER MANUAL

FLM-7
FLM-8

Thank you for your purchasing of our product.
If you have any questions that are not covered in this manual, please contact us by phone or e-mail at Sales@PerfectHomeTheater.com.



Specification

Chassis Material: Full aluminum,

Colors: Silver / Black

Motherboard Support : Mini-ITX

Hard Drive Bays: 1 x 2.5" + 1 x 3.5" or 2.5" (shared bay)

Optical Drive Bays: 1 x Slim slot loading drive, universal eject button (with FLM-8 only)

Ports: 2 x USB2.0, Front side (USB3.0 Ready, cable sold separately)

Expansion Slot: 1 x half height expansion slot

Cooling: Fanless

Dimension: 240 x 250 x 100mm (W x D x H)

Power Supply: 150 --180W PSU plus AC/DC Adapter (not included)

Remote Control: MCE compatible IR receiver & remote (not included)

Net Weight: 2.4KG

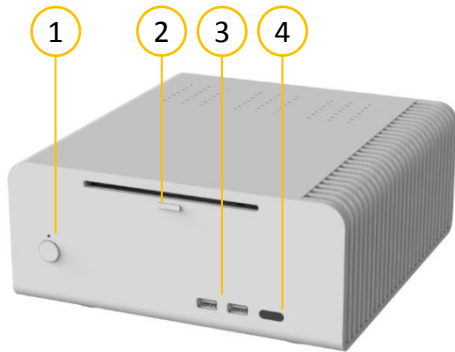


FLS-7

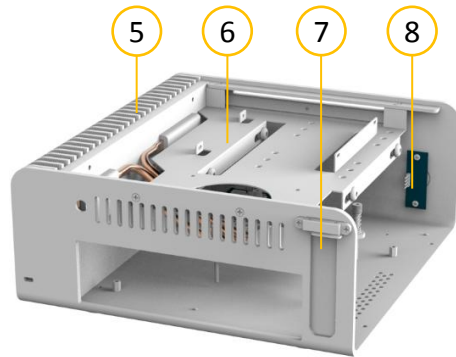


FLS-8

Overview



- 1 Power Button & LED
- 2 ODD Eject Button (FLM-8)
- 3 USB Ports 2.0 & 3.0 on the side
- 4 IR Receiver Window



- 5 Heat Sinks
- 6 HDD/ODD tray
- 7 PCI Expansion Slot
- 8 Power Button PCB

Removing top panel.

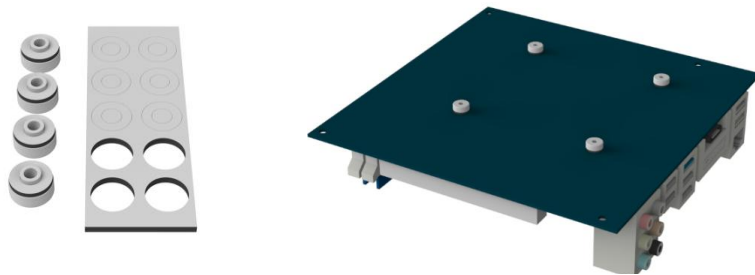
Attention:

Our chassis are built with very small gaps between front, top and back, so please be careful when removing and reinstalling top panel. To avoid scratches, please loose two screws in the back and three screws in the bottom.

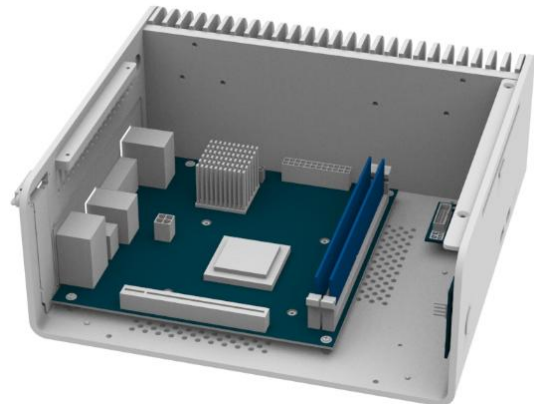


Motherboard installation

Before installing motherboard into chassis please stick four CPU cooler mounting nuts on the bottom of Motherboard. Next install CPU and memory on Mobo, install backplate and motherboard inside of chassis.



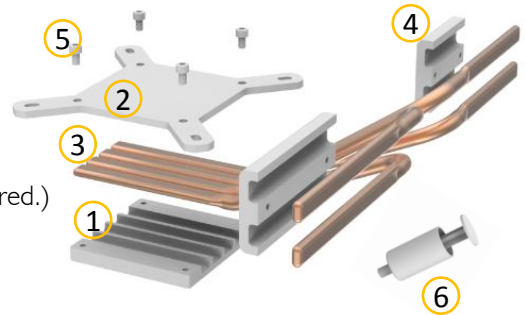
Next install CPU and memory on the Mobo, install backplate and motherboard inside of chassis.



Cooling system

These are the following parts of cooling system:

1. Lower CPU plate
2. Upper CPU plate (Intel or AMD)
3. Standard or short Heat Pipes (Attention: heat pipes are numbered.)
4. Heatsink blocks with thread.
5. Four screws for Cooling system (M3x10)
6. Thermal paste. (Supplied)



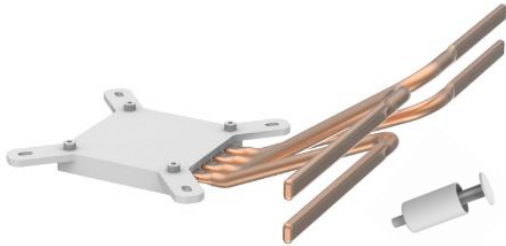
Mini ITX motherboard.



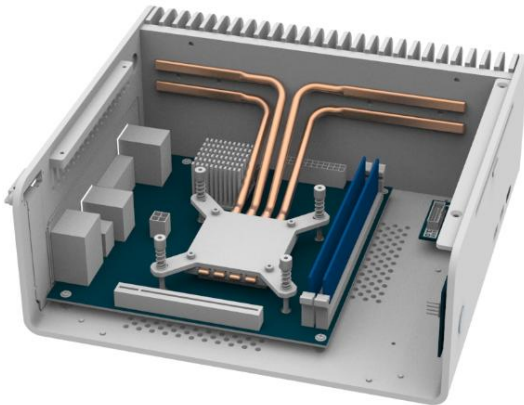
Most recent ITX motherboards have CPU socket close to right side of motherboard like ASRock motherboard used in this manual. Such motherboards require short cooling pipes; HP4-97, sold separately. Standard pipes are too long for this motherboard. They will extend ~17mm. There is no problem with this particular motherboard, but other models may have tall object on line of pipes and conflict with them. If your current motherboard require short pipes, please add them to your order. Please keep your standard pipes for future motherboards with CPU in different location.

DO NOT TIGHTEN ANY SCREWS UNTIL INSTALLATION IS FINISHED.

First assembly cooling system without paste, to find out the best position for pipes but do not tighten screws yet. Next put it on CPU align with CPU and move pipes toward or away from radiator if necessary.

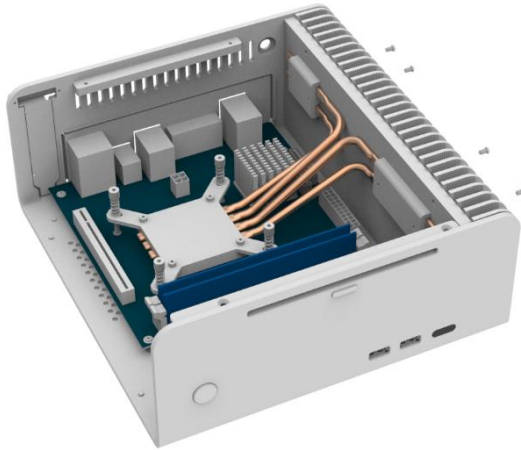


After setting position of pipes between plates, remove upper plate, apply small amount of thermal paste in grooves on lower plate, set pipes, apply small amount of thermal paste on top of pipes and put upper plate back. Now, even you have to move pipes a little you will have clean assembly.



Apply small amount of thermal paste on CPU and put lower plate on CPU. Apply thermal paste on both sides of thermal pipes (3) and install pipes 1 and 2 first. Do not tighten any screws yet. Than install pipes 3 and 4. Do not tighten any screws.

Then put another two screws and set up assembly over CPU perfectly.



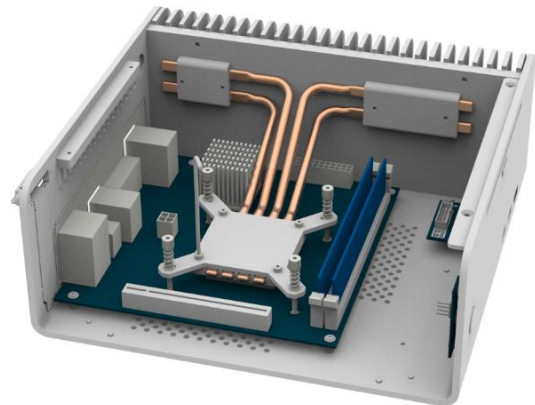
Now you can tighten screws.

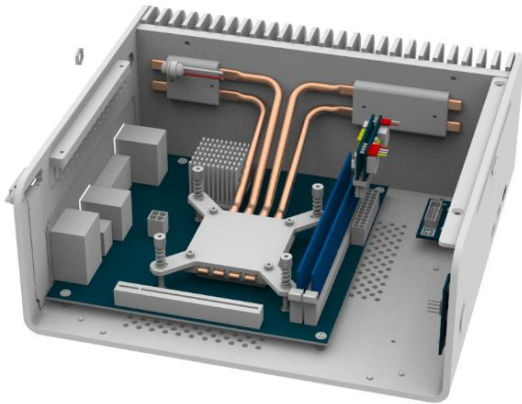
First, Four screws in heatsink blocks. Pipes still can move toward heatsink.

Next, use supplied wrench and tighten screws keeping both plates together. Do not over tighten screws!

At last, hand tighten long screws and you just finished installation of cooling system for your CPU.

Now, when everything is on place, perfectly arranged, tighten long screws first. Use fingers only do not use wrench.

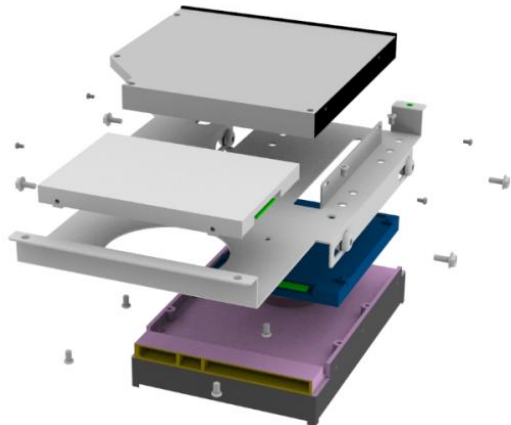




Now it's time to connect PSU and cables

Installing HDDs and ODD.

ODD/HDD bracket is hold in place by four screws. Please remove screws and remove ODD/HDD bracket.



Now you can install drives on the bracket.

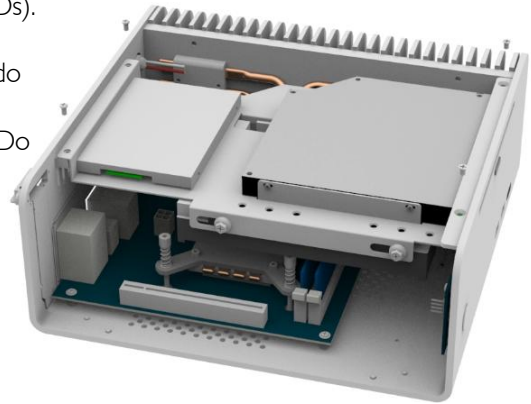
First 2.5" HDD on the bottom. (If you install two 2.5" HDDs).

Next install SSD and ODD on the top.

If you didn't install 2.5" HD and want to install 3.5" HD, do it now.

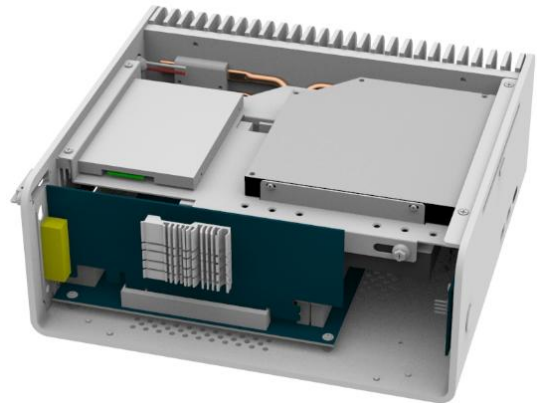
Put HD between rubber dampers and use HD screws. Do not overtight.

All drivers on the bracket.














Installing PCI Card .

This chassis allows you to install one low power extension card.



Is everything OK? Install top cover and enjoy it.

| Picture (Not in scale) | Description/Type | Quantity | Application |
|--|----------------------|----------|--|
|  | M2x3 | 4 | It should be Slim ODD drive (FLM-8 only) |
|  | M3x4 | 2 | IR |
|  | M3x4 | 9 | Motherboard |
|  | M3x5 | 16 | 2.5" HDD |
| | 6-32x6 | 12 | 3.5" HDD |
|  | M3x10 | 4 | Heat sink blocks |
|  | M3x10 | 4 | Heat sink plates |
|  | CPU retention screws | 4 | Heat sink mounting screws |
|  | Mounting nuts | 4 | Heat sink mounting nuts |
|  | Nuts shock pad | 1 | Nuts shock pad |
|  | Rubber pads | 1 | ODD |
|  | Heatsink pipes | 4 | Heatsink system |

Perfect Home Theater 163 America Blvd Ashland,
MA 01721-1869
www.shop.perfecthometheater.com



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