



2nd Gen H5 Fanless HTPC Chassis Installation Guide V 2.0

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Package Contents

H5 Chassis Body

Top Plate	Bottom Plate
Left Side Panel	Right Side Panel
Back Plate*2 (Dual Slot and Low Profile)	Four Feet with Rubber Cushion

H5 Chassis Faceplate

Faceplate (Silver or Black)

H5 Heatsink System

Aluminum Top Plate	Heatpipe Installation Plate (H-9) x4
Copper Baseplate	High Quality Thermal Paste 3.5g
Eight 6mm OD Copper Heatpipes	Dumbbell Tool to apply thermal paste
Installation Screw Kit	Intel CPU Bottom Plate

H5 Accessories

Multipurpose HDD Rack x 2	ATX/SFX/FlexPower Supply Rack x 1
Internal USB 3.1 Type C Cable x1	Internal AC Extension Cord x 1
HEX Screw Driver and Allen Wrench	DC Socket Adapter Plate x 1
AC Socket Adapter Plate x 1	PCI Cover Bracket x 4 (Low Profile x 1)
Installation Screw Kit	Cable Organizer
Aluminum Power Button w/Cable x 1	Front Handle x 2

Installation Screw List:



A: M3*6mm Round Head Screw with Cushion 20pcs for motherboard/AC adapter plate/PCI bracket installation

B: Hex Socket Cap Head Screws M5*8mm 8pcs For Front and Black Plate Installation; M5*12mm 4pcs for Faceplate Front Mounting; M4*14mm 4pcs for Optional Front Handle Installation.



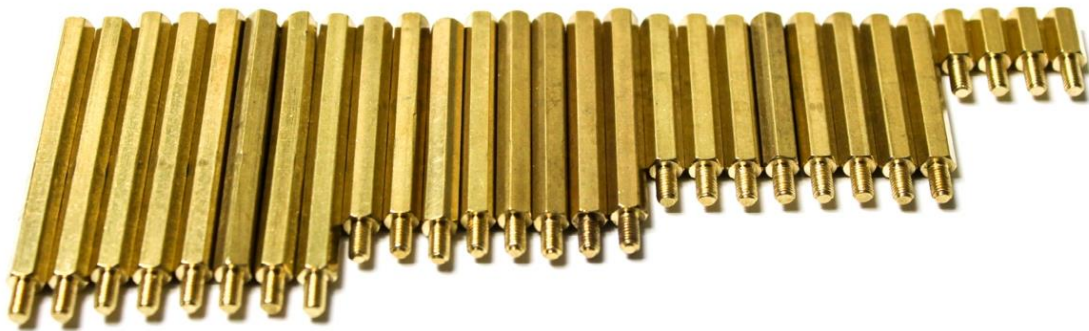
C: M4*6 Flat Head HEX Screw-Black 18pcs For Feet/Top Plate/Bottom Plate/Side Panel/Back Panel Installation

D: M3*5 Flat Head Screw -Black 18pcs For SSD mounting/AC IEC installation



E: 7mm Hexagonal Copper Stud for Motherboard Installation 12pcs

F: 6-32 Thread 6mm Screw- Silver 8pcs For 3.5" HDD Installation



G: Hexagonal Copper Stud for HDD Rack: 10mm-4pcs 30mm-8pcs 50mm-8pcs



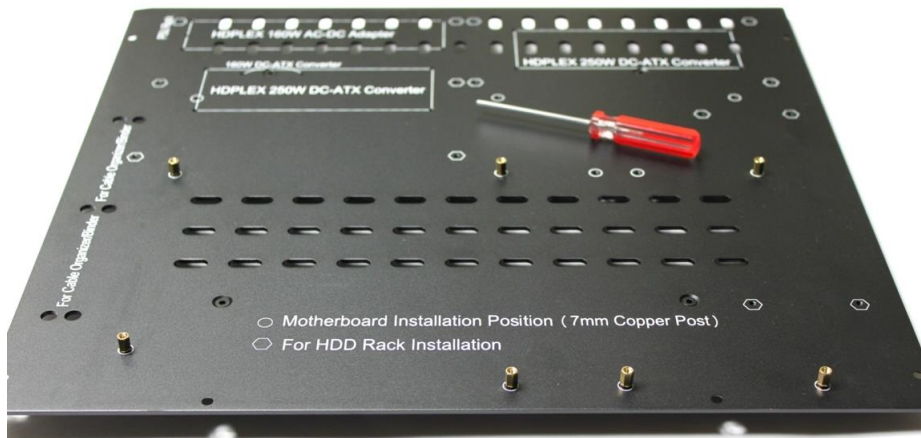
J: M3 Self-Tightening Nut-Silver 20pcs **K:** M3 Round Head 8mm Screw 8pcs

H5 Chassis Bottom Plate Installation

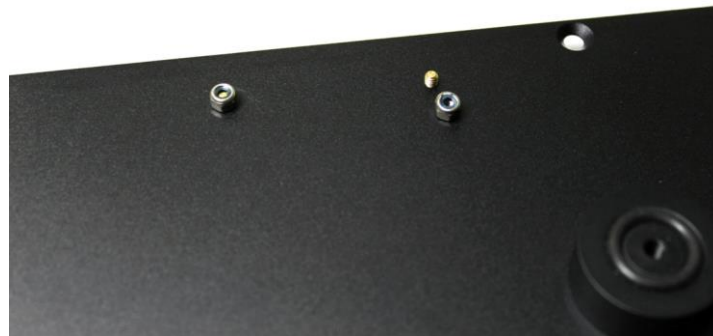
Install four feet with rubber cushion to the bottom plate back side using 4pcs **C**



Install Hexagonal Copper Stud 7mm **E** to the bottom plate, matching your motherboard installation position



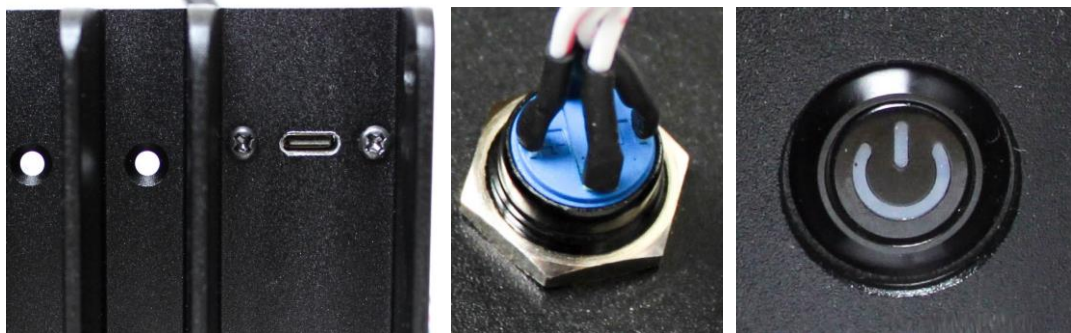
Install **J** to the back side of the H5 bottom plate, lock the copper stud M3 exposed thread.



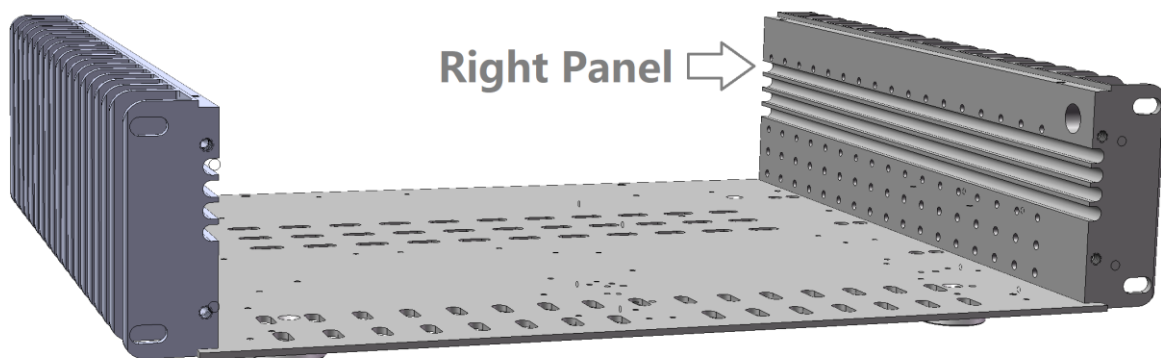
Install the aluminum power button on the right panel using lock ring from the

internal side. Both PWR and PWR LED plug do not have polarity. PWR LED will light up in blue color once PC is turned on.

Use two M3*8mm screw **K** to install the USB 3.1 Type C cable. Please make sure the USB 3.1 Type C port is fully inserted and is even with external surface.



Install right heatsink panel onto the H5 bottom plate using 2pcs **C**. When installed correctly, the mounting ear should face forward with power button above the heatpipe groove.



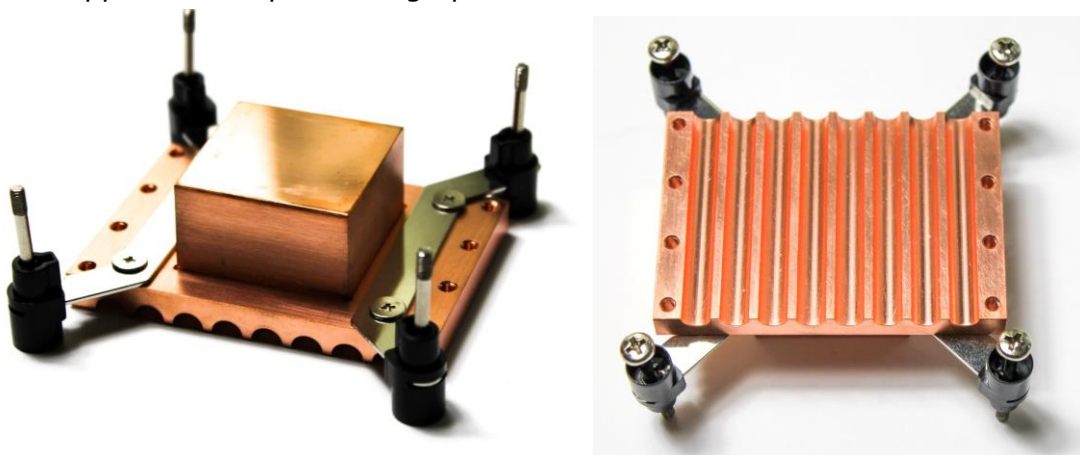
H5 CPU Heatsink System Installation

CPU Heatsink Installation Kit List:

- H-1: M3*4mm Flat Head Silver 8pcs
- H-2: M3*10mm CUP Head HEX Screw Silver 8pcs
- H-3: M 3*35mm Round Head Screw Silver 4pcs
- H-4: M3*14mm Flat Head Screw Black 16pcs
- H-5: Intel and AMD CPU Bottom Rack 4pcs
- H-6: Intel CPU LGA115x Bottom Rack 1pcs
- H-7: Bottom Holder and Double Tape 4pcs
- H-8: Plastic Screw Holder Black 4pcs
- H-9: Aluminum Plate for Heatpipe Installation 4pcs



Remove protection cover from the copper base plate and install two **H-5** rack on the copper bottom plate using 4pcs **H-1**

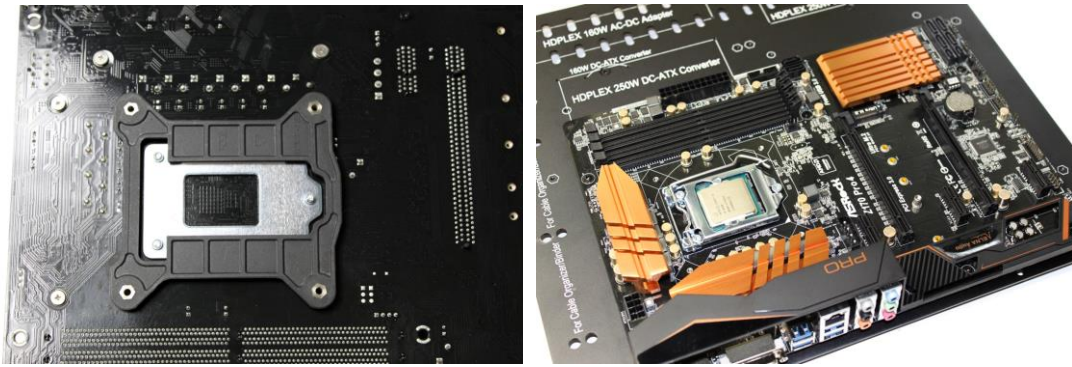


Install the **H-8** holder on to the tip of the two racks. Please make sure the direction of part H-8 is correct. Install 4pcs **H-3** into the **H-8** holder.

Apply a thin layer of thermal paste to the copper base plate.

Warning: Do not over apply thermal paste as it will decrease heat transfer efficiency.

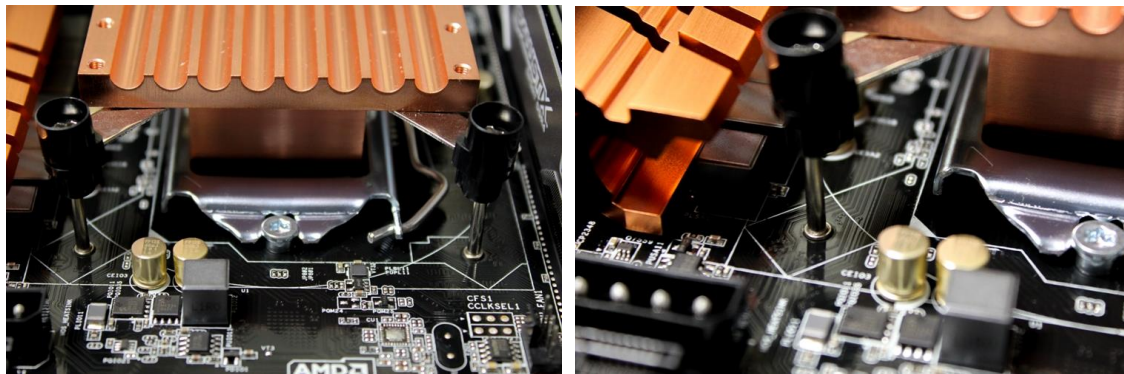
Put the Intel CPU Bottom Rack **H-6** on the back side of the motherboard Intel CPU socket (LGA1151/1155/1150) or use 4pcs white double tape to paste the four bottom holder **H-7** to the back of the AMD socket.



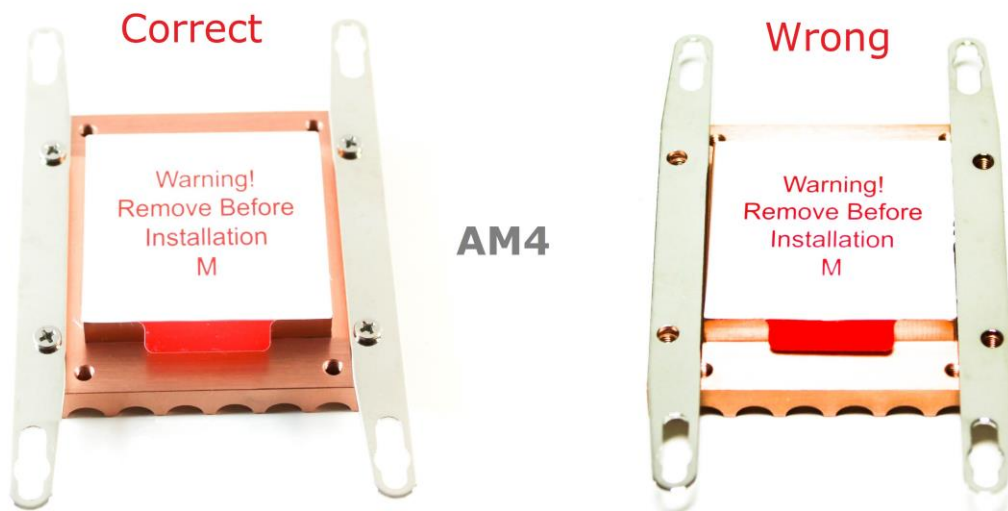
Install the motherboard on the H5 bottom plate hexagonal copper stud using **A**

Install the copper base with rack onto the motherboard. Please make sure heatpipe slot direction is vertical to the side panel.

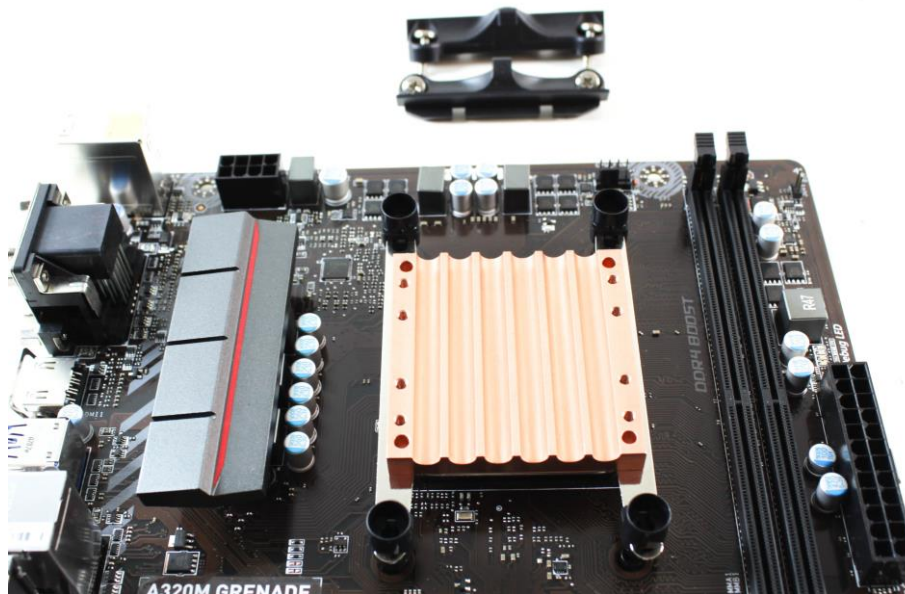
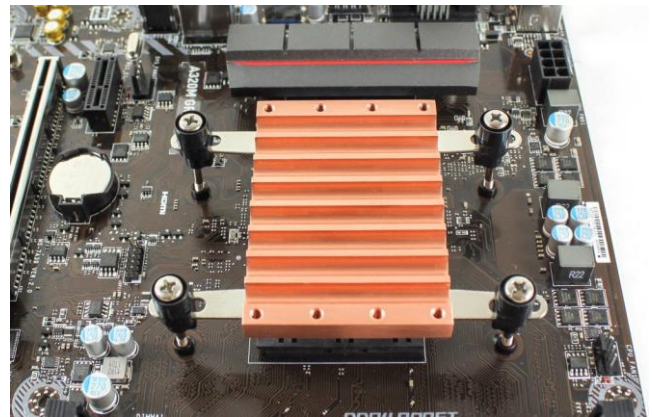
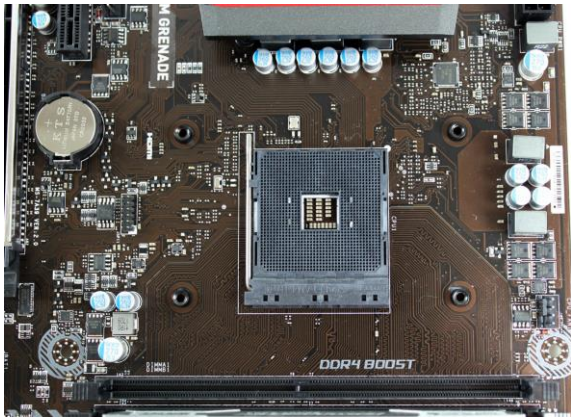
Tighten the four **H-3** screws in even fashion. Do NOT over tighten the H-3 screw or apply too much torque. Avoid put too much pressure on the CPU top plate.



For the latest AM4 Ryzen socket, see below for correct rack installation position.



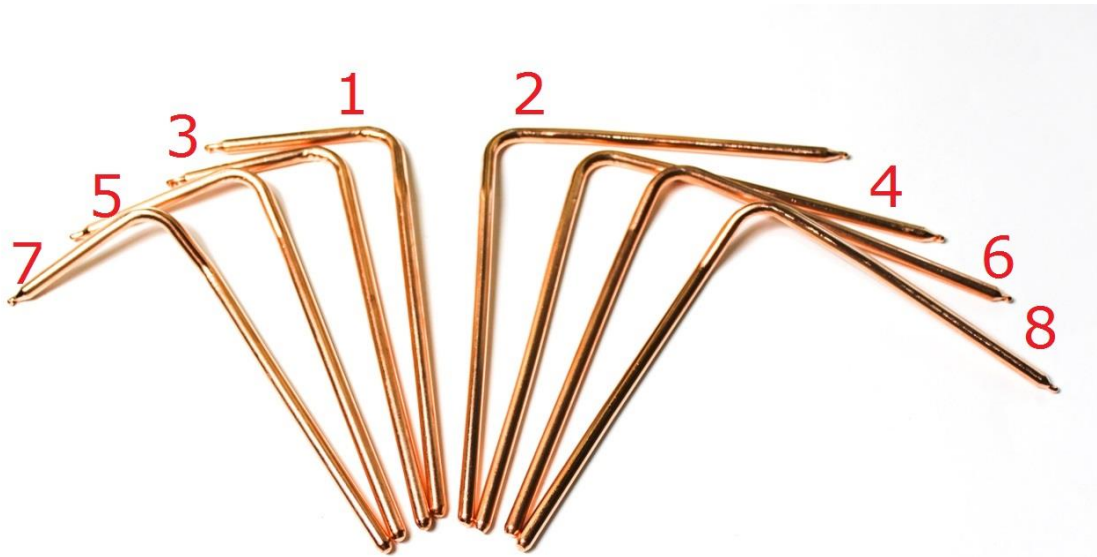
Remove motherboard AMD socket mounting rack, keep the bottom plate on the back of the motherboard. Install the copper heatsink block using 4 H-3



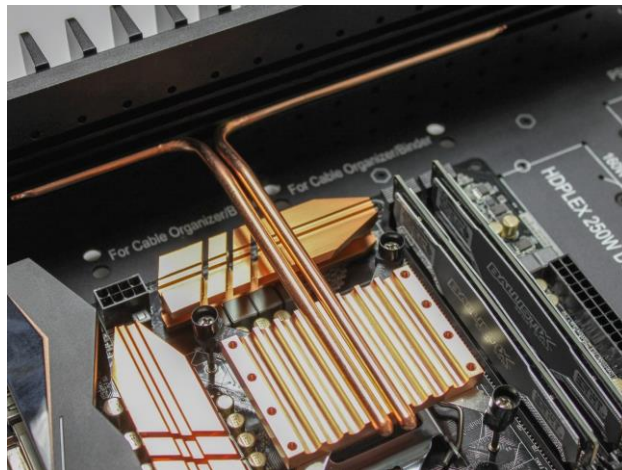
Apply thermal paste to the heatpipe groove on both side panels using the dumbbell shaped tool. Apply a thin layer of thermal paste to the copper plate groove using the dumbbell tool.

Warning: Do not over apply thermal paste as it will decrease heat transfer efficiency.

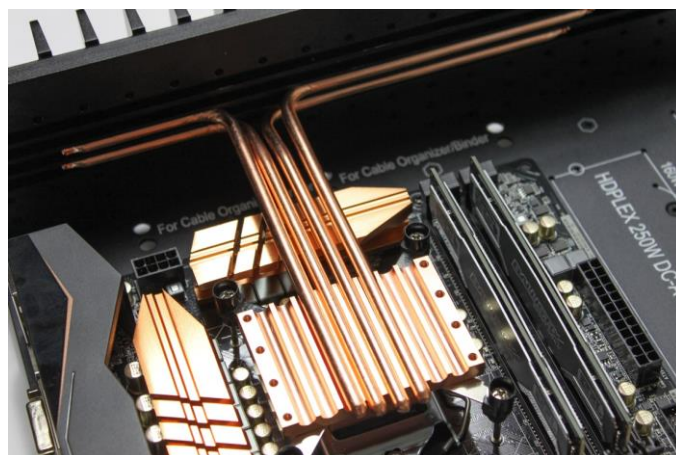




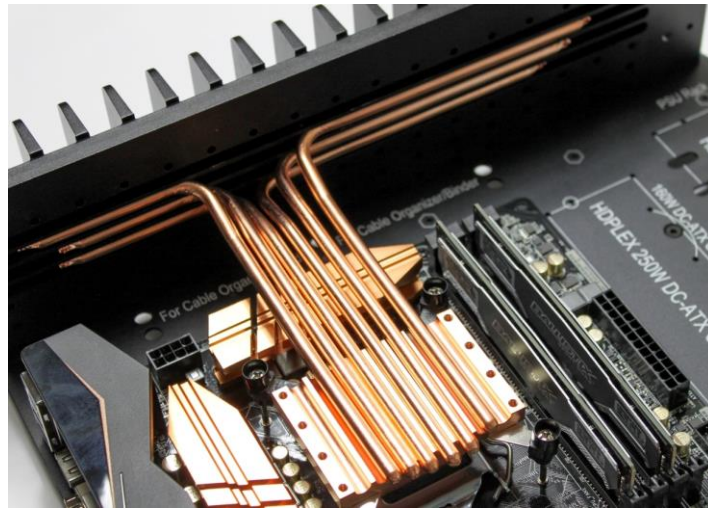
Install heatpipe 1 and 2.



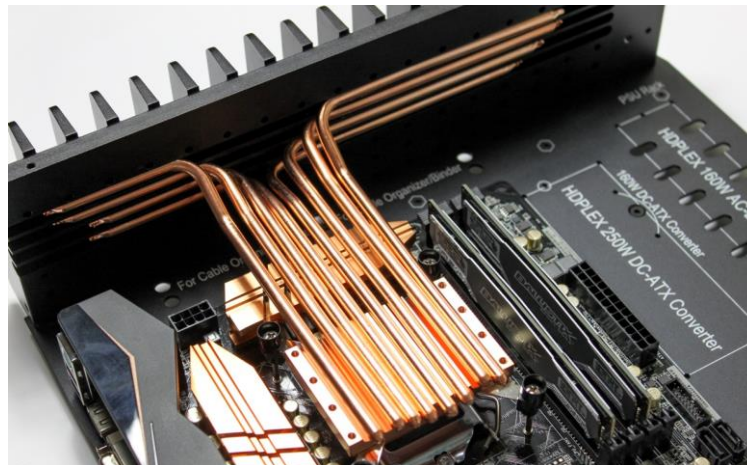
Install heatpipe 3 and 4.



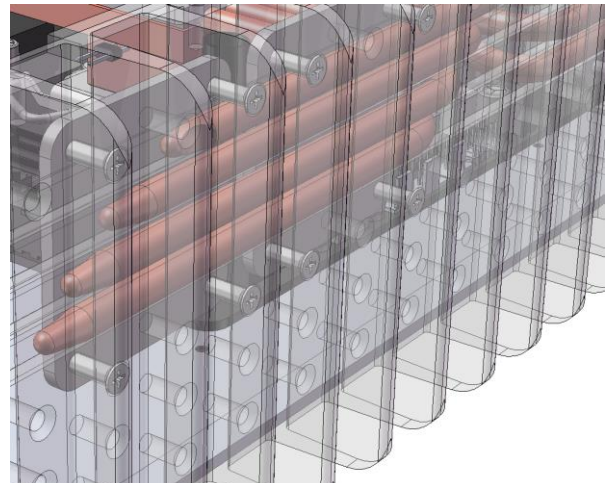
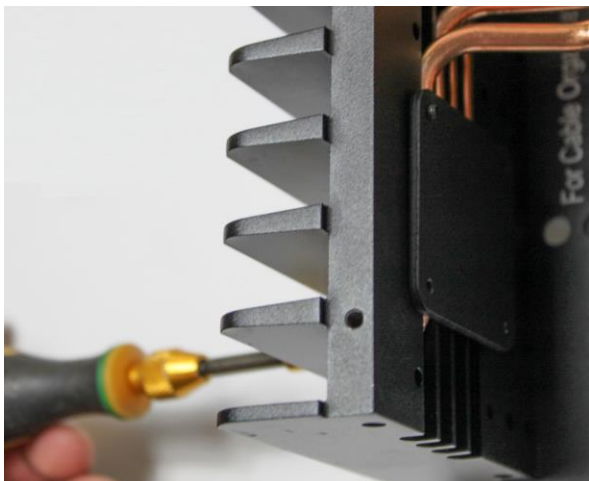
Install heatpipe 5 and 6.



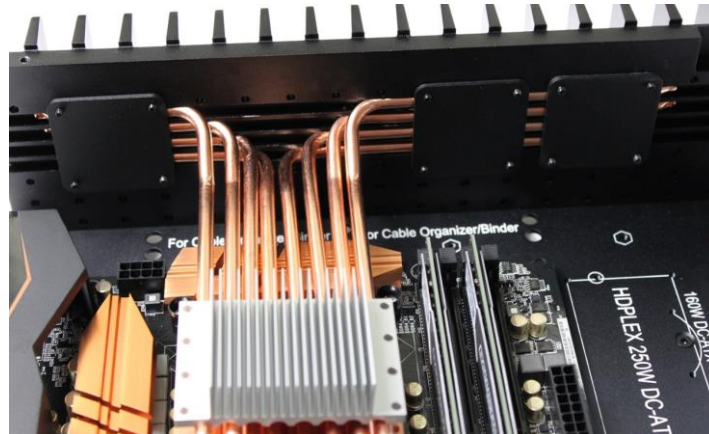
Install heatpipe 7 and 8.



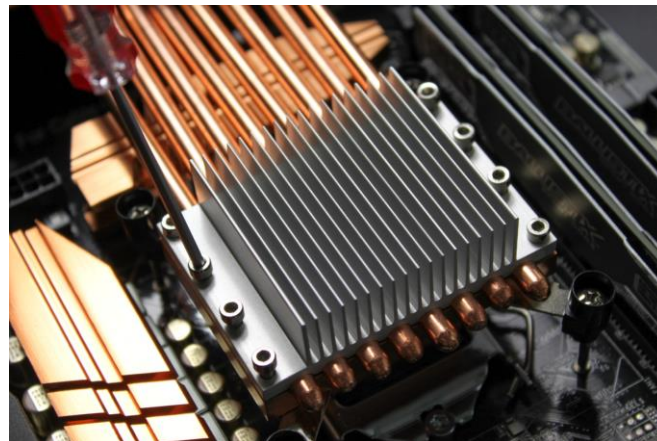
Tighten the **H-9** to the side panel using **H-4** which goes through the hole on the side panel from outside of the H5 chassis. **H-9** is **NOT** square shape and needs to be in the correct direction to match the mounting hole.



Usually only 3pcs **H-9** are needed to fully lock the heatpipes on the side panel.



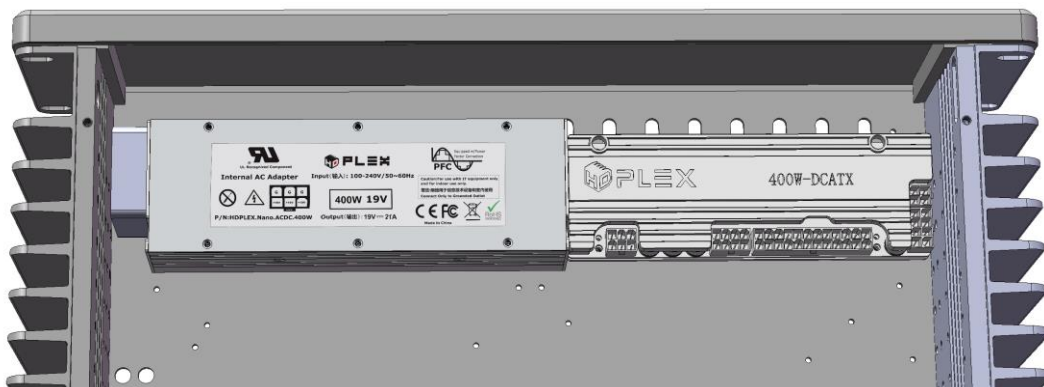
Apply a thin layer of thermal paste on each groove on the aluminum top plate and install the aluminum top plate using 8pcs **H-2**.

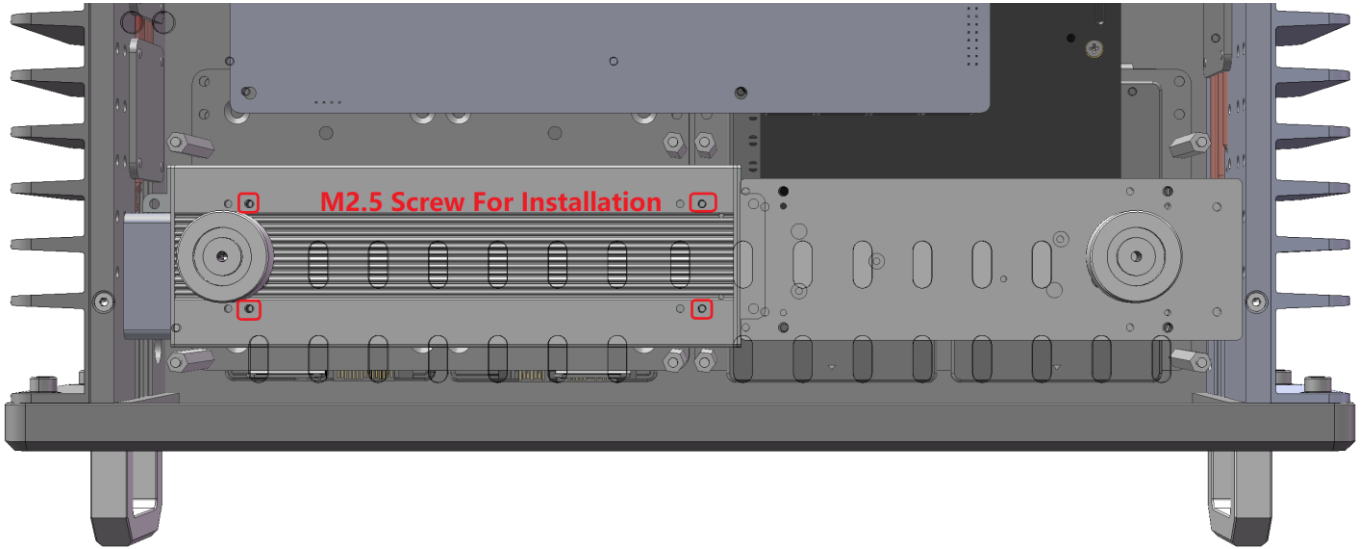


Power Supply Installation

HDPLEX 400W AC-DC+400W DC-ATX NanoATX Combo

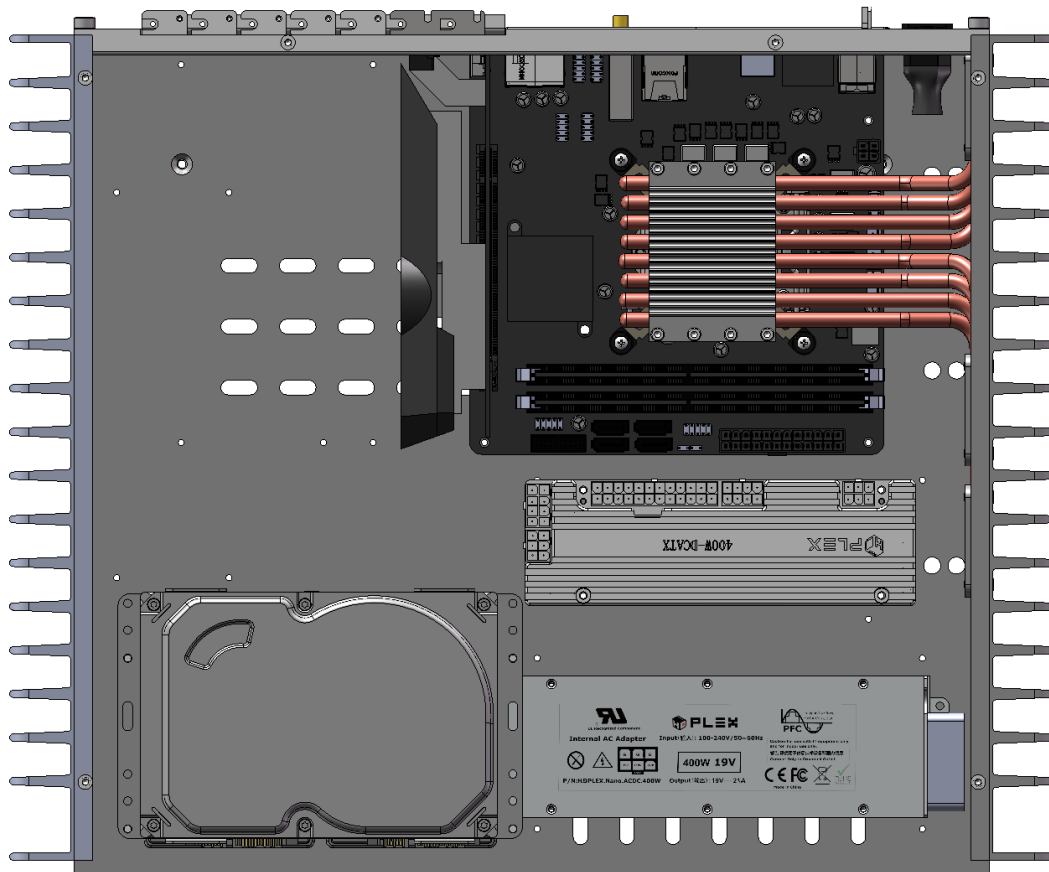
HDPLEX 400W AC-DC is back mounted on the H5 bottom plate via the M2.5 screws come with the HDPLEX 400W AC-DC package. HDPLEX 400W AC-DC optional mounting ears are NOT used for H5 installation.



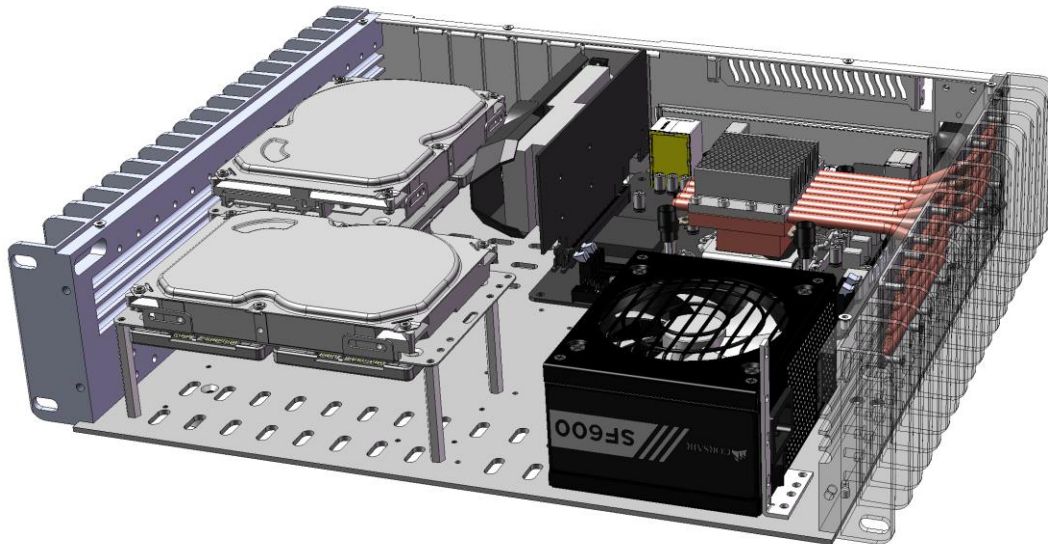


Four M2.5 mounting holes are circled in red. H5 bottom plate is made transparent for clear view. The four M3 holes in the center on the back of the 400W AC-DC adapter are not used for H5 mounting. HDPLEX 400W DC-ATX is front mounted using M3 screws. One 24PIN extension cable is included in the H5 package.

For ITX motherboard, the 400W DC-ATX can be installed on the same side as 400W AC-DC adapter and in front the ITX motherboard.



If you are using standard ATX/SFX/FlexPSU inside H5 for ITX or narrow width ATX/microATX motherboard, attach the universal rack to the power supply using 2pcs **A** first. Plug the AC extension cord to the power supply and install them to the PSU rack mounting hole on the top left of the H5 bottom plate using 2pcs **D**.

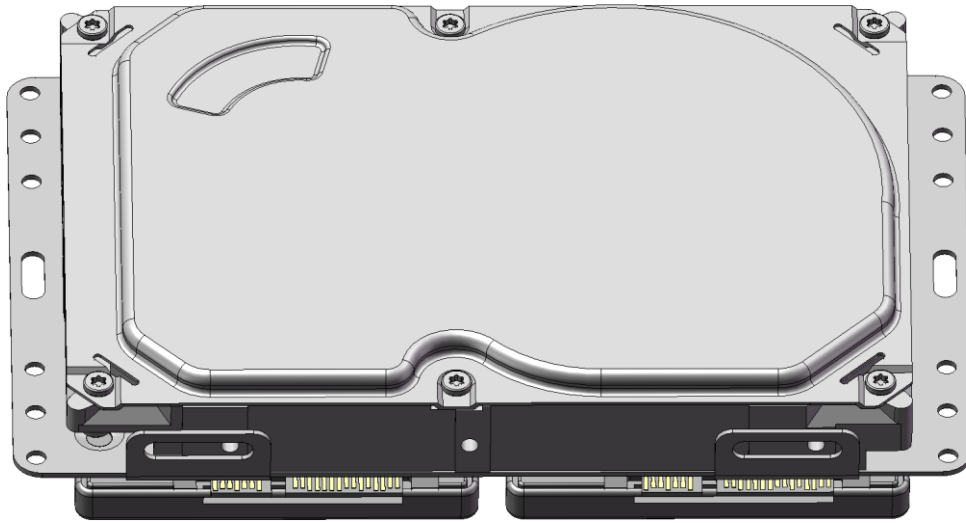


Hard Drive Installation

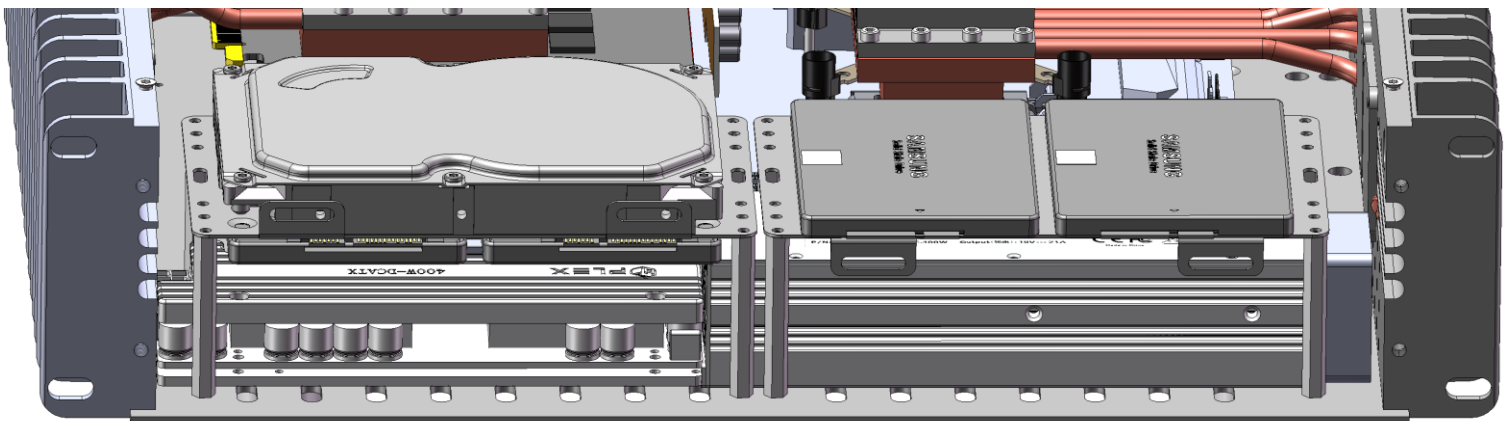
Install 3.5" HDD using **F** and 2.5" HDD/SSD using **D** to the hard drive rack.



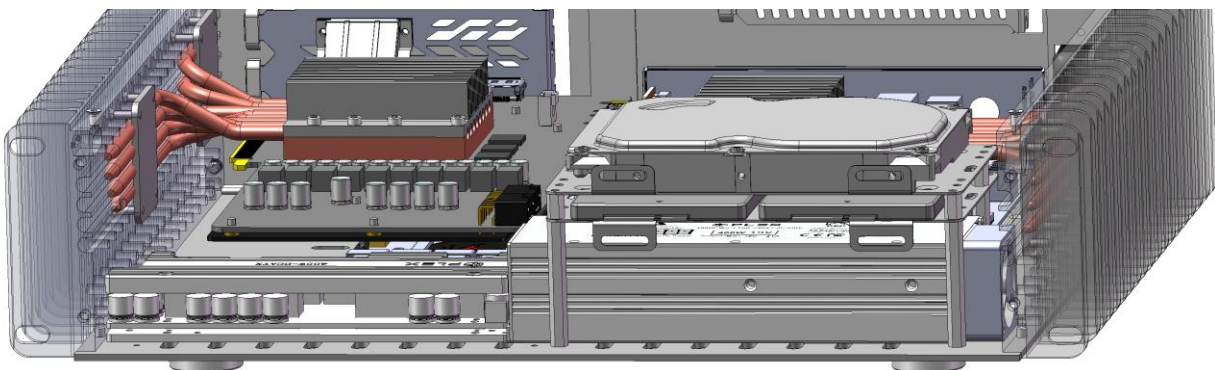
SSD data and power connector will stick out a bit of the HDD rack for SATA cable easy access.



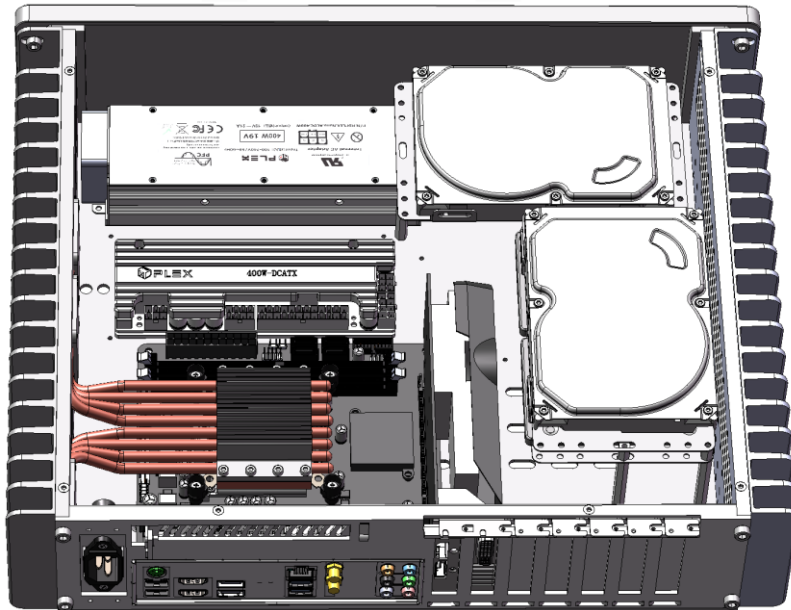
If you are using HDPLEX 400W NanoATX Combo power supply, we recommend using 50mm length copper stud **G** to install the HDD rack. You could install two SSD and one 3.5" HDD on top of 400W DC-ATX converter and two SSD on top of 400W AC-DC adapter with HDD rack reversed.



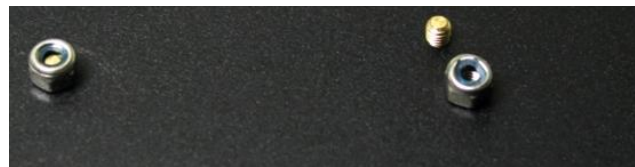
If you have a long video card or is using H5.TODD, you could double stack the second HDD rack with 3.5HDD on top of the first rack using 10mm copper stud.



If you are using ITX motherboard, you can install the second HDD rack on the side position.

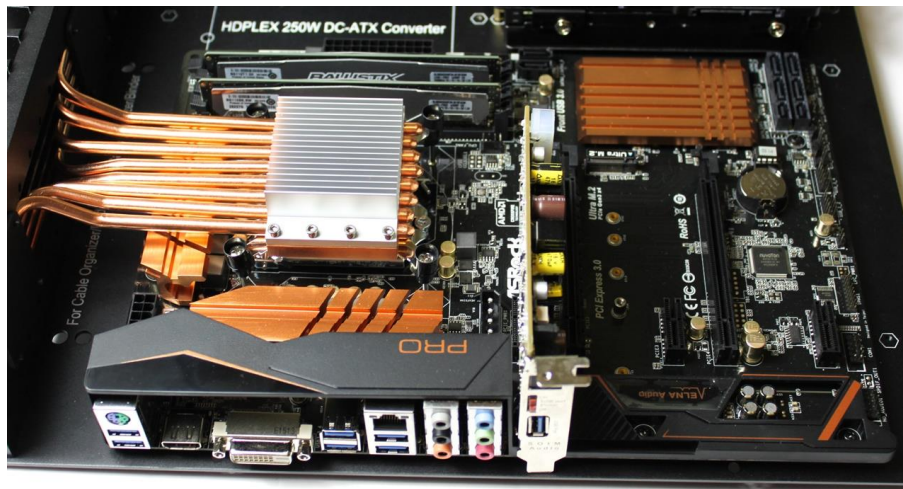


Install screw **A** to lock the HDD rack on the copper stud and **J** lock the copper stud exposed M3 thread on the outside of the HDPLEX bottom plate.



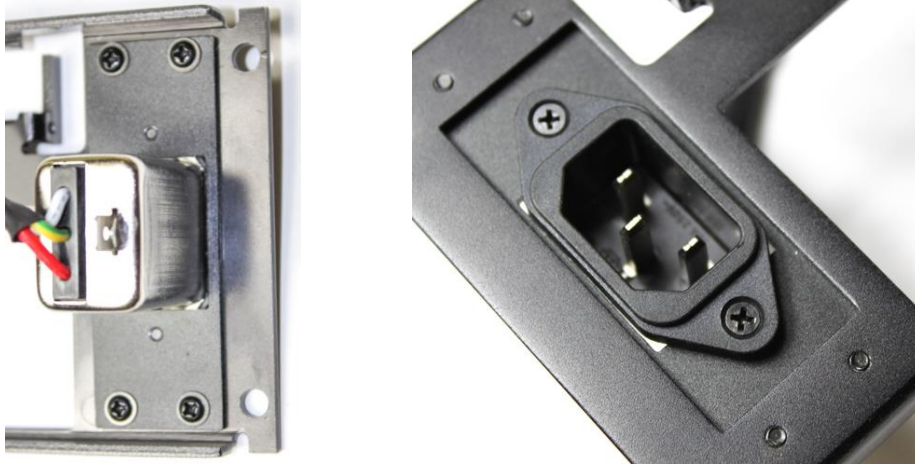
Backplate and PCI-E Card Installation

If you are using the H5 backplate with dual full height horizontal PCI-E slot and a low profile expansion card on the first slot without riser, please install this card on the motherboard **before** you install this H5 back plate!

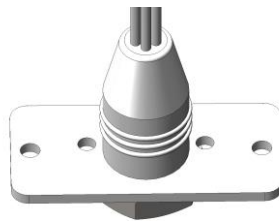


Please install the power adapter plate on to the H5 back plate **before** install the back plate to the H5 chassis.

If you use AC C14 IEC connector, please install the AC adapter plate using 4pcs **A** from the internal side of the backplate and AC C14 connector using 2pcs **D**

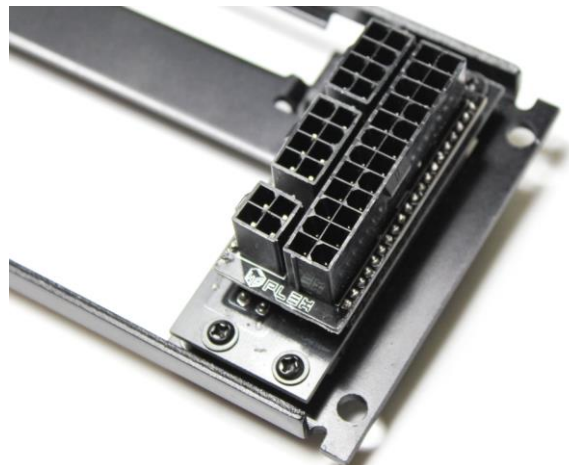


If you are using 7.4*5.0mm self-lock connector, please install the DC Adapter Plate using 2pcs **A** to the AC adapter plate.



HDPLEX ATX Modular Bridge Input Board (This product is included with 500W ATX linear PSU and could also be purchased separately).

Install 4pcs **4mm copper post** (comes with the ATX Modular board) onto the H5 back plate. Install the ATX modular bridge board using 4pcs **A**



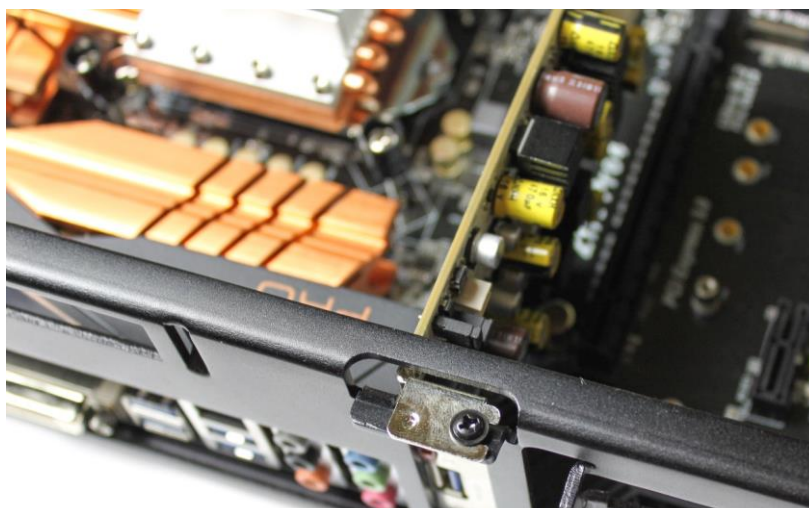
ATX Modular bridge board will conflict with H5 side heatsink panel if installed incorrectly. Below is the view from external side of the H5 backplate.



Install the left heatsink panel on the H5 bottom plate using 2pcs **C**
Attached motherboard I/O shield plate to the H5 back plate and install the back plate using 4pcs **B** to two side panel and two pcs **C** to the bottom plate.



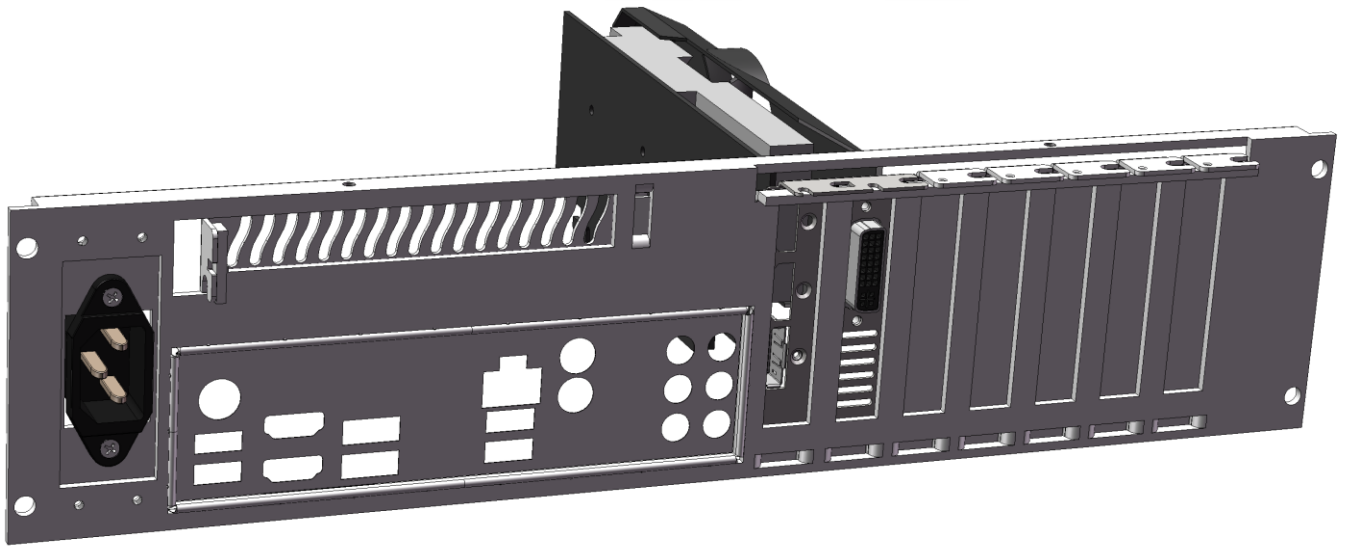
Lock the half height card using 1pcs **A** on the M3 thread hole



If you are using H5 backplate with seven low profile slots, please install the power adapter plate, IEC C14 AC input, and PCI cover bracket first. Lock the PCI cover brackets and power adapter plate using appropriate screws. Install the

low-profile PCI-E expansion card onto the backplate without locking it at the top. Install this backplate with motherboard I/O shield onto the H5 chassis body using **B** and **C**.

If you install this backplate onto the H5 chassis body first, it will be very difficult to install the low-profile PCI-E expansion card later.



After everything is in place, you can lock the top of low-profile PCI-E expansion card using **A**.

GPU Heatsink System Installation

First, please connect the PCIe x16 riser card to your video card and turn on PC to test. If test fine and PCIe x16 card is showing the correct PCIe version (3.0) and speed (x16) under benchmark or load test, disconnect everything.

HDPLEX GPU heatsink system parts list:

- Eight 6mm OD Copper Heatpipes
- Aluminum Top Cover
- Copper Base Plate
- High Quality Thermal Paste 3.5g
- Aluminum Plate for Heatpipe installation 4pcs



V-1: M3*14mm M3 screws 16pcs

V-2: M4*10mm CUP Head M3 screws 8pcs

V-3: M2.5*7mm screws w/spring 4pcs

V-2



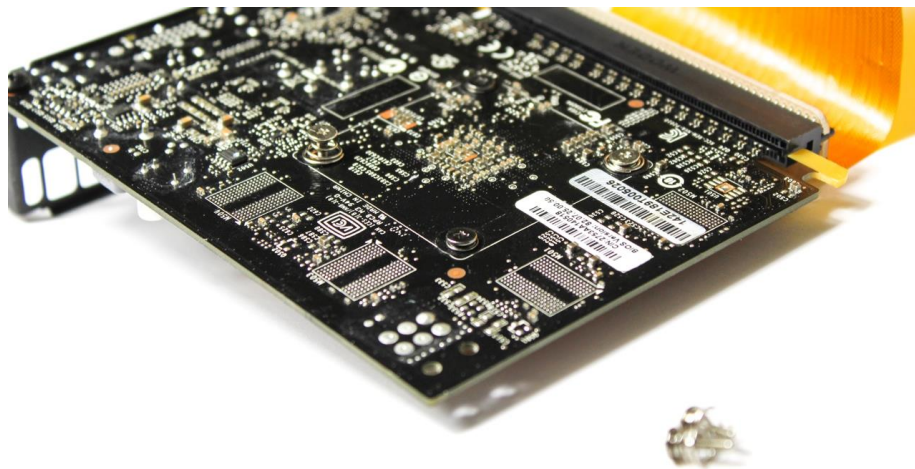
V-3

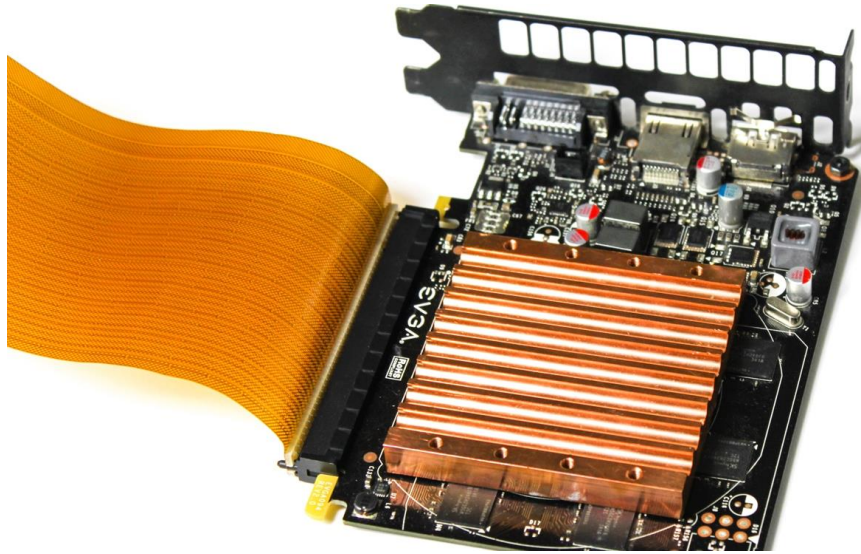


V-1

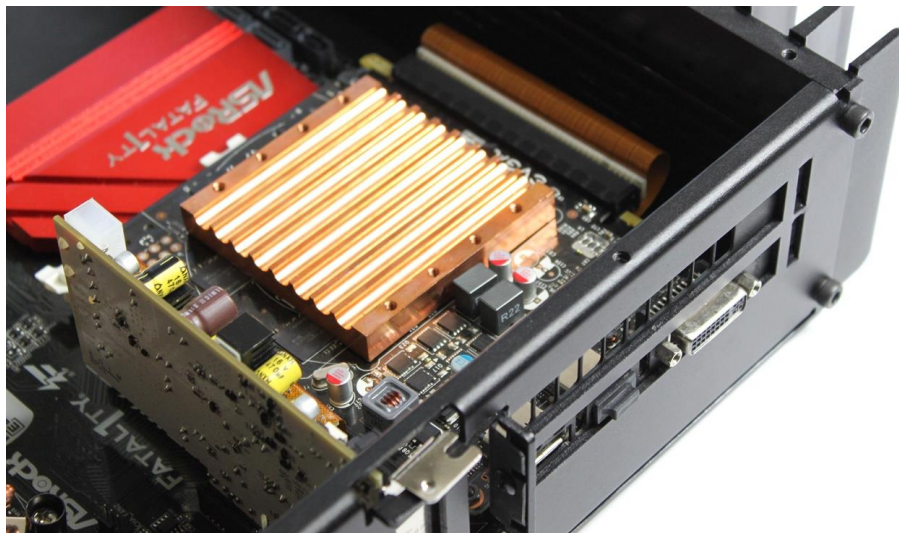


Uninstall the original heatsink from the video card and install the copper plate using 4pcs **V-3**. Please make sure the copper base slot facing the correct direction. Apply a very thin layer of thermal paste between copper base plate and GPU top plate.

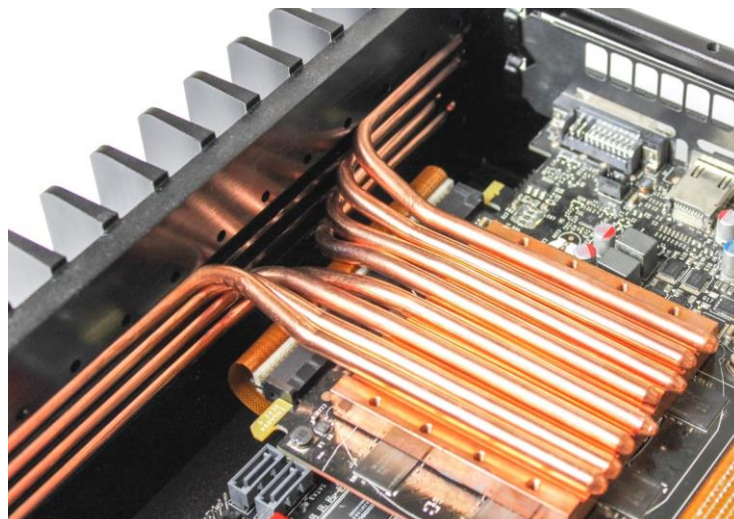


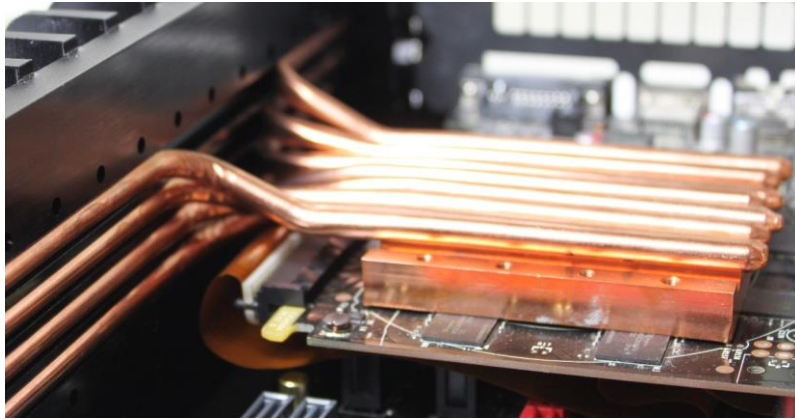


Install the video card to the H5 back plate. Slide the dual bracket tip inside and using 1pcs **A** firmly attach the video card bracket to H5 back plate.

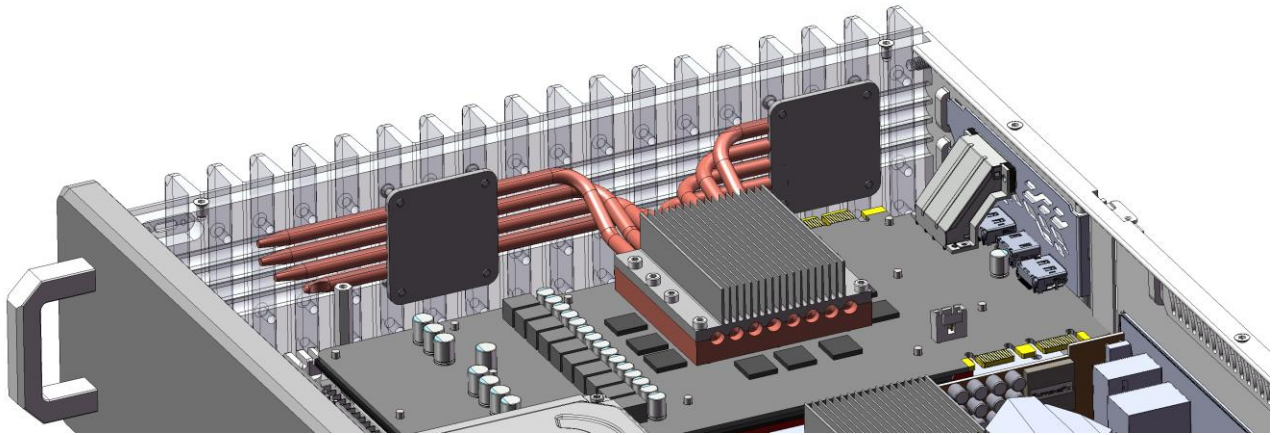


Apply thin layer of thermal paste to the side panel groove and install eight heatpipes following the below pattern.



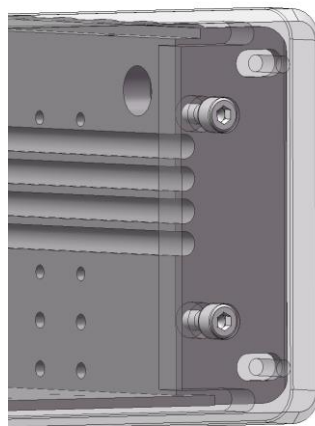


Install the 3pcs aluminum plate on the side panel using **V-1** first and aluminum top cover using 8pcs **V-2**

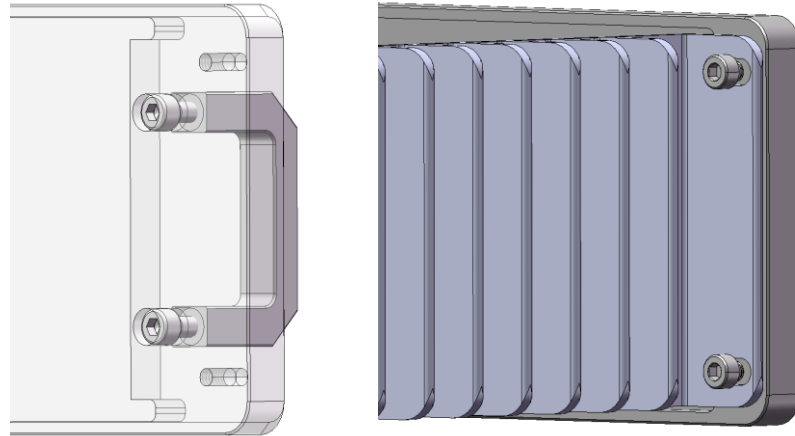


Faceplate Installation

If you don't need front handle, just mount the faceplate using 4 HEX Socket Cap Head M5*12mm **B** to the two H5 side heatsink panel.

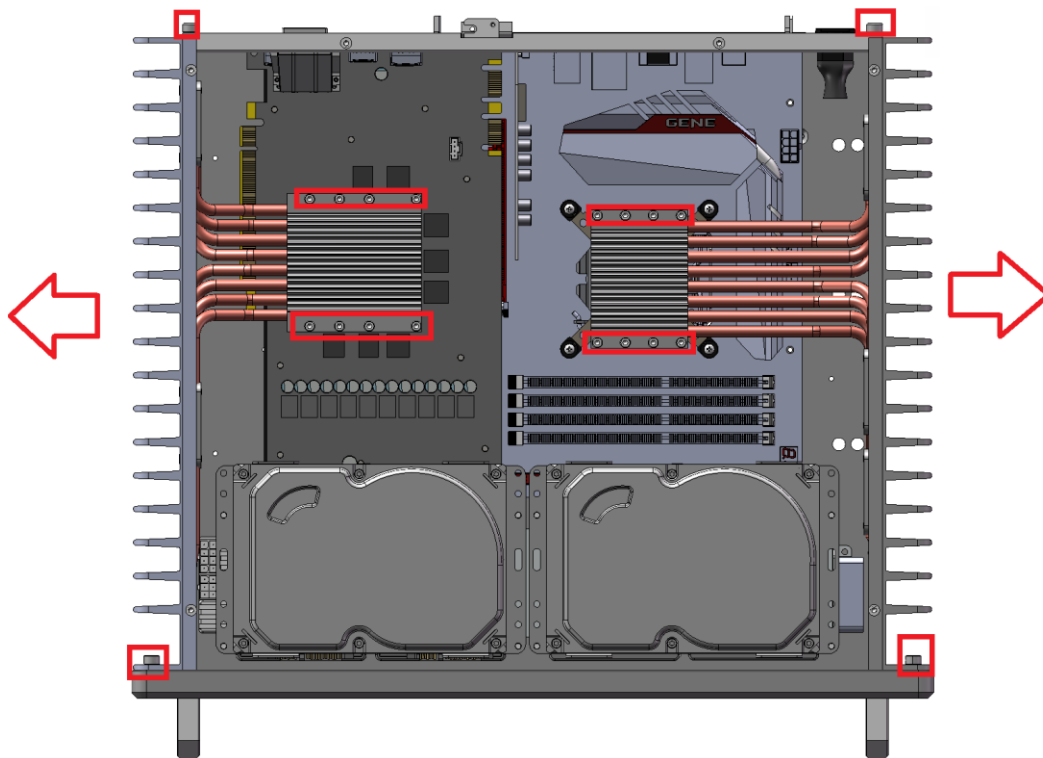


To install optional handle. First use 4pcs Hex Socket Cap Head M4*14mm **B** to install the front handle from the back of the faceplate. Use 4pcs Hex Socket Cap Head M5*8mm **B** to mount the faceplate onto side heatsink panel mounting ear from the back. Use M5 HEX key Allen wrench to tighten it.



Test PC thoroughly and make sure heatsink system functions well.

Close the H5 top plate using 6pcs **C**. If the distance between two side panels is too tight for the top plate to fit in, please first loosen the screws in the red circle below, then insert the top plate half way, tighten the screws for the heatsink system aluminum top plate, insert the top plate in full and tighten the rest screws.



For suggestions and advice on HDPLEX fanless chassis, please visit our community at <https://www.hdplex.com/forum>

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