HDPLEX Passive NUC Kit Installation Quick Guide

Check all of the following items are included in the HDPLEX Passive NUC kit package. The installation would require accessories from H1 fanless PC case installation kit as well.

NUC Heatsink Copper Base

A: CUP HEX 10mm 4pcs

B: M2.5x8mm 4pcs

C: M2.5x10mm Flat Head 2pcs

D: M2.5x12mm Flat Head 1pc

E: M3x5mm 8pcs

NUC Heatsink Aluminum Top

F: Copper Stud 17mm 4pcs

H1 V3 Thin ITX Backplate

NUC I/O Plate for HDMI+USB Type C 3.1

NUC I/O Plate for Dual HDMI

Low Profile 90 Degree SATA Power Cable

USB 3.0 Cable (Mounted on the I/O Plate)

PCI Cover Bracket

2.54mm Pitch to 2mm Pitch Adapter for NUC Front Panel

2mm Pitch — 2.54mm Pitch

5V SATA Power Cable with 1.25mm Pitch Header

G 5V

Molex PicoBlade Receptacle 510210500
For Molex 53398-0571 Header

USB 2.0 Cable with 4PIN 1.25mm Pitch Header (Mounted on the I/O Plate)

6PIN Molex Female to 5.5/2.5mm Self Lock DC Jack

3.5mm Audio Jack Extension Cable (Mounted on H1 Side Panel)

5.5/2.5mm Male to Male Cable

Install the USB 3.0 Cable using M3*8mm screw from H1 PC case installation kit to the NUC I/O plate. If you are using HDPLEX internal 80W/200W AC-DC power supply for NUC, install the 6PIN Molex female to 5.5/2.5mm DC Jack self-lock cable.

Install the NUC I/O plate to the internal side of H1 Thin ITX backplate using four **E** M3*5mm screws and PCI dust cover bracket using one **E**. Make sure the NUC I/O plate is on the internal side and matches your NUC I/O layout.

Install four **F** 17mm copper studs to the H1 case bottom plate. You could first drive a regular M3 screw through each mounting hole to smooth the M3 thread and then install the copper stud.

Plug the 2.53mm to 2mm pitch front header adapter to the NUC front panel for PWR and PWR LED. Install SODIMM memory and M.2 SSD. If you are using SATA SSD or other SATA device such as slim optical tray loading drive, install both the SATA power and data cable. Install the USB 2.0 cable in either one of the USB 2.0 1.25mm pitch header.

If you are installing PCIE expansion card, install the M.2 key to PCIEx4 riser. Please also install the SATA power cable and SATA data cable as M.2 SSD is disabled in this case. Install the PCIE card to the H1 Thin ITX backplate before installing this backplate to the H1 two side panels.

Install NUC motherboard using four **A** M3x6mm from H1 installation kit to the four copper stud with NUC CPU facing upwards.

Install HDPLEX Thin ITX backplate to the H1 two side panel using four M5 CUP Head HEX screws from H1 package.

Install H1 PC case PWR cable to the 2.54mm-2mm adapter. Plug the USB 3.0 into either one of the NUC front USB 3.0 port and install USB 3.0 ear to the I/O plate using two M3*8mm from H1 installation kit. Plug 3.5mm jack to the NUC front audio port and lock the other end on the H1 side panel. Install HDPLEX internal 80WAC/200WAC to H1 bottom plate and connect its 19VDC output to the 6PIN-5.5/2.5mm DC jack cable.

Apply a thin layer of thermal paste to the NUC CPU top surface and NUC Heatsink copper base bottom surface.

Please use four M2.5*8mm for 8th Gen NUC square 35*35mm mounting or one M2.5*12mm plus two M2.5*10mm flat head screws for three-point triangle mounting. Using the incorrect type or length of M2.5 screws will cause conflict with SODIMM memory or heatpipes.
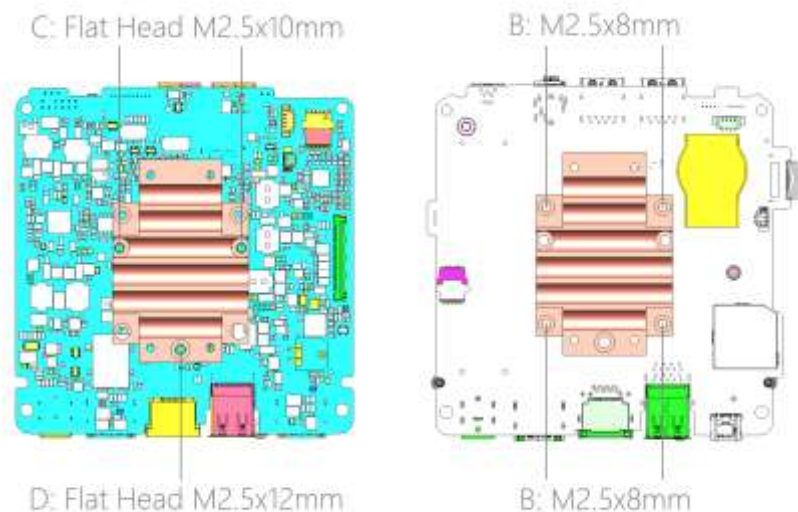
Before mounting the copper base, please apply a gentle pressure to the middle area of the copper base to make sure it sits evenly on the NUC CPU top surface and its bottom surface is in good contact with all area of NUC CPU top surface. Then apply the same amount of torque on all mounting screws until the copper base is firmly attached. Please DO NOT over tighten the mounting screws as it will put too much pressure on NUC CPU top surface and highly likely to cause uneven contact between copper base bottom surface and NUC CPU.

Apply a thin layer of thermal paste to the NUC copper base groove and heatpipe groove on both side panels using the dumbbell tool from the H1 installation kit. Install six heatpipes and H-9 black plate to both side panels using H-4 M3*14mm screws from H1 CPU heatsink system to lock heatpipe to both side panels.

Install the aluminum top plate using four A: CUP head HEX M3*10mm screws.

Install the PCIE Riser cable (M.2 to PCIE riser cable is not included in the HDPLEX Passive NUC kit). Since M.2 socket provides 3.3V only, for PCIE card which needs 5V, please use the FDD to SATA power cable included with the M.2 to PCIE riser to get 5V from NUC SATA power output. If your PCIE card needs 12VDC, you would need to find a 12VDC source. The fan connector on NUC board could be a potential 12VDC source but it might only supports upto 0.5A.

Install SSD using H1 HDD rack. If H1 HDD rack does not align with its mounting hole on both side panels, do the following:

A: Loosen the four M5 CUP Head HEX screws which attach the back plate to both side panels.

B: Loosen the eight CUP Head M3*10mm which attach the aluminum top plate to the NUC heatsink copper base.

Then adjust/tilt both side panels until they align with the HDD rack.

If you are using HDPLEX internal 80W/200W ACDC adapter, please plug the 5.5/2.5mm male to male cable.

19VDC Output   NUC DC Input Jack