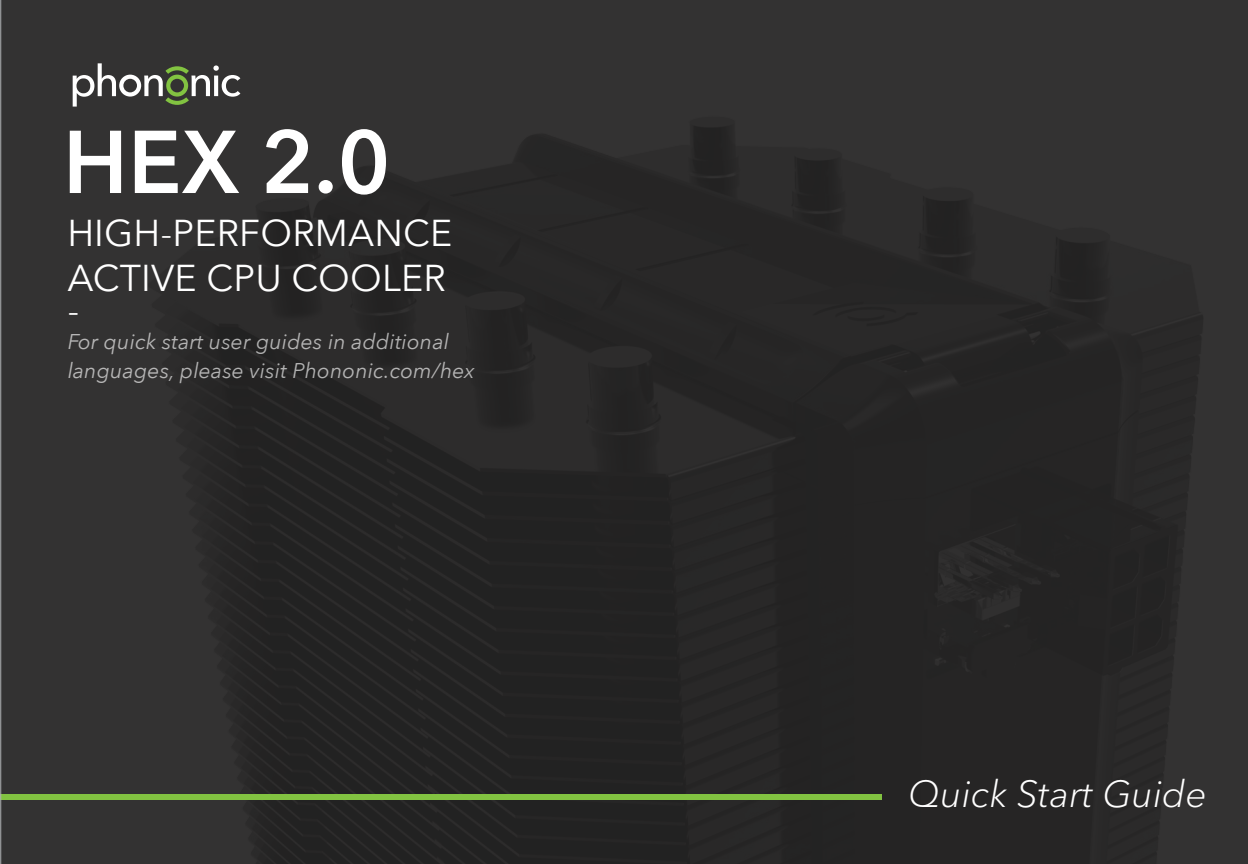
phononic

HEX 2.0

HIGH-PERFORMANCE ACTIVE CPU COOLER

-

For quick start user guides in additional languages, please visit Phononic.com/hex



Quick Start Guide

COMPATIBILITY

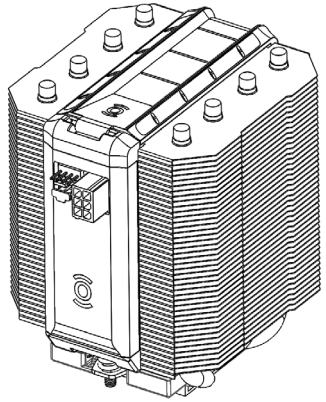
HEX 2.0 performance is compatible with the highest power CPUs on the market, with room for overclocking.

Note: Most newer PC cases include access to the bottom of the motherboard. If your case does not include this access, you may need to remove your motherboard from the case before installation.

Intel Sockets: LGA2011/LGA1156/LGA1155/LGA1150
AMD Sockets: AM3/3+; AM2/2+

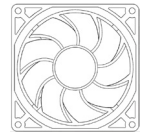
	Intel		AMD
Socket	LGA2011	LGA115x	AM2/+, AM3+
MAX TDP	140W + Max OC	95W + Max OC	220W

HARDWARE

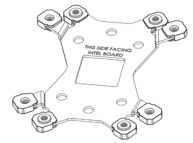


HEX 2.0

NOTE: To release the HEX 2.0 from the plastic retention wrap, remove carrier from package and unfold retention tabs, then slide unit out.



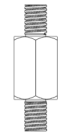
A FAN



B BACKPLATE



C SMALL STANDOFF (X4)



D LARGE STANDOFF (X4)



E AMD BRACKET (X2)



F INTEL BRACKET (X2)



G NUTS (X4)



H THERMAL INTERFACE MATERIAL



I SCREWDRIVER



J FAN EXTENSION



K USB CABLE

AIR FLOW

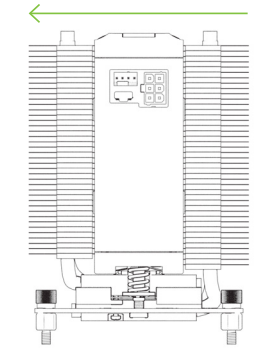
Air flow direction is important for peak performance.

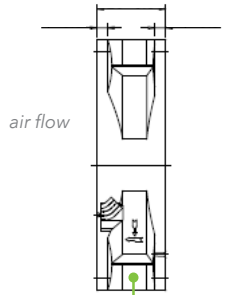
See figure for preferred air flow direction

- Orient internal CPU cooler fan for this air flow direction
- Orient the CPU cooler with respect to case air flow (case fans) as well
- Air flow direction is marked on bottom plastic fan shroud housing

Installation brackets for Intel sockets allow for installation in any orientation.*

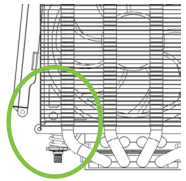
**Check clearance for memory DIMS before installing CPU cooler*





air flow direction indicator on HEX 2.0 fan

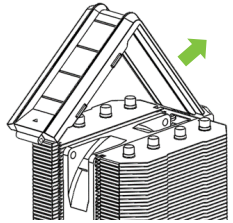
SHROUD REMOVAL



STEP 1

UNLOCK SHROUD

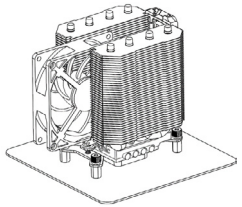
Carefully unlock the shroud at the base of the cooler.



STEP 2

REMOVE SHROUD TOP

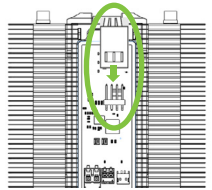
Raise the shroud and remove top portion by sliding the shroud from the hinge.



STEP 3

MOVE FAN

Slide the fan out from HEX 2.0.

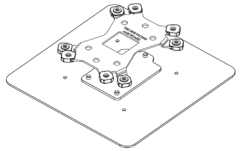


STEP 4

FAN CONNECTOR

The fan can stay connected to the control board for easy installation later; however, it can be removed by unplugging the 4-pin fan connector from the pin connection on the PC board inside the cooler.

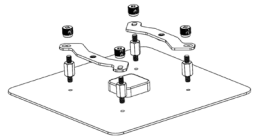
INSTALL GUIDE



STEP 1

ATTACHING BACKPLATE

Attach backplate (B) to the back of the motherboard using included large standoffs (D). Note the side labeled "This side facing Intel board" should face the motherboard.

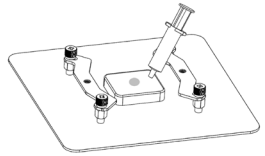


STEP 2

INSTALLING BRACKETS

On the front side of the motherboard, attach the Intel mounting brackets (F) (using inside holes) to the standoffs using the knurled nuts (G). *Note that curve of bracket should be facing outward.*

NOTE: Pay attention to the bracket orientation – any orientation you desire is fine, but cooler performance is maximized when airflow direction through the cooler matches the direction of the PC case.

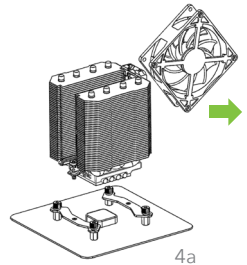


STEP 3

APPLYING THERMAL PASTE

Clean off any residual paste or thermal pads. Apply included thermal paste (H) in the center of CPU package – use a 4-5mm circle. Excessive thermal paste can hinder performance.

INTEL LGA115X

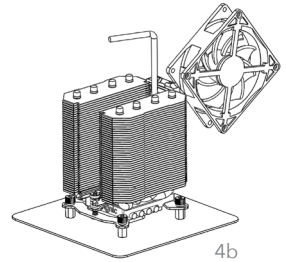


4a

STEP 4

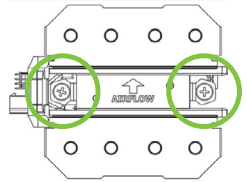
ATTACH COOLER TO BRACKETS

Remove fan shroud and fan to provide access to the bolts that attach to the brackets.



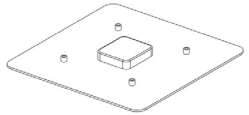
4b

Use a screwdriver to screw the bolts into the brackets, alternating between screws every half-turn.



4c

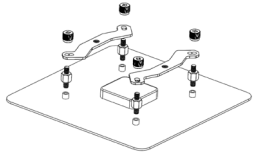
INSTALL GUIDE



STEP 1

INSTALLING THE MOUNTING BARS

The motherboard should have a stock backplate with mounting holes ready to receive the included small standoffs (C).

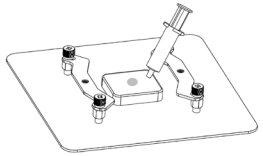


STEP 2

INSTALLING BRACKET

Attach the Intel mounting brackets (F) (using outside holes) to the standoffs using the knurled nuts (G). *Note that curve of bracket should be facing outward.*

NOTE: Pay attention to the bracket orientation – any orientation you desire is fine, but cooler performance is maximized when airflow direction through the cooler matches the direction of the PC case.

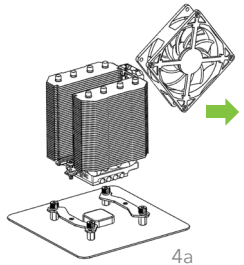


STEP 3

APPLYING THERMAL PASTE

Clean off any residual paste or thermal pads. Apply included thermal paste (H) in the center of CPU package – use a 4-5mm circle. Excessive thermal paste can hinder performance.

INTEL LGA2011

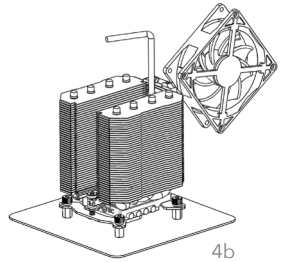


4a

STEP 4

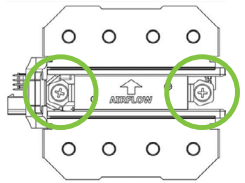
ATTACH COOLER TO BRACKETS

Remove fan shroud and fan to provide access to the bolts that attach to the brackets.



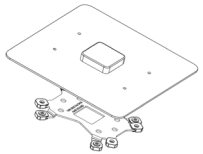
4b

Use a screwdriver to screw the bolts into the brackets, alternating between screws every half-turn.



4c

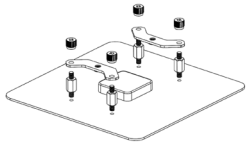
INSTALL GUIDE



STEP 1

ATTACHING BACKPLATE

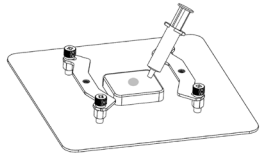
Attach backplate (B) to the back of the motherboard using included large standoffs (D). Note the side labeled "This side facing AMD board" should face the motherboard.



STEP 2

INSTALLING BRACKETS

On the frontside of the motherboard, attach the AMD mounting brackets (E) to the standoffs using the knurled nuts (G). *Note that curve of bracket should be facing inward.*

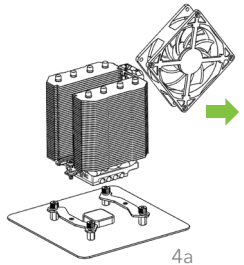


STEP 3

APPLYING THERMAL PASTE

Clean off any residual paste or thermal pads. Apply included thermal paste (H) in the center of CPU package – use a 4-5mm circle. Excessive thermal paste can actually hinder performance.

AMD

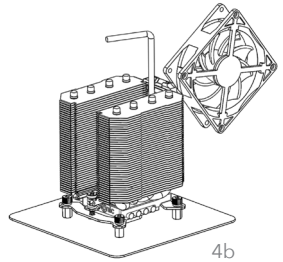


4a

STEP 4

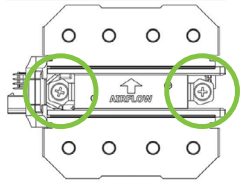
ATTACH COOLER TO BRACKETS

Remove fan shroud and fan to provide access to the bolts that attach to the brackets.



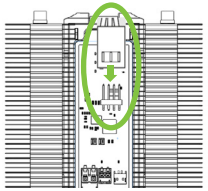
4b

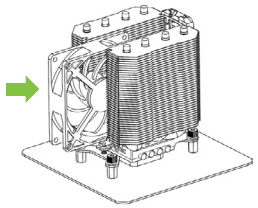
Use a screwdriver to screw the bolts into the brackets, alternating between screws every half-turn.



4c

FAN INSTALL

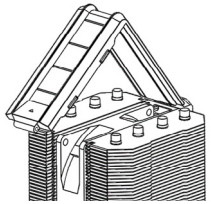


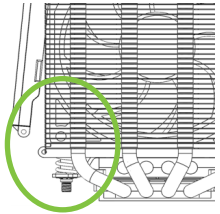


STEP 5

CONNECT FAN

If the fan has been completely removed, plug 4-pin fan connector into the pin connection on the PC board inside the cooler. Slide fan in between fin sets.





STEP 6

SHROUD INSTALL

Re-attach the fan shroud and close it over the fan. The fan shroud will snap into place at the bottom of the cooler.

ATTACHING CABLES

Connect the included cables to the HEX 2.0 cooler. To make connections easier, it is recommended to connect the cables in the following order:

STEP 1

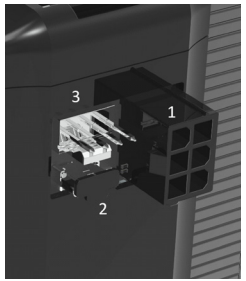
6-pin PCIe power cable from power supply.

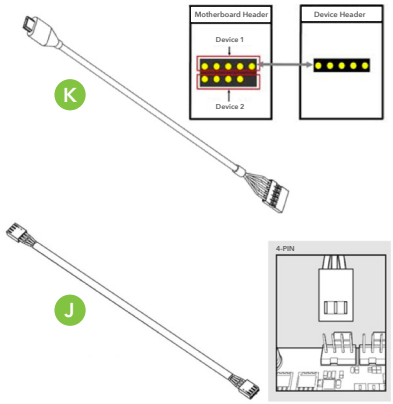
STEP 2

Micro USB cable (K) – Connect 5-pin side to USB header on motherboard. See diagram to the right – most motherboard headers have two (2) USB positions per header. USB connection is not required for operation, but enables customization via the HEX 2.0 dashboard software application.

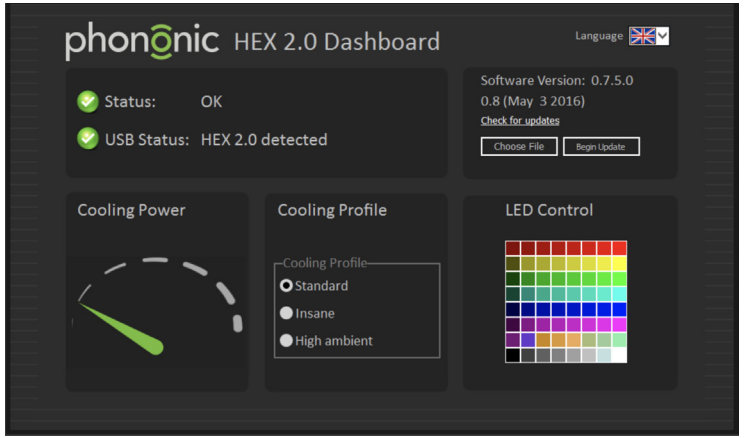
STEP 3

4-pin fan extension cable (J) – Connect other end to CPU fan input on motherboard.





HEX 2.0 SOFTWARE APPLICATION



Using the included USB cable to connect the HEX 2.0 to your motherboard unlocks customization options like LED color and cooling performance when you visit **phononic.com/hex** to download the software application.

You can also check the status of the cooler, check your HEX 2.0 firmware revision, and update the firmware to the latest version.

FAQS

1. Does it matter which direction/orientation the cooler is installed?
   Yes – for optimal performance, the air flow should move from one direction and be in line with case fan air flow.

2. Does the unit control the fan speed?
   No – the fan connector simply passes the BIOS setting through the HEX 2.0 control board. You can still control the fan and set fan curves via BIOS or other utilities.

3. How do I know if the HEX 2.0 active cooling is working?
   The best way to see how the unit is operating is to download the HEX 2.0 Software Application, which runs on Windows OS. The app will describe the unit operation, let you know of any faults and allow you to set LED color and change the set-point when the active cooling powers up.

4. Where can I find HEX 2.0 firmware and app updates?
   *Go to **phononic.com/hex** for all HEX 2.0 related news, updates, and downloads.*

5. I am having a technical question and/or need support.
   *Go to **phononic.com/hex** to contact customer support or call 844-476-4202 Mon-Fri during business hours.*

PRODUCT REGISTRATION

Thank you for purchasing the HEX 2.0.

To register your product, please visit **phononic.com/hex**.

The HEX 2.0 has a 1-year limited warranty.

HEX 2.0 CPU Cooler is designed by Phononic, Durham, NC 27713, USA. Made in China.

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