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Dear customer,

Congratulations on choosing the Noctua NH-D9 DX-3647 4U.

Our DX line of coolers has become a default choice in high performance quiet cooling solutions for Intel Xeon CPUs and the latest DX-3647 revision supports LGA3647 (both Square and Narrow ILM) based Xeon platforms. Each Noctua product is double checked for flawless operation by our quality control team before it leaves the factory and I'm confident that you will be able to sense some of the research, attention and care we've put into making this product. Enjoy your NH-D9 DX-3647 4U!

Yours sincerely,

Roland Mossig, Noctua CEO

This manual will guide you through the installation process of the SecuFirm 2^{TM} mounting system step by step.

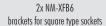
Prior to installing the cooler, please consult the compatibility list on our website (www.noctua.at/compatibility) and verify that the cooler is fully compatible with your motherboard. Please also make sure that your PC case offers sufficient clearance for the cooler and that there are no compatibility issues with any other components (e.g. tall RAM modules). Double check that the heatsink and fan clips do not make contact with the VGA card or other PCIe cards. Noctua cannot be held responsible for any damage or losses caused by compatibility issues.

Should you encounter any difficulties, please check the FAQs on our website (www.noctua.at/faqs) and don't hesitate to contact our support team at support@noctua.at.

Multilingual versions of this manual are available on our website: www.noctua.at/manuals

Required mounting parts:







2x NM-XFB7 brackets for narrow type sockets



Plastic processor clip square type



Plastic processor clip narrow type



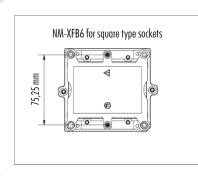


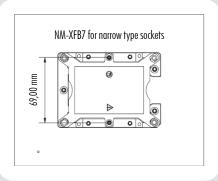
4x NM-SSC2 short screws NM-SMT3 mour

NM-SMT3 mounting tool

1 Determining the socket type (square vs narrow) and selecting the appropriate brackets

Please first check if your motherboard uses square or narrow type socket(s):



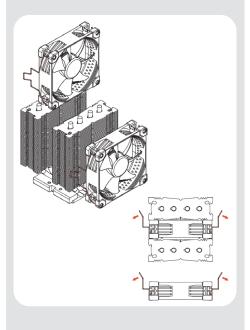


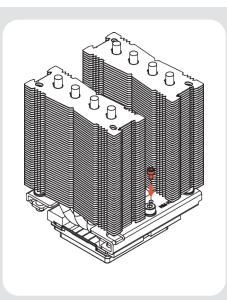
Select the NM-XFB6 brackets for square type sockets and the NM-XFB7 brackets for narrow type sockets.

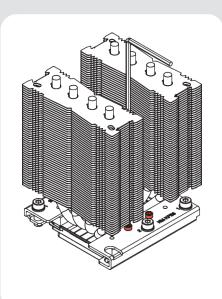
This manual shows the installation procedure on square type sockets, but the procedure is identical on narrow type platforms.

2 Installing the brackets

Take the fans off the cooler. Use the included mounting tool and the short screws to install the appropriate brackets to the cooler.



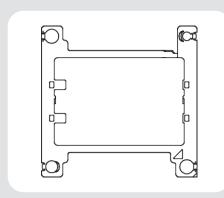




<u>Caution:</u> Gently tighten the screws until they stop, but don't use excessive force (max. torque 0.6 Nm).

Putting the CPU into the processor clip and fixing it to the heatsink

The LGA3647 platform uses a plastic clip that fixes the CPU to the heatsink and ensures that it is properly inserted into the socket. There are different clips for square and narrow type sockets. Please first select the clip that matches your socket type.

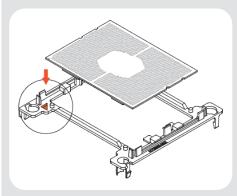


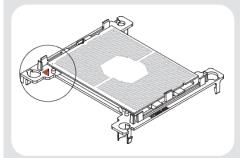


Put the clip upside down so that the long heatsink latches and posts for heatsink alignment are facing downwards.

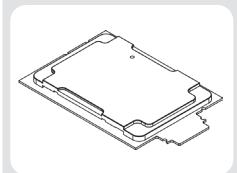


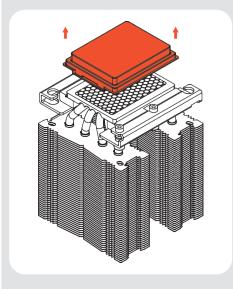
Orient the CPU so that the heatspreader is facing downwards and the golden contacts are facing upwards. Be careful not to touch the contacts. Then put the CPU into the clip, aligning the CPU's pin 1 (golden triangle indicator) with the triangle pin 1 indicator of the clip. Snap the CPU into the clip. Note that you may need to flex the clip a bit for it to latch onto the CPU. Verify that the clip is fully attached to the CPU before proceeding.





Caution: Some LGA3647 CPUs have a so called OmniPath fabric connector. If your CPU is of this type, you need a different processor clip. Please contact support@noctua.at if you have a CPU with OmniPath fabric connector.

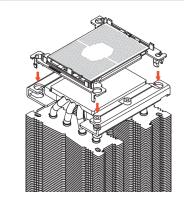




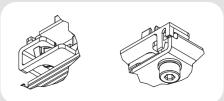
Turn the heatsink upside down so that the base is facing upwards. Carefully put it down onto the tips of the heatpipes and secure it with your hand so that it cannot tilt and that the fins cannot get bent. Remove the plastic protection cover from the base of the heatsink and be careful not to damage the layer of pre-applied thermal compound.

Caution: If you are not using the heatsink for the first time and it therefore doesn't have a fresh layer of pre-applied thermal compound anymore, you need to apply a thin layer of thermal compound to the CPU yourself before clipping it to the heatsink. If there are residual traces of previous thermal paste or thermal pads on your CPU or on the heatsink, please clean them off first.

Put the processor clip and CPU assembly onto the heatsink's base so that the posts of the clip go through the holes of the heatsink's mounting brackets. Push the clip towards the heatsink's base until the latches snap to the mounting brackets.

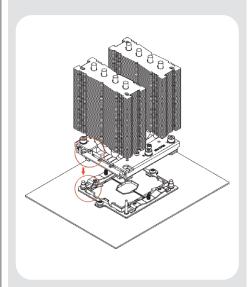


Verify that all the latches have snapped to the mounting brackets and that the CPU and clip are fully attached to the heatsink.

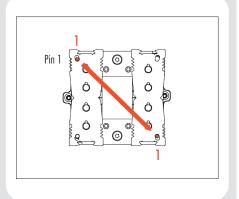


4 Installing the heatsink to the socket

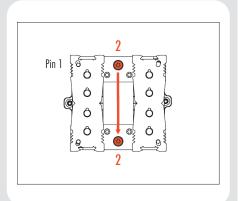
Remove the plastic dust cover from the CPU socket and put the heatsink and CPU assembly onto the socket, aligning the CPU's pin 1 indicator with the pin 1 indicator of the socket.



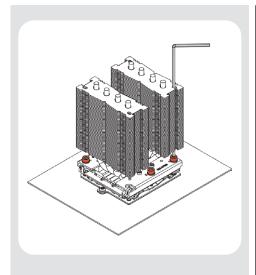
Start fastening the heatsink to the socket by tightening the outer screws (number 1), starting with the screw at pin 1.



Then tighten the two center screws (number 2), starting with the screw that is on the opposite side of pin 1:



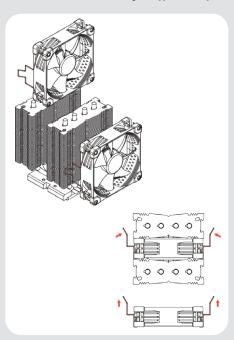
Caution: Gently tighten the screws until they stop, but don't use excessive force (max. torque 0.8 Nm).

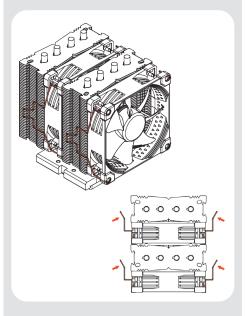


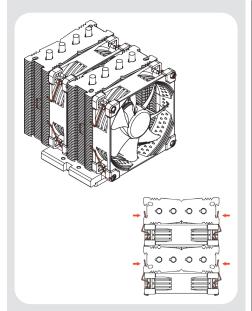
5 Installing the fans

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Reattach the fans to the heatsink using the supplied steel clips:







Connect the fans to the motherboard's CPU fan header(s). You can use the supplied y-cable to connect both fans to a single header.

Removing the heatsink from the socket and the CPU from the heatsink

To remove the heatsink from the socket, please first loosen the center screws (number 2) and then loosen the outer screws (number 1).

As the CPU is attached to the heatsink through the processor clip, removing the heatsink also removes the processor from the socket. To remove the processor from the heatsink, please first unclip the latches of the processor clip from the mounting brackets on one side.

Then take a flat head screwdriver, slide it in between the heatsink and the CPU from the side and twist it carefully until the thermal compound that holds the CPU to the heatsink becomes loose.

Unclip the latches of the processor clip on the other side and take it off. Be careful not to break the latches and make sure that the CPU doesn't fall off.

! Transporting your system

As it is not possible to reliably calculate or control the forces that act upon a system during transport (e.g. in shipping), we generally recommend, for safety reasons, taking the cooler off. Noctua cannot be held responsible for any damage that may arise due to excessive stress during transport if you keep the heatsink

Warranty, Support and FAQs

Even with high-grade products and strict quality control, the possibility of defects cannot be eliminated entirely. Therefore, we aim at providing the highest possible level of reliability and convenience by offering a warranty period of 6 years and direct, fast and straightforward RMA service.

Should you encounter any problems with your NH-D9 DX-3647 4U, please don't hesitate to contact our support team: support@noctua.at

Please also consult the FAQ section on our website: www.noctua.at/faqs