NOCTUA NT-CP1 AM5/4 Edition
INSTALLATION MANUAL

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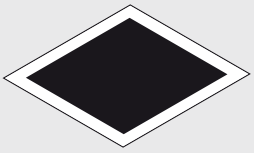
Dear customer,

Thank you very much for choosing the NT-CP1 Carbice® thermal pad for your AM5 or AM4 processor. The NT-CP1 is an innovative premium choice for users looking for a clean, convenient TIM solution with superior long-term, space-grade dependability and zero maintenance. It will give you stable performance years down the line without having to worry about reapplying thermal paste.

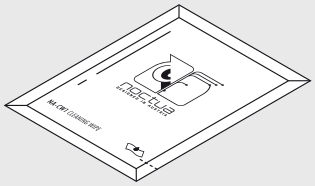
Yours sincerely,

Roland Mossig, Noctua CEO

Scope of delivery



1x NT-CP1
AM5/4 Carbice® pad



1x NA-CW1
cleaning wipe

1 Video tutorial

We also offer a video tutorial that walks you through the installation process:
noctua.at/nt-cp1-installation

2 Installation



1. Place your AM5 or AM4 CPU in the socket and install the required mounting parts for your cooling solution (e.g. spacers and mounting bars).



2. Once you are ready to put the cooler onto the CPU, clean the Integrated Heat Spreader (IHS) of your CPU using the supplied NA-CW1 cleaning wipe or isopropyl alcohol. Wait for any moisture to dry or wipe dry with a paper towel before continuing with step 3.



3. The pad is delivered with protective transparent plastic liners on both sides. Peel off the protective liner on one side.

Caution: Avoid touching the uncovered sides of the pad during installation.



4. Carefully place the pad onto the CPU with the exposed side facing the CPU and the second plastic liner still attached. Firmly press the pad onto the CPU for about 10 seconds.



5. Then peel off the second liner from the top side.



6. Mount your CPU cooler according to the cooler's installation manual.

ⓘ If the pad slips or moves during installation, gently align it at the centre of the IHS and carefully put the cooler on top to keep the pad in place.

ⓘ The pad's thermal performance will improve over time as its polymer coating reflows and the nanotubes conform to the microcavities of the heatsink and cold plate surfaces.

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3 Visual appearance

The carbon nanotube forests of the NT-CP1 are coated with a phase-change polymer material for protection and surface wetting. At elevated storage temperatures, the polymer layers can soften and might leave slight waxy residues inside the packaging. In case you observe waxy residues underneath the protective plastic liners or on the cardboard envelope, this slight liquefaction of the polymer layer will have no negative impact on performance.

4 Performance timeline

Don't worry if the initial temperatures might be a few degrees Celsius higher than with a freshly applied thermal paste. This is normal during the activation-phase of the pad.

Over time and through the thermal cycling that occurs in normal PC usage, the polymer layer liquifies and the carbon nanotubes wick into surface microstructures, which significantly improves heat transfer. Once settled, the NT-CP1 AM5/4 can maintain its peak performance for 10 years or longer. In most cases, no replacement is ever needed, as the pad will likely outlive your CPU.

If you would like to manually speed up the activation phase, we provide a simple, easy-to-follow guide on how to automate thermal cycling using free software:
noctua.at/nt-cp1-activation

5 Removal and reuse

The NT-CP1 usually peels off cleanly. Any remaining light residue can be easily removed with an NA-CW1 cleaning wipe or isopropyl alcohol.

Reusing the pad is generally not recommended. For further information, please see this FAQ:
noctua.at/nt-cp1-reusability

6 Usage on other applications than AMD AM5/AM4

While the NT-CP1 AM5/4 has been optimised and validated for use on AMD AM5 and AM4 CPUs, suitability and performance on other chips cannot be guaranteed. Therefore, using the NT-CP1 AM5/4 for other applications than AM5 and AM4 processors is not recommended. If you want to use the NT-CP1 AM5/4 for other applications at your own risk, please take note of the recommendations provided in the following FAQ: noctua.at/nt-cp1-other-applications

! Further information

Should you encounter any difficulties or have further questions, please check the FAQs on our website (noctua.at/nt-cp1-faqs) and don't hesitate to contact our support team at support@noctua.at.

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

i Specifications

Intended platforms:
AMD AM5 & AM4

Other platforms:
Not recommended

Manufacturer's warranty:
6 years

Expected lifespan:
10+ years

Size:
33x33mm

Thickness:
90μm

Technology:
Carbice® carbon nanotube thermal pad