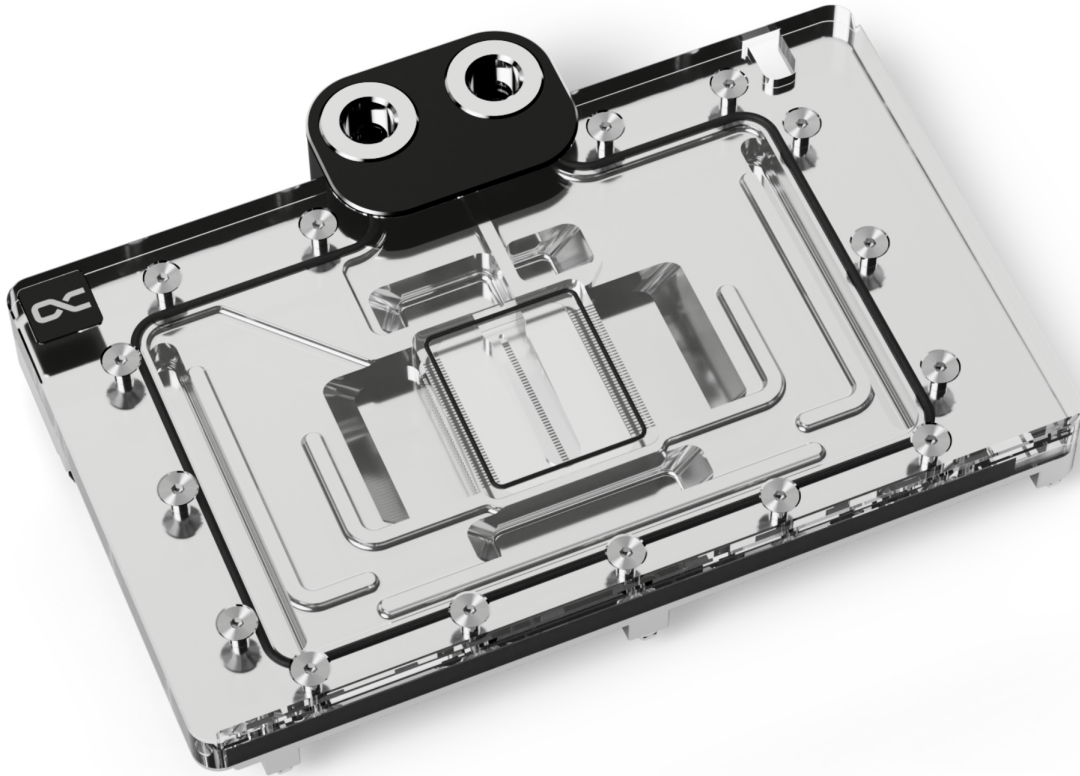


Alphacool Core Geforce RTX 4080 Reference Design with Backplate

Alphacool article number: 13439



Quick Info

Alphacool's Core product series is characterized by high quality, outstanding performance and the uniform and functional design language.

- Optimised fin structure enables very good water flow & increase of cooling surface
- Modified jet plate ensures optimal distribution of the water on the cooling fins
- Visually calm & simple design with digital aRGB illumination
- Chrome-plated copper cooler

Compatibility

- Nvidia Geforce RTX 4080 Reference Design
- INNO3D GeForce RTX 4080 X3 OC, 16GB GDDR6X, HDMI, 3x DP
- INNO3D GeForce RTX 4080 X3, 16GB GDDR6X, HDMI, 3x DP
- INNO3D GeForce RTX 4080 iCHILL X3, 16GB GDDR6X, HDMI, 3x DP (C40803-166XX-187049H)
- PNY GeForce RTX 4080 16GB XLR8 Gaming Verto Epic-X RGB Overclocked Triple Fan, 16GB GDDR6X, HDMI, 3x DP (VCG408016TFXXPB1-O) (*)
- PNY GeForce RTX 4080 16GB XLR8 Gaming Verto Epic-X RGB Triple Fan, 16GB GDDR6X, HDMI, 3x DP (VCG408016TFXXPB1) (*)
- PNY GeForce RTX 4080 16GB Verto Triple Fan, 16GB GDDR6X, HDMI, 3x DP (VCG408016TFXPB1) (*)

(* The cooler is compatible with the GPU, but the rear part of the PCB is not covered. This has no negative effect on the cooling performance!)

Scope of delivery

| | |
|--|----------------------|
| 1x Core Geforce RTX 4080 Reference Design Cooler | 1x Screwdriver |
| 1x Backplate | 1x 45x45x3mm GPU-Pad |
| 4x 8x8x1mm Pad | 3x 56x8x3mm Pad |
| 3x 40x15x1mm Pad | 2x 84x8x3mm Pad |
| 2x 84x8x1mm Pad | 7x M2x10mm Screw |
| 1x Thermal Grease | 1x PCI Bracket |
| 1x Putty tool | 1x ARGB Adapter |
| 4x M2x5mm Screw | 2x G1/4 Plug |
| 4x EVA Washer | 1x Plug tool |

Technical data cooler

| | |
|-----------------------------------|---------------------------|
| Dimensions (L x W x H) | 201,36 x 145,90 x 32,80mm |
| Material cooler | chrome-plated copper |
| Material cooler top | acrylic |
| Threads | 4 x G1/4" |
| Thickness cooler bottom | 11,3mm |
| Thickness cooling fins | 0,4mm |
| Distance cooling fins | 0,4mm |
| Illumination | digital aRGB LEDs |
| Power connector digital aRGB LEDs | 3-Pin JST |
| Power digital aRGB LEDs | 5V |
| Number of digital aRGB LEDs | 11 |
| Color | transparent |

Technical data backplate

| | |
|------------------------|-----------------------|
| Dimensions (L x W x H) | 201,36 x 122,90 x 5mm |
| Material | aluminium |
| Color | black |

Download links

| | |
|------------------|--|
| Manual | 13439_Alphacool_Core_Geforce_RTX_4080_Reference_Design_with_Backplate_Manual.pdf |
| Product pictures | 13439_Alphacool_Core_Geforce_RTX_4080_Reference_Design_with_Backplate_pics.zip |

Packaging dimensions per unit

| | |
|-----------|-------------------|
| L x W x H | 330 x 200 x 50 mm |
| Weight | 1500 g |

Other data

| | |
|--------------|---------------|
| Certificates | CE, FC, RoHS |
| EAN | 4250197134392 |
| Customs code | 84195080900 |

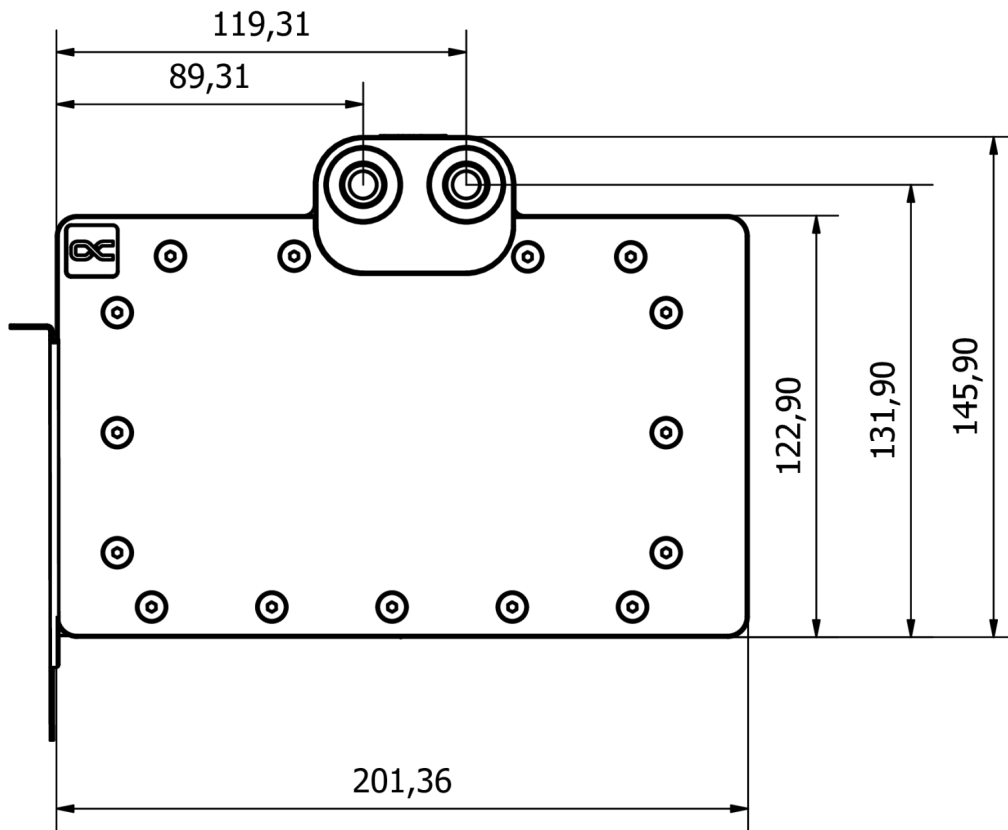
Article text

Alphacool's Core product series is characterized by high quality, outstanding performance and the uniform and functional design language.

The copper cooler which, like the end terminal, is milled from a single piece of copper and is the core of this cooler. The fine workmanship, paired with the hard and resistant chrome plating covering the entire copper cooler, meet the highest quality standards. The chrome-plated brass G1/4" threads integrated on both sides stand out visually from the terminal. They are a central feature of the new design language that will be evident in all products in the Core series.

The aluminum backplate adapted to the design, together with the terminal, makes up the entire unit and enhances the back of the cooler with a clean and homogeneous look. The lighting consists of digitally addressable RGB LEDs, which illuminate the entire cooler evenly and effectively.

The technical advancements can be seen in the water supply to the jet plate as well as in the optimization of the jet plate itself. The jet plate has been completely redesigned based on many simulations and practical tests in cooperation with board partners. The fin thickness and spacing have been enhanced, the cooling surface has been increased and the water flow to the core components with the greatest heat output has been optimized. The enclosed special soft thermal pads with up to 7 W/mK adapt perfectly to even the smallest tolerances.



General tolerance: $\pm 0,25\text{mm}$
Dimension in millimeter