ALPHACOOL – THE COOLING COMPANY

# Alphacool Eisblock HDX-2

**What's this?**

The Alphacool Eisblock HDX-2 is a massive passive cooler for your M.2 SSD. The included PCIe card, on which the water block is mounted, also provides your SSD with an outstanding bandwidth of up to 3900 MB/s.

**Highlights**

1. Enormous cooling surface for optimal cooling performance
2. No more throttling the SSD because of overheating
3. Possible bandwidth of up to 3900 MB/s.
4. Cooling block provides optimal protection for your SSD

**Views:**



Montagebeispiel
(example of installation)

Version: 07/2017
We assume no responsibility for any typos.

## Technical specifications

| Technical Data | Eisblock HDX-2 |
|---|---|
| Dimension (LxWxH) | 100 x 81,5 x 20 mm |
| Material | Aluminium |
| PCIe form factor | 4x PCIe |
| Compatibility | M.2 2280 PCIe SSDs |
| Max. Bandwidth PCIe Card | 3938 MB/s |

## Other information

| Product | Article No. Alphacool | Article No. Aquatuning | EAN Code | Dimension PU in mm | Weight in kg |
|---|---|---|---|---|---|
| Eisblock HDX-2 | 11438 | 1013799 | 4250197114387 | 168 x 108 x 26,5 | 0,275 |

## Mounting material/Scope of delivery

| Scope of delivery | Eisblock HDX-2 |
|---|---|
| Cooler | 1x Topplate<br>1x Backplate |
| Mounting material | Srews, Thermal pads |
| Hexagon socket screw key | 1x |
| PCIe card (M.2 adapter) | 1x |
| Slot cover | 1x |

## Downloads

| Product | Pictures |
|---|---|
| Eisblock HDX-2 | https://www.alphacool.com/download/1013799.zip |

## Article texts

### up to 50 words

With the Alphacool Eisblock HDX-2 passive cooler for your M.2 SSD, you'll never have to deal with throttled performance due to overheating again. The included PCIe card, on which the cooler and SSD are mounted, provides the SSD with a bandwidth of up to 3900 MB/s.

### up to 125 words

The Alphacool Eisblock HDX-2 passive cooler offers outstanding cooling for your M.2 SSD. This is especially necessary for continuous, substantial data transfer, because otherwise the high heat build-up causes the SSD's speed to be throttled to avoid damage. The cooler consists of a large aluminium heatsink, making it the perfect protection for your SSD. The cooler comes with a 4x PCIe card on which the SSD is installed and the cooler is mounted. The 4x PCIe connection provides the SSD with a maximum bandwidth of 3900 MB/s. That's roughly 600% higher than the bandwidth you would have over a normal SATA connection with a 2.5" SSD. Assembling the cooler is extremely simple, and it is possible to use M.2 SSDs with one-sided or double-sided chip placement.

## up to 250 Words

The Alphacool Eisblock HDX-2 passive cooler offers outstanding cooling for your M.2 SSD. Continuous, substantial data transfer dramatically lowers the performance of an M.2 SSD without cooling and can actually drop performance down to as little as 10% of its actual capability.
You can now actively counter this problem with the Eisblock HDX-2 passive cooler.
The M.2 SSD is screwed onto a PCIe card and then mounted onto the cooler. The cooler itself consists of a large aluminium heatsink. The large passive heatsink covers your entire M.2 SSD and provides complete cooling and protection.
The PCIe card is plugged into a 4xPCIe slot and screwed onto the case. With it, data can be transferred at speeds of up to 3900 MB/s. This is a much faster bandwidth than most SSDs can even use. That's a 600% improvement over conventional 2.5" SATA-SSDs, since the maximum bandwidth for those is 640 MB/s. Even compared to motherboard slots, the plug-in card combined with the cooler still offers substantially higher transfer rates. M.2 SSDs on motherboards are often only plugged into a 2xPCIe slot, which halves the maximum data transfer rate.
With the Alphacool Eisblock HDX-2, you can avoid all these problems and get the best performance from your M.2 SSD.

## up to 500 words

The Alphacool Eisblock HDX-2 cooler offers outstanding cooling for your M.2 SSD. Continuous, substantial data transfer dramatically lowers the performance of an M.2 SSD without cooling and can actually drop performance down to as little as 10% of its actual capability. Transferring large amounts of data heats up the memory controller and chips until a safety mechanism kicks in and severely throttles the SSD's performance.
This can be countered by actively cooling the SSD. After developing the M.2 HDX cooler for motherboards with M.2 slots, Alphacool is now offering the HDX-2, a massive passive cooler with a cooling surface many times larger than the HDX M.2 cooler.
The M.2 SSD is screwed onto a PCIe card and then mounted onto the water block. The cooler consists of a large passive aluminium heatsink that completely covers the M.2 SSD. This optimally cools the entire M.2 SSD and prevents a decrease in performance due to high temperatures.
The PCIe card is plugged into a 4xPCIe slot and screwed onto the case. With it, data can be transferred at speeds of up to 3900 MB/s. This is a much faster bandwidth than most SSDs can even use. That's a 600% improvement over conventional 2.5" SATA-SSDs, since the maximum bandwidth for those is 640 MB/s.
Even compared to motherboard slots, the plug-in card combined with the cooler still offers substantially higher transfer rates. M.2 SSDs on motherboards are often only plugged into a 2xPCIe slot, which halves the maximum data transfer rate. It is also difficult to properly cool an M.2 SSD on a motherboard, since the graphics card is generally mounted directly above or below it and tends to significantly heat up the surrounding area.
With the Alphacool Eisblock HDX-2, you can avoid all these problems and get the best performance from your M.2 SSD.