

# Ryzen Direct Die Frame V2

## High Performance Cooling Solutions – Made in Germany

With the Ryzen Direct Die Frame V2, Thermal Grizzly is expanding the compatibility of the Ryzen 7000 Direct Die Frame to include additional processors in response to the production changes that AMD has introduced with the Ryzen 7000X3D processors. It should be noted that the Ryzen Direct Die Frame V2 is not compatible with the Ryzen 8000G series processors. An up-to-date list of all verified compatible processors is available online.

### What are the advantages of "direct die" cooling of the CPU?

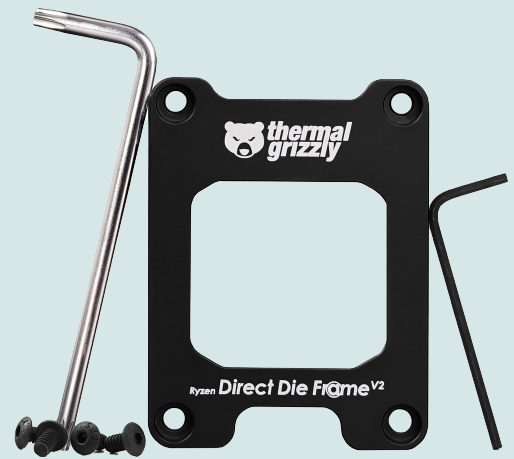
Intel and AMD processors are supplied with a heatspreader on the CPU. This heatspreader is made of copper, which has good thermal conductivity, and protects the CPU's silicon chips from damage. At the same time, it distributes the waste heat from the CPU die over a larger area so that it can be transferred more efficiently to the CPU cooler.

In the case of AM5 processors, the heatspreader is not only comparatively thick, but also has a relatively small contact surface due to the shape of the heatspreader. To avoid this, the heatspreader can be replaced with a suitable upgrade heatspreader or omitted directly. In both cases, the CPU must first be "delidded".

A CPU is mainly delidded in order to

- replace the thermal interface material (TIM) between the CPU die and the heatspreader,
- replace the heatspreader or
- attach the CPU cooler directly to the CPU die.

Please note that delidding the processor is at your own risk and will void the processor's warranty! To use the Ryzen Direct Die Frame V2, the Socket Actuation Mechanism (SAM) must be removed, which may invalidate the manufacturer's warranty of the motherboard.



### Short informations

- Extended compatibility, including Ryzen 7000X3D
- CPU compatibility list available online
- Enables mounting of delidded Ryzen CPUs
- Only for delidded CPUs! Attention: Loss of warranty!

### Scope of delivery

- 1x Direct Die Frame V2
- 4x pan-head screws UNC thread
- 1x hexagon socket wrench
- 1x angle wrench Torx

### Why use a direct die frame?

A direct die frame basically fulfills two functions. Firstly, it fixes the CPU in the socket and thus simplifies installation. This creates a uniform contact pressure on the CPU in the socket, which primarily prevents instability in the RAM. The second important function is to protect the CPU from possible damage when installing the cooler. As the chiplets and other components on the Ryzen CPU are exposed when cooling via direct die, they are very sensitive to mechanical damage. A direct die frame reduces the risk of these components being damaged during cooler installation.

### Trademark Information

Thermal Grizzly is a registered trademark.

### Please note

The data in this technical data sheet are based on our current knowledge and experience. Due to the large amount of possible factors, this should not be construed as to release the users from doing their own tests and screening. No legally binding assurance of specific properties or applicability for a concrete purpose should be derived from these data. Please consider contacting us for further detail. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

## Technical data

Unit:	Value/description:
Material:	Aluminium, anodised
Colour:	Black
Typical application:	CPU mounting aid
Length:	70 mm
Width:	53 mm
Height:	4 mm
Package size:	21x15x2 cm
*Gross weight:	60 g
*Net weight:	16 g
Item number:	TG-DDF-R7000-V2
EAN-Code:	4260711990908
PU:	20 Pcs.

\*Net weight is the total weight of an article excluding the weight of packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Slight weight deviations are possible due to production factors.