

NM-DD1

NOCTUA NM-DD1 MOUNTING KIT



LOGISTIC DATA

Product name	Noctua NM-DD1
EAN	9010018201628
UPC	841501121623
Packaging dimensions (HxWxD)	117x29x17 mm
Weight incl. packaging	36 g
Warranty	6 years
Packaging unit	100 pcs
Packaging dimensions / unit (HxWxD)	382x191x163 mm
Weight incl. packaging / unit	7.80kg

SCOPE OF DELIVERY

NM-DD1

Developed in cooperation with professional overclocker and direct die cooling expert Roman “der8auer” Hartung, the NM-DD1 is a mounting spacer kit that makes it possible to use a wide range of Noctua CPU coolers (see compatibility list) on delidded AMD AM5 processors. Removing the processor’s integrated heat spreader (delidding) and putting the heatsink directly onto the dies allows for much more efficient thermal transfer and can thereby lower CPU temperatures significantly, with typical gains in the range of 10-15°C. The NM-DD1 contains spacers that are put underneath the heatsink’s fastening bracket(s) in order to make up for the height of the removed heat spreader as well as custom, longer screws that make it possible to reinstall the fastening brackets with the spacers in place. All other parts that are required for delidding and direct die cooling (delidding tool, direct die frame for protecting the CPU, liquid metal thermal compound, see step-by-step guide) must be purchased separately.

Improved heat transfer

Removing the CPU’s integrated heat spreader (delidding) and putting the heatsink directly onto the dies using liquid metal thermal compound significantly improves thermal transfer and can typically reduce CPU temperatures by as much as 10-15°C. This increased thermal headroom can either be used to drastically reduce fan speeds and noise levels or, if the CPU allows, to achieve higher turbo boost frequencies.

Precision-made spacers and screws

The NM-DD1 contains precision-made spacers from heat-resistant ABS as well as corresponding screws — everything you will need to put your Noctua cooler lower to make up for the height for the removed integrated heat spreader. Delidding tools, CPU protection frames and liquid metal thermal compound must be purchased separately (see step-by-step guide).

Ideal in combination with offset mounting bars

Noctua’s offset AM5 mounting bars (NM-AMB12, NM-AMB13, NM-AMB14, NM-AMB15) allow users to achieve lower temperatures not only on regular AM5 CPUs, but also on delidded ones as the pressure will be more concentrated over the CCDs. Typically, using the offset mounting option with direct die cooling can yield additional gains of up to 2°C.

Compatible with most popular Noctua CPU coolers

The NM-DD1 contains spacers and screws for coolers with single and two-piece fastening brackets, which makes it compatible with most Noctua CPU coolers since 2005 (see detailed compatibility list), including some of the most popular models such as the NH-D15(S), NH-D14, NH-U14S, NH-U12A, NH-U12S, NH-U12P, NH-U9S, etc.

3D-print at home option

Customers can easily 3D-print the spacers contained in the NM-DD1 kit at home using the STL files shared at [Printables.com](https://www.printables.com) (NM-DDS1 spacers for coolers with two-piece fastening brackets and 83mm mounting-pitch, NM-DDS2 spacers for coolers with single-piece fastening brackets and 78mm mounting pitch; use ABS and high infill percentage for optimal sturdiness and resistance to heat). Installing the fastening bracket(s) with the printed spacers will require four M3x12 screws (for NM-DDS1) or a single M4x10 screw (for NM-DDS2).

Step-by-step guide

Direct die cooling is inherently more complex and demanding than just putting a cooler onto a CPU and it does bear certain risks of damaging components. However, the performance benefits are significant and it’s not as challenging as many people think, so we have put together a simple step-by-step guide that will walk you through the process.

