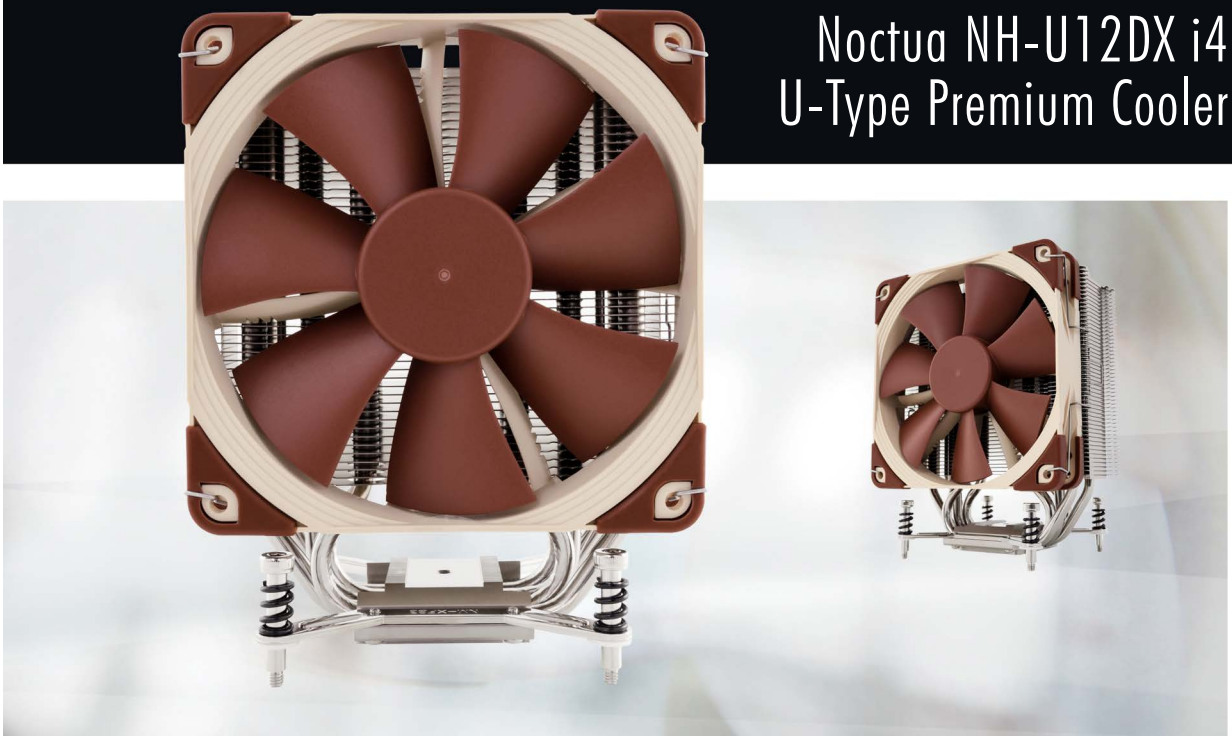
NH-U12DX i4

Noctua NH-U12DX i4
U-Type Premium Cooler



Noctua's DX line of coolers has become a default choice in high performance quiet cooling solutions for Intel Xeon CPUs. The latest i4 revision supports LGA2011 (both Square ILM and Narrow ILM), LGA1356 and LGA1366 based Xeon platforms and the 12cm model NH-U12DX i4 comes equipped with Noctua's award-winning NF-F12 Focused Flow™ fan with PWM for automatic speed control. Due to its slim design, the NH-U12DX i4 now provides easy access to the memory slots and better compatibility with tall modules. Fitted with the professional SecuFirm2™ mounting system and bundled with Noctua's industrial-grade NT-H1 thermal compound, the NH-U12DX i4 forms a complete premium quality package for quietly cooling Xeon based workstations and servers.

LOGISTIC DATA

Product Name
Noctua NH-U12DX i4

EAN-No.
471612331497-4

Dimensions (HxWxD)
115 x 240 x 170 mm

Weight
1.263 gr

Warranty
6 years

UVP
69.90 EUR

Packaging Unit
12 pcs.

Dimensions / Unit (HxWxD)
525 x 485 x 245 mm

Weight / Unit
16.50 kg

SCOPE OF DELIVERY

- 1x NH-U12DX i4 Heatsink
- 1x NF-F12 PWM Premium Fan
- 1x Low-Noise Adapter (L.N.A.)
- 1x NT-H1 High-End Thermal Compound
- 1x SecuFirm2™ Mounting Kit
- 1x Anti-vibration pads and fan-clips for optional second NF-F12

Award-winning NH-U12 series

The NH-U12DX i4 is based on the latest version of Noctua's award-winning NH-U12 coolers. First introduced in 2005, the NH-U series has become a standard choice for premium quality quiet CPU coolers and won more than 400 awards and recommendations from leading international hardware websites and magazines.

NF-F12 120mm Focused Flow™ fan

Recommended by more than 150 hardware publications and thousands of enthusiasts world-wide, the Noctua's premium quality NF-F12 Focused Flow™ 120mm fan is renowned to combine superb static pressure, excellent heatsink performance and surprising quietness of operation.

PWM support and Low-Noise Adaptor

The NF-F12 120mm fan supplied with the NH-U12DX i4 supports PWM for convenient automatic speed control through the mainboard. In addition, the maximum fan speed can be reduced from 1500 to 1200rpm using the supplied Low-Noise Adaptor for even quieter operation.

SecuFirm2™ mounting system

Noctua's SecuFirm2™ mounting systems have become synonymous with quality, safety and ease of use. Supporting Intel's LGA2011 (both Square and Narrow ILM), LGA1356 and LGA1366 Xeon platforms, the SecuFirm2™ mounting included with the NH-U12DX i4 guarantees perfect contact pressure and maximum convenience on all sockets.

NT-H1 thermal compound

Noctuas NT-H1 ist eine bewährte, von mehr als 100 Hardware-Journalisten rund um die Welt empfohlene TIM-Lösung, die minimalen thermischen Widerstand mit exzellentem Anwendungskomfort und hervorragender Langzeitstabilität verbindet.

Anti-vibration pads and fan-clips for second NF-F12 (optional)

For users who want to achieve even better performance by adding a second, optional NF-F12 fan to create a push/pull setup, the NH-U12DX i4 includes fan clips and an extra set of custom-designed anti-vibration pads that allow to off-set the rear fan by 5mm to improve acoustics in dual-fan mode.

6 years warranty

Noctua products are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the supplied NF-F12 features an MTBF rating of more than 150.000 hours and the entire NH-U12DX i4 package comes with a full 6 years manufacturer's warranty.

COOLER SPECIFICATIONS

Socket compatibility	Intel LGA2011 (Square ILM & Narrow ILM), LGA1356, LGA1366 (with Xeon Backplate)
Dimensions	158 x 125 x 45 mm
Dimensions with NF-F12 PWM	158 x 125 x 71 mm
Weight without fan	580 gr
Weight with NF-F12 PWM	755 gr
Material	Copper (base and heat-pipes), aluminium (cooling fins), soldered joints & nickel plating
Fan compatibility	120 x 120 x 25 mm

FAN SPECIFICATIONS

Noctua NF-F12 PWM

Dimensions	120 x 120 x 25 mm
Connector	4-pin PWM
Bearing	SSO2-Bearing
Blade Geometry / Frame Technology	Heptaperf™
Max. Input Power / Voltage Range	0.96 W / 12 V
MTBF	> 150.000 h

NF-F12 PWM	w/o Adaptor	with L.N.A.
Max. Rotational Speed (+/-10%)	1500 RPM	1200 RPM
Max. Airflow	93.4 m³/h	74.3 m³/h
Max. Acoustical Noise	22.4 dB(A)	18.6 dB(A)
Max. Static Pressure	2.61 mmH_2O	1.83 mmH_2O

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DESIGNED IN AUSTRIA

Designed in Austria, Noctua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 3000 awards and recommendations from leading hardware websites and magazines, Noctua's fans and heatsinks are chosen by more than a hundred thousand satisfied customers around the globe.

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