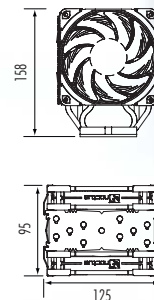


NH-U12S DX-3647

Noctua NH-U12S DX-3647 U-Type Premium Cooler



Noctua's DX line CPU coolers have become a default choice in premium grade quiet cooling solutions for Intel Xeon processors. The NH-U12S DX-3647 features a larger, custom-designed contact surface and supports both square and narrow type LGA3647 platforms. Based on the proven, 120mm size NH-U12S heatsink and equipped with two of Noctua's award-winning, PWM controlled NF-A12x25 120mm fans, it provides an excellent balance of performance, compatibility and quietness of operation. Topped off with the professional SecuFirm2™ mounting system and pre-applied NT-H1 thermal compound, the NH-U12S DX-3647 forms a complete premium quality package for quietly cooling LGA3647 based Xeon workstations and servers.

DX series for Intel Xeon

First introduced in 2008, Noctua's DX line CPU coolers have become a standard choice when it comes to quiet, premium grade air cooling solutions for Intel Xeon processors. Thanks to their superior acoustic efficiency, they are ideal for workstations and servers that run in noise sensitive environments (e.g. audio/video production, content creation, engineering, etc.).

Customised for LGA3647

The new DX-3647 line coolers are dedicated, customised solutions for Intel's professional LGA3647 platform, which makes them an ideal fit for both Skylake-SP based Xeon Scalable CPUs (Platinum, Gold, Silver or Bronze, Purley series) and Xeon-Phi processors (code names Knight's Landing or Knight's Mill).

Enlarged contact surface

At 70x56mm, the heatsink's copper contact surface is more than double the size of the standard model. Tailored to fit the enormous integrated heat-spreaders (IHS) of Intel's LGA3647-based processors, this customised design allows for an optimal heat flow from the CPU over the base to the heatpipes and on to the cooling fins.

120mm size for excellent performance and compatibility

With five heatpipes and two next-generation NF-A12x25 PWM 120mm fans, the NH-U12S DX-3647 achieves outstanding cooling performance while maintaining excellent compatibility: At 158mm height and 125mm width, it is short enough to fit most modern tower cases and stays clear of the top PCIe slot on many motherboards.

Dual NF-A12x25 PWM fans

The NH-U12S DX-3647 is equipped with two of Noctua's award-winning, next-generation NF-A12x25 PWM 120mm fans. This exquisite, state-of-the-art push/pull dual fan configuration allows it to achieve a remarkable level of quiet cooling performance despite its relatively compact size.

Pre-applied NT-H1 thermal compound

Noctua's much-acclaimed NT-H1 is a pro-grade TIM solution that provides minimum thermal resistance and outstanding long-term stability. Having the paste pre-applied to the heatsink base ensures optimal bond-line thickness and saves precious time in installation. Ideal for system integrators!

6 years warranty

Noctua products are renowned for their impeccable quality and outstanding longevity. True to this legacy, the NH-U12S DX-3647 heatsink is built to last, and like all Noctua fans, the supplied NF-A12x25 PWM units feature an MTTF rating of more than 150.000 hours. The entire package comes with a full 6-year manufacturer's warranty.

COOLER SPECIFICATIONS

Socket compatibility	Intel Xeon LGA3647 (Square ILM & Narrow ILM)
Dimensions without 2x NF-A12x25 PWM	158x125x45 mm
Dimensions with 2x NF-A12x25 PWM	158x125x97 mm
Weight without 2x NF-A12x25 PWM	626 gr
Weight with 2x NF-A12x25 PWM	1.018 gr
Material	Copper (base and heat-pipes), aluminium (cooling fins), soldered joints & nickel plating
Fan compatibility	120x120x25 mm

FAN SPECIFICATIONS

Noctua NF-A12x25 PWM

Dimensions	120x120x25 mm
Connector	4-pin PWM
Bearing	SS02-Bearing
Blade geometry / Frame technology	A-Series with Flow Acceleration Channels
Max. input power / Voltage range	1.68 W / 12 V
MTTF	> 150.000 h

NF-A12x25 PWM

Max. rotational speed (+/-10%)	2000 RPM
Max. airflow	102.1 m³/h
Max. acoustical noise	22.6 dB(A)
Max. static pressure	2.34 mmH ₂ O

LOGISTIC DATA

Product Name
Noctua NH-U12S DX-3647

EAN-No.
9010018000146

UPC-No.
841501100147

Dimensions (HxWxD)
160 x 227 x 198 mm

Weight
1.710 gr

Warranty
6 Years

MSPR
99.90 USD

Packaging Unit
8 Pcs

Dimensions / Unit (HxWxD)
342 x 417 x 481 mm

Weight / Unit
15.2 kg

SCOPE OF DELIVERY

NH-U12S DX-3647 heatsink
NF-A12x25 PWM Premium fans
SecuFirm2™ mounting system
4-pin y-cable
NT-H1 high-grade thermal compound (pre-applied to the heatsink)