

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.

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.

LOGISTIC DATA

Product name

Noctua NH-U12S DX-3647

EAN

9010018000146

UPC

841501100147

Packaging dimensions (HxWxD)

160x227x198 mm

Weight incl. packaging

1710 g

Warranty

6 years

Packaging unit

8 pcs

Packaging dimensions / unit (HxWxD)

342x417x481 mm

Weight incl. packaging / unit

15.20 kg

SCOPE OF DELIVERY

NH-U12S DX-3647 Heatsink

2x NF-A12x25 PWM premium fan

4-pin PWM y-cable

NT-H1 thermal compound
(pre-applied to the heatsink)

SecuFirm2™ mounting kit

NH-U12S DX-3647 HEATSINK SPECIFICATIONS

Socket compatibility	Intel Xeon LGA3647 (Square ILM & Narrow ILM)
Dimensions	158x125x45 mm
Dimensions with 2x NF-A12x25 PWM	158x125x97 mm
Weight	626 g
Weight with 2x NF-A12x25 PWM	1.018 g
Material	Copper (base and heat-pipes), aluminium (cooling fins), soldered joints & nickel plating
Fan compatibility	120x120x25 mm

NF-A12x25 PWM FAN SPECIFICATIONS

Dimensions	120x120x25 mm
Connector	4-pin PWM
Bearing	SS02
Blade geometry	A-Series with Flow Acceleration Channels
Frame technology	AAO
Max. input power	1.68 W
Voltage	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 mm H ₂ O