

# NH-U12S DX-4677

## Noctua NH-U12S DX-4677 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-4677 features a larger, custom-designed contact surface for LGA4677 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-4677 forms a complete premium quality package for quietly cooling LGA4677 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 LGA4677

The new DX-4677 line coolers are dedicated, customised solutions for Intel's professional LGA4677 platform, which makes them an ideal fit for both 4th generation Xeon Scalable CPUs (Platinum, Gold, Silver or Bronze) and w9, w7, w5 or w3 series Xeon processors for workstations.

### Compatible with E1A, E1B and E1C carrier frames

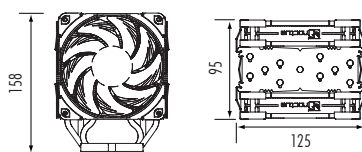
LGA4677 processors require plastic CPU carrier frames for installation, which are included with retail boxed CPUs and available separately via Intel sales partners for tray CPUs. The SecuFirm2™ mounting for LGA4677 is compatible with all types of carriers (E1A, E1B, E1C).

### 6-year manufacturer's warranty

Noctua products are renowned for their impeccable quality and outstanding longevity. True to this legacy, the NH-U12S DX-4677 heatsink is built to last, and like all Noctua fans, the supplied NF-A12x25 units feature an MTTF rating of more than 150,000 hours. The entire package comes with a full 6-year manufacturer's warranty.

### NH-U12S DX-4677 HEATSINK SPECIFICATIONS

Socket compatibility	Intel Xeon LGA4677
Dimensions	158x125x45 mm
Dimensions with 2x NF-A12x25 PWM	158x125x97 mm
Weight	626 g
Weight with 2x NF-A12x25 PWM	1018 g
Material	Copper (base and heatpipes), 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
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 <sub>2</sub> O

### LOGISTIC DATA

Product name  
Noctua NH-U12S DX-4677

EAN  
9010018000382

UPC  
841501100383

Packaging dimensions (HxWxD)  
230x200x130 mm

Weight incl. packaging  
1600 g

Warranty  
6 years

Packaging unit  
8 pcs

Packaging dimensions / unit (HxWxD)  
478x415x303 mm

Weight incl. packaging / unit  
13.60 kg

### SCOPE OF DELIVERY

- NH-U12S DX-4677 heatsink
- 2x NF-A12x25 PWM premium fan
- NA-YC1 4-pin PWM y-cable
- NT-H1 high-grade thermal compound (pre-applied)
- SecuFirm2™ mounting kit for LGA4677
- NM-SMT5 Torx® T30 mounting tool
- Noctua metal case-badge