

U10

Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 07/27/2023

(the specification is subject to change without notice)

U10 | Socket LGA1700/1200/115X/AM5/AM4

Model Number: U10

- Recommend for Intel® and AMD® CPU as following
 - Intel® Socket LGA 1700/1200/115X Processor
 - AMD® Socket AM5/AM4 Processor
- Active Cooler for 1.5U Application & Up

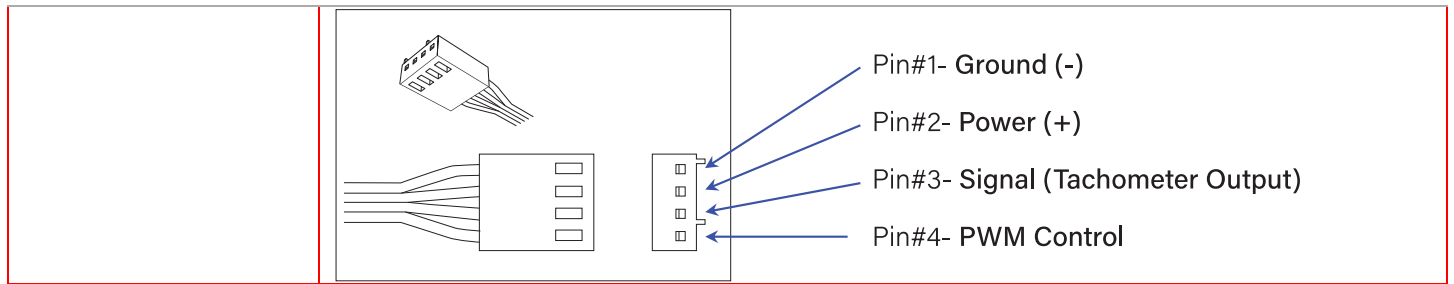
Overall Specification

Dimension	93.5 x 95.0 x 30.0 mm
Weight	348g (Fan + Heatsink)
Material	Copper Base & Aluminum Fins with Heat Pipe Embedded
Fan	92.0 x 92.0 x 12.0 mm Axial fan fan with PWM Function
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP-Intel	115 W at 30° ambient temperature
TDP-AMD	115 W at 30° ambient temperature

Cooling Fan Specification

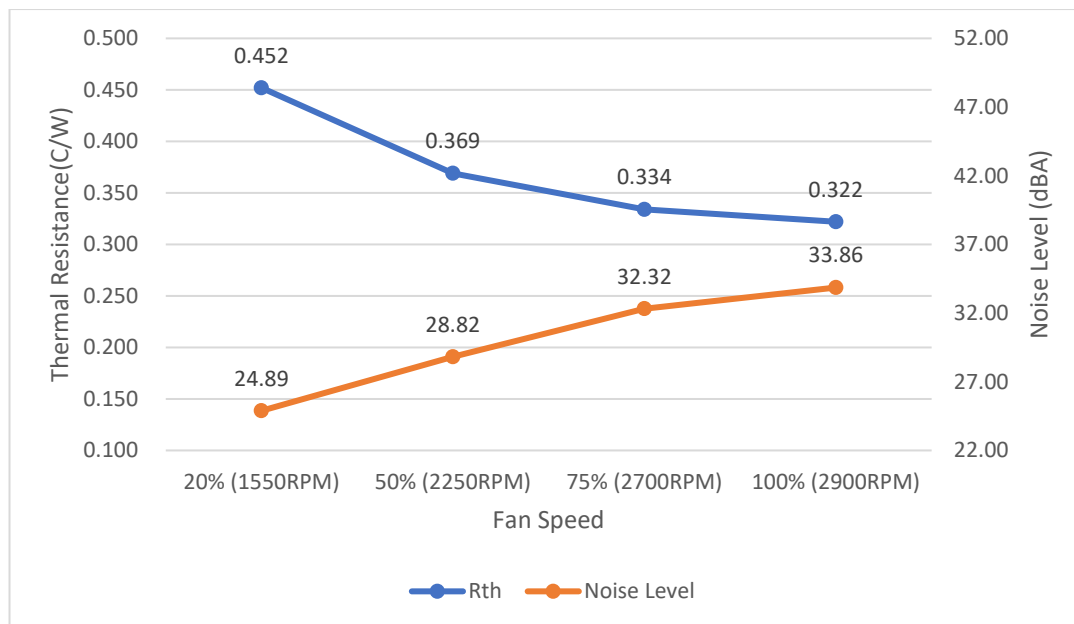
Dimension	92.0 x 92.0 x 12.0 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 800 ± 200 RPM At Duty Cycle 50%: 1900 ± 10% RPM At Duty Cycle 100%: 3200 RPM
Input Power	At Duty Cycle 0~20%: 0.2 W At Duty Cycle 50%: 0.5 W At Duty Cycle 100%: 1.6 W
Maximum Airflow	At Duty Cycle 0~20%: 9.88 CFM At Duty Cycle 50%: 21.38 CFM At Duty Cycle 100%: 35.78 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.28 mm-H2O At Duty Cycle 50%: 1.22 mm-H2O At Duty Cycle 100%: 3.21 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 22.3 dBA At Duty Cycle 50%: 26.1 dBA At Duty Cycle 100%: 36.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Black (+) Pin#3- Black (Tachometer/ Signal Output) Pin#4- Black (PWM) Lead Wire Pin Out Diagram :

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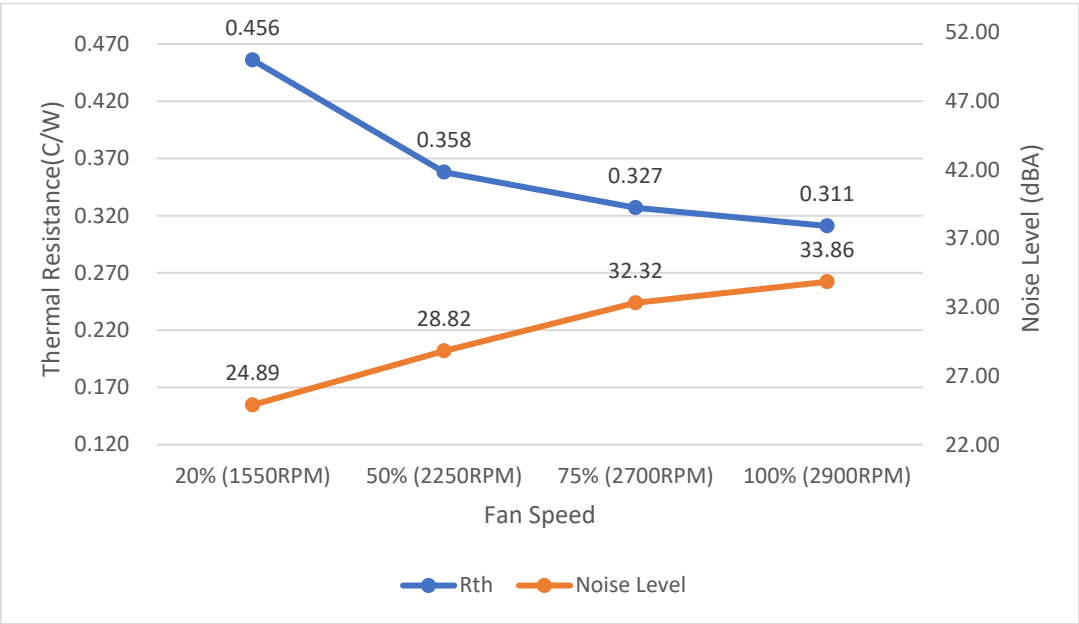


Performance Chart: Active Cooler U10 Thermal Resistance Thermal Resistance vs. Fan Speed (Duty Cycle and RPM)

LGA 1700



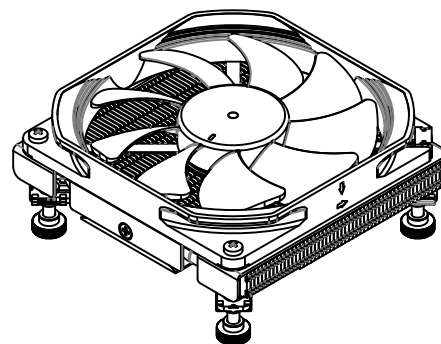
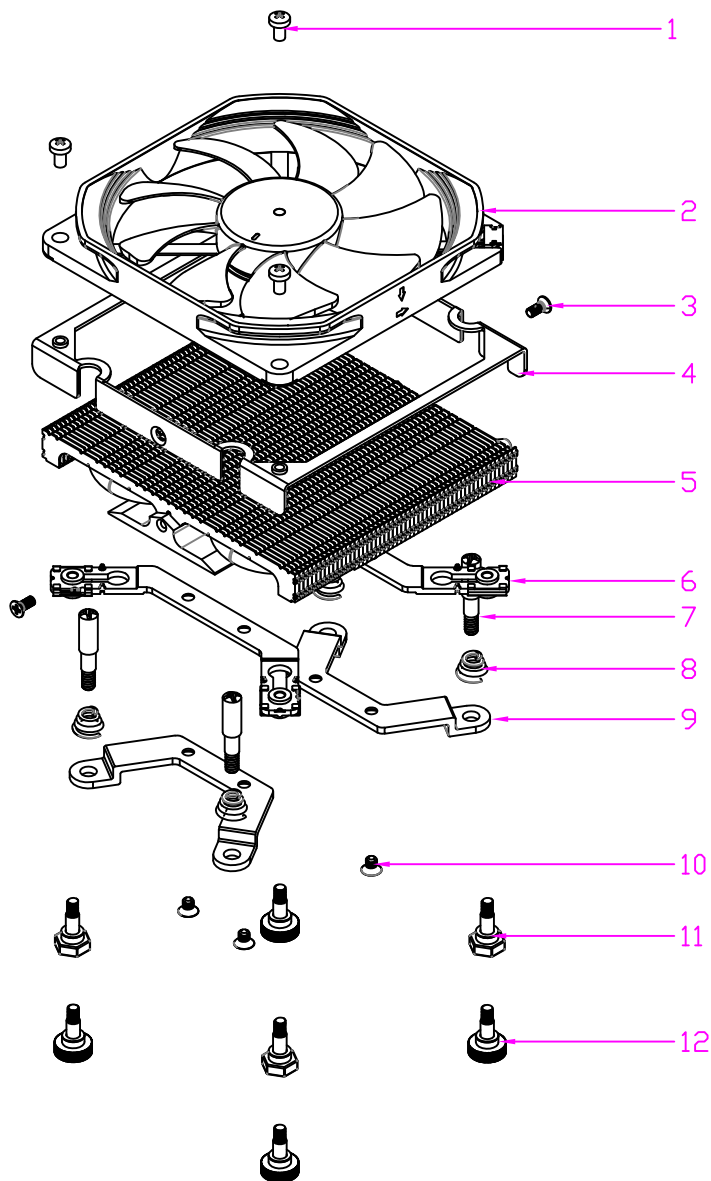
Socket AM5



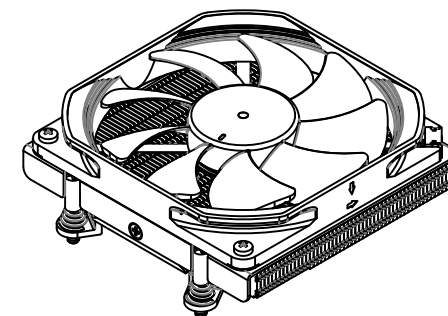
CONFIDENTIAL DOCUMENT

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	01/04/23
0.1	TIM UPDATE	Engr.	01/05/23



Intel Mode



AMD Mode

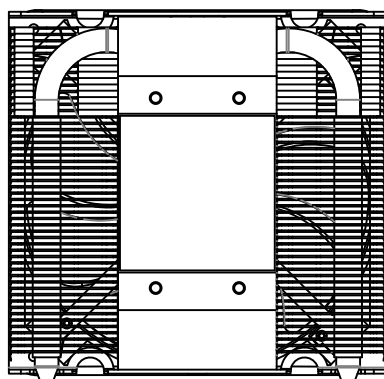
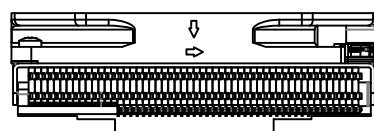
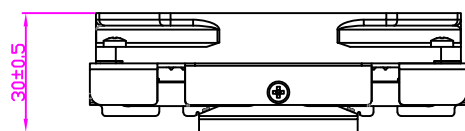
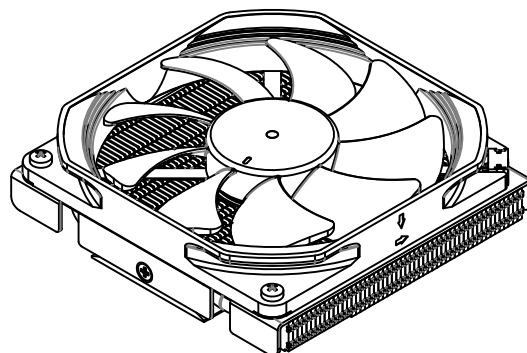
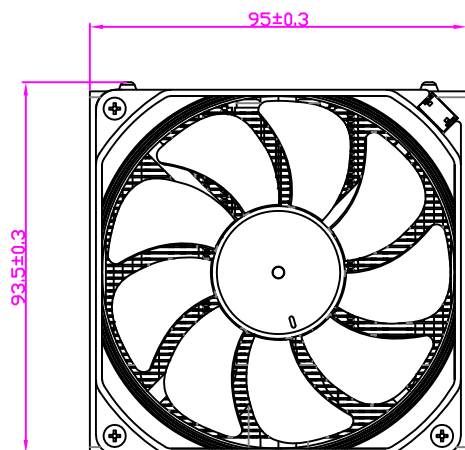
ITEM #	DESCRIPTION	MATERIAL	QTY.
12	INTEL 1700 SCREW	STEEL WITH INSULATOR	4
11	INTEL 115X SCREW	STEEL WITH INSULATOR	4
10	BRACKET INSTALLATION SCREW	STEEL	4
9	AMD BRACKET	STEEL	1
8	AMD SPRING	STEEL	4
7	AMD SCREW (U10)	6-32	4
6	INTEL BRACKET	STEEL	1
5	HEATSINK (U10)	ALUMINUM FINS, COPPER BASE, HEATPIPPES	1
4	FAN BRACKET (U10)	STEEL	1
3	FAN BRACKET SCREW	M2.5	2
2	FAN	9212	1
1	FAN INSTALLATION SCREW	M3	4

DATE		NAME	 DYNATRON CORPORATION
DRAWN		01/05/23	
CHECKED		01/05/23	
ENG. APPR.			
MFG. APPR.			
QA			TITLE: Active Air Cooler U10 BDM & Exploded Assembly Drawing
COMMENTS			
DWG. No:			REV
DYN-EP-U10			0.1

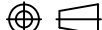
NOTES:

1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

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0.0	INITIAL RELEASE	Engr.	01/04/23
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	NAME	DATE	 DYNATRON CORPORATION			
DRAWN BY	ENGR	01/05/2023	TITLE: Active Air Cooler U10 Overall Dimension Drawing			
CHECKED BY	ENGR	01/05/2023				
ENG.APPROVED						
MFG.APPROVED	-	-				
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			UNITS	MM	DYN-DM-U10	0.1
1	2	3	4	5	6	7

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Document History:

07/27/2023: Thermal Performance Chart Update

01/05/2023: TIM update

01/04/2023: Initial release