



Q16

Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 08/26/2025

(the specification is subject to change without notice)

Q16 | Socket LGA1700

Model Number: Q16

- Recommend for Intel® CPU as following
 - Intel® Socket LGA 1851/1700 Processor
- Active Cooler for 1.5U Application & Up

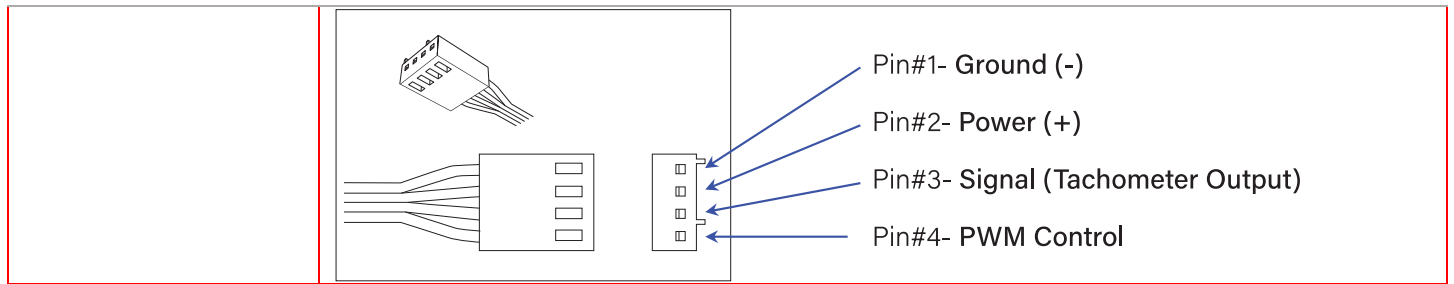
Overall Specification

Dimension	93.4 x 95.0 x 35.2 mm
Weight	412g (Fan + Heatsink)
Material	Copper Base & Aluminum Fins with Heat Pipe Embedded
Fan	92.0 x 92.0 x 12.0 mm Axial fan with PWM Function
Thermal Grease	Shin-Etsu 7762 or Equivalent (Syringe)
Max Power Support	135 W at 30° ambient temperature

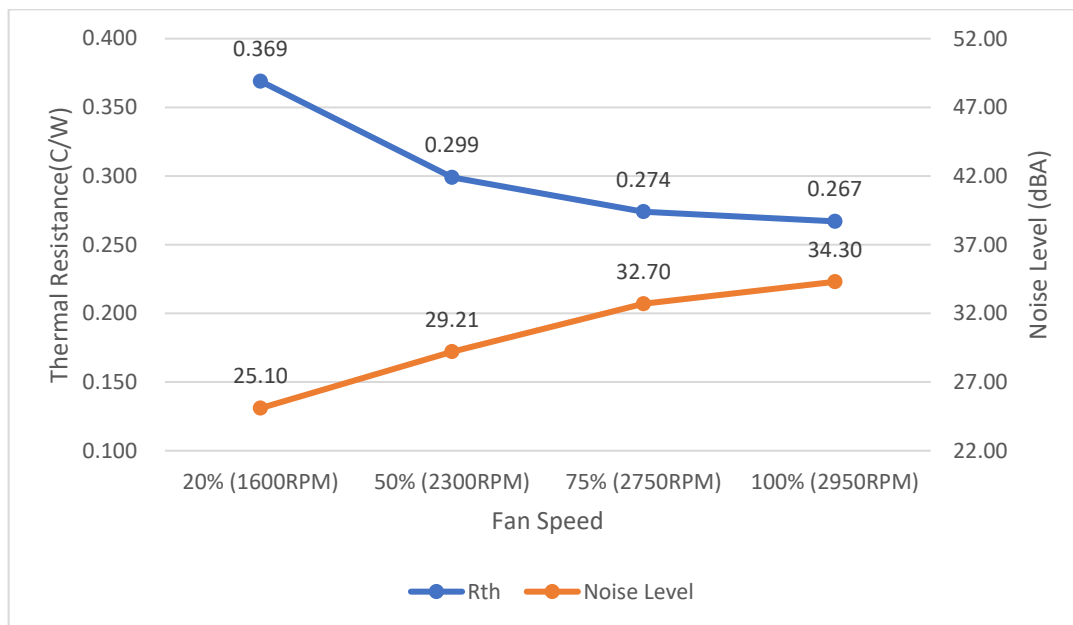
Cooling Fan Specification

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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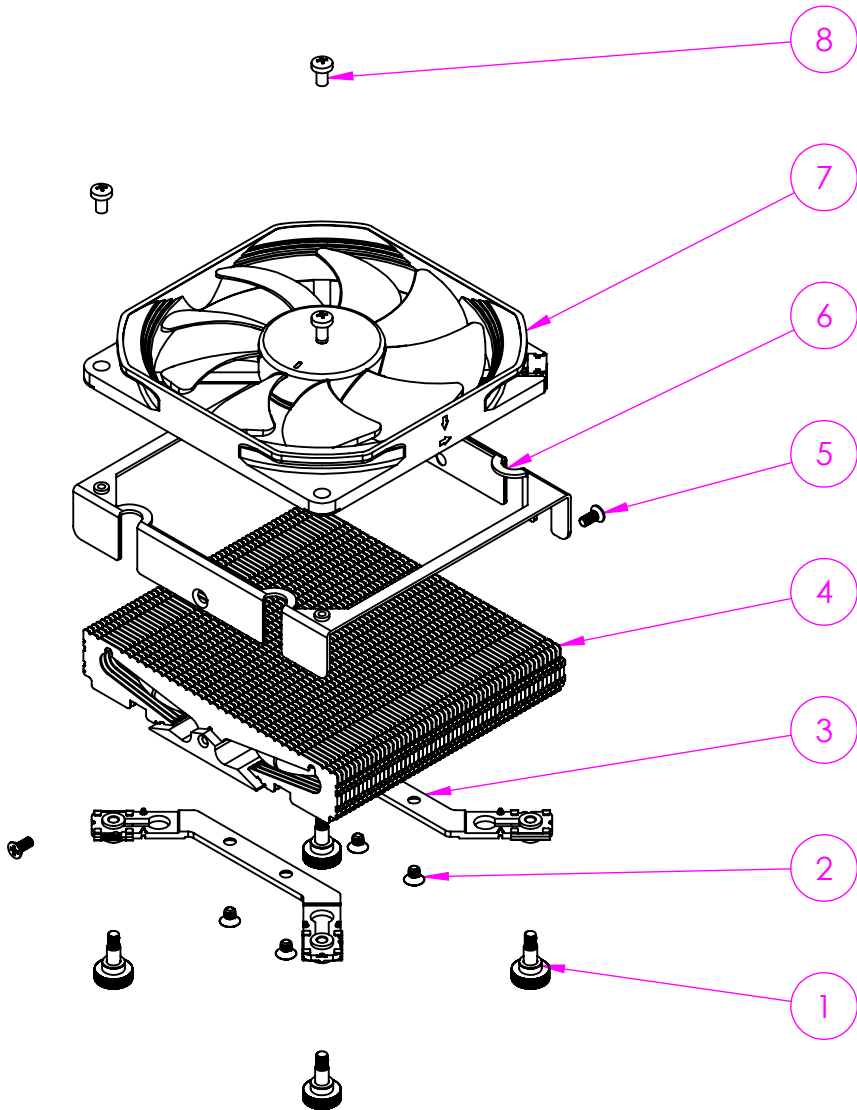
Performance Chart: Active Cooler Q16 Thermal Resistance Thermal Resistance vs. Fan Speed (Duty Cycle and RPM)



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CONFIDENTIAL DOCUMENT

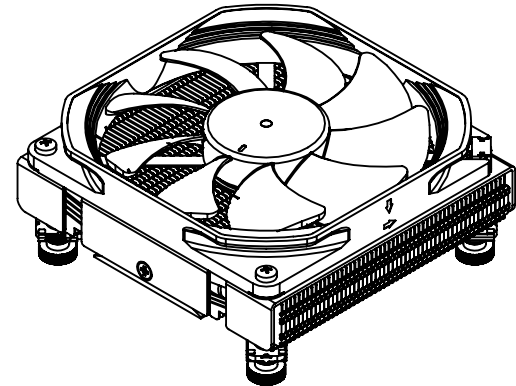
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NOTES:
THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	BELLA	8/26/2025



8	FAN INSTALLATION SCREW	STEEL, M3	4
7	FAN	9212	1
6	FAN BRACKET	STEEL	1
5	FAN BRACKET SCREW	STEEL, M2.5	2
4	HEATSINK	ALUMINUM FINS, COPPER BASE, HEATPIPER	1
3	INTEL BRACKET (PAIR)	STEEL	1
2	BRACKET INSTALLATION SCREW	STEEL	4
1	INTEL 1700 SCREW	STEEL WITH INSULATOR	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	DYNATRON CORPORATION	
DRAWN	8/26/2025	BELLA	TITLE: Active Air Cooler Q16 BOM & Exploded Assembly Drawing	
CHECKED	8/26/2025	BELLA		
ENG-APPR.				
MFG-APPR.				
COMMENTS:			DWG. NO. DYN-EP-Q16	REV 0.0

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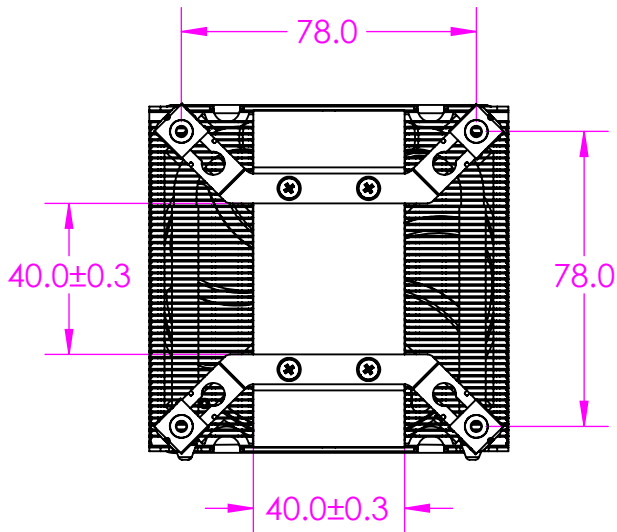
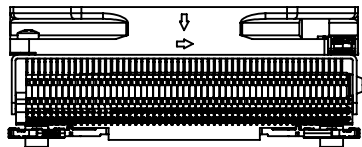
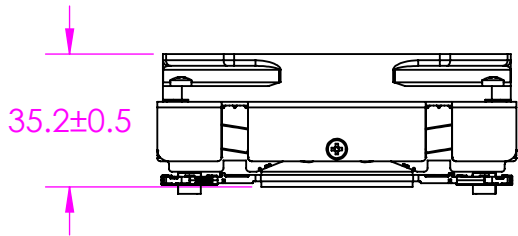
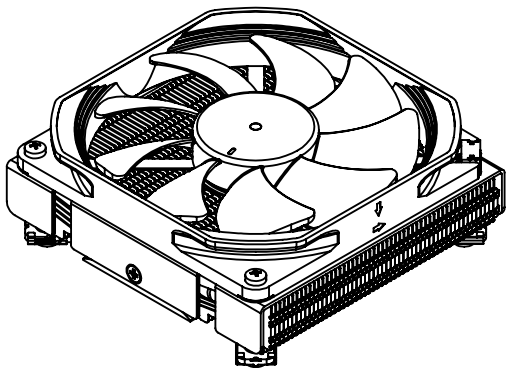
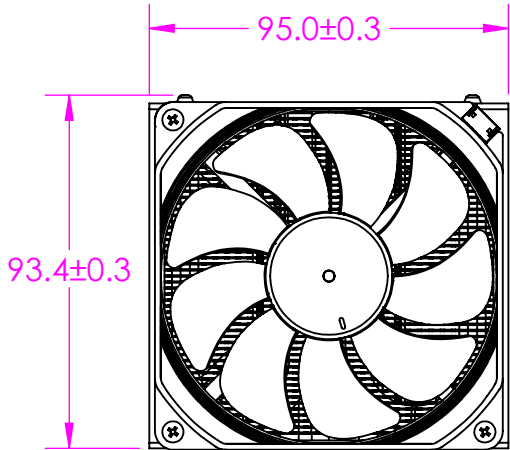
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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	BELLA	8/26/2025



NOTES:
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE
2. THE INTEL BRACKET IS PRE-INSTALLED AND ADJUSTED TO 78x78MM MOUNTING HOLE PITCH
3. INTEL 1700 M3 HEATSINK SCREW INSTALLATION TORQUE: 5-7 in-lb

	NAME	DATE
DRAWN BY	BELLA	8/26/2025
CHECKED BY	BELLA	8/26/2025
ENG.APPROVED		
MFG.APPROVED		

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DYNATRON CORPORATION

TITLE:

Active Air Cooler Q16
OVERALL DIMENSION DRAWING

VIEW		DWG. No:	REV.
UNITS	MM	DYN-DM-Q16	0.0

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Document History:

08/26/2025: Initial release