

W21

2U Active Air Cooler

PRODUCT SPECIFICATIONS

Speficiation Version: 12/31/2024

(Specifications are subject to change without notice)

W21 | LGA 5964**Model Number: W21**

- Recommend for LGA 5964 Processor
- Active Air Cooler for 2U Server and Up

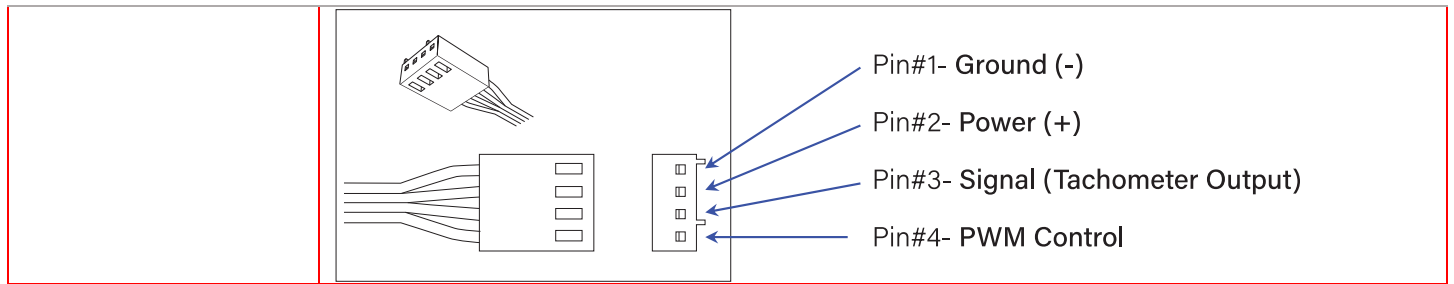
Overall Specification

Dimension	144.1 x 93.0 x 70.6 mm
Weight	744g $\pm$ 10g
Material	Aluminum + Copper Heatsink Base + Heatpipe + Aluminum Fins
Thermal Interface Material	Shin-Etsu X23-8079-2 (or equivalent) Pre-Printed Tflex HD7.5 (or equivalent) Pre-Applied
TDP	Fully Support 400W at 41°C Ambient Temperature

Cooling Fan Specification

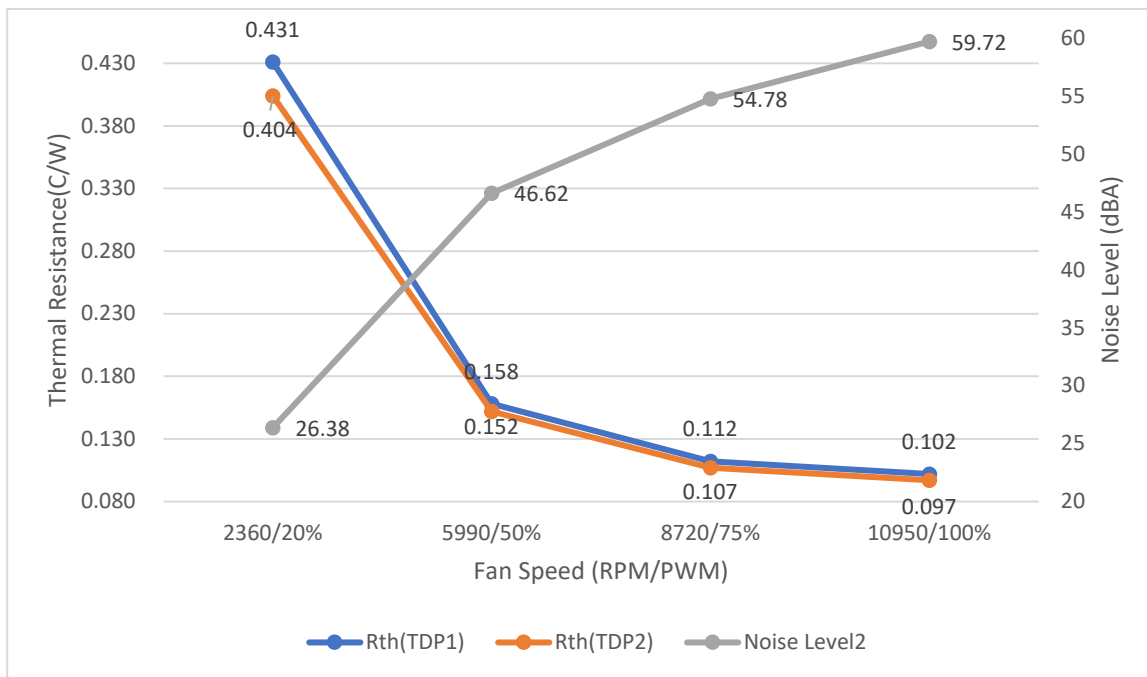
Model Number	DF126025BU - PWMH
Dimension	60 x 60 x 25 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2300 $\pm$ 10% RPM At Duty Cycle 50%: 5400 $\pm$ 10% RPM At Duty Cycle 100%: 11000 $\pm$ 10% RPM
Input Power	At Duty Cycle 0~20%: 0.84 W At Duty Cycle 50%: 2.76 W At Duty Cycle 100%: 18.0 W
Maximum Airflow	At Duty Cycle 0~20%: 11.91 CFM At Duty Cycle 50%: 28.38 CFM At Duty Cycle 100%: 58.31 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 1.48 mm-H ₂ O At Duty Cycle 50%: 7.54 mm-H ₂ O At Duty Cycle 100%: 28.8 mm-H ₂ O
Acoustical Noise	At Duty Cycle 0~20%: 25.8 dBA At Duty Cycle 50%: 44.4 dBA At Duty Cycle 100%: 59.8 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

W21 | LGA 5964



Performance Chart: W21 Thermal Resistance

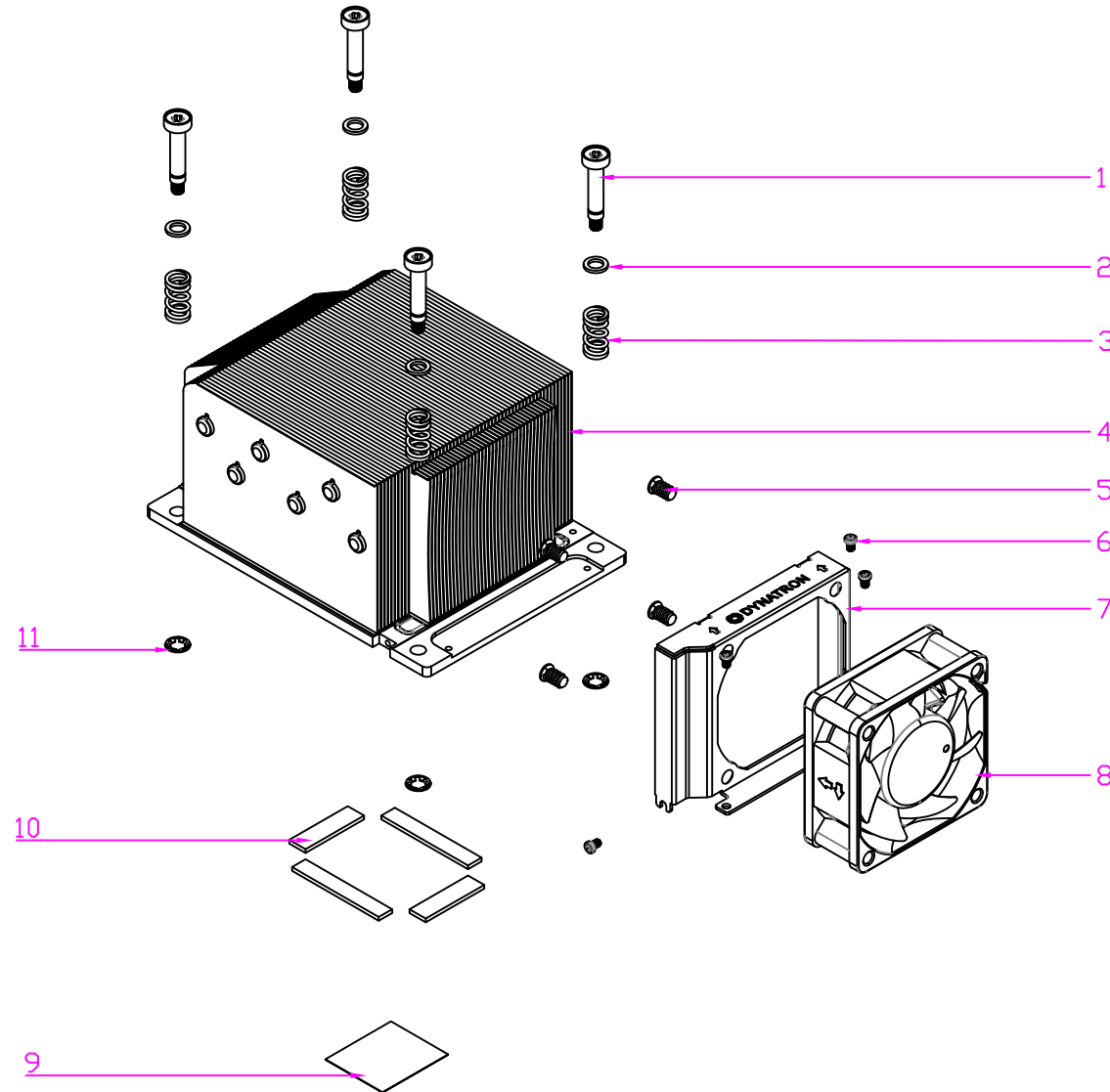
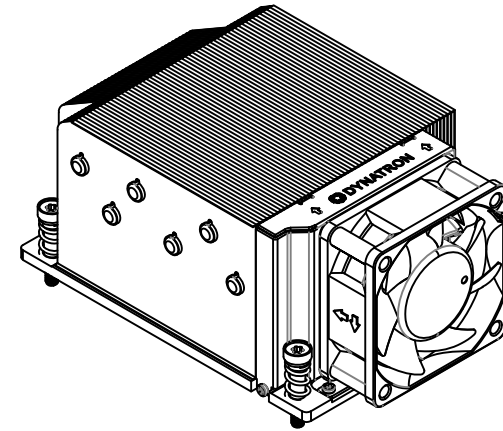
Thermal Resistance vs. Fan Speed



CONFIDENTIAL DOCUMENT

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	MichaelF	11/11/24

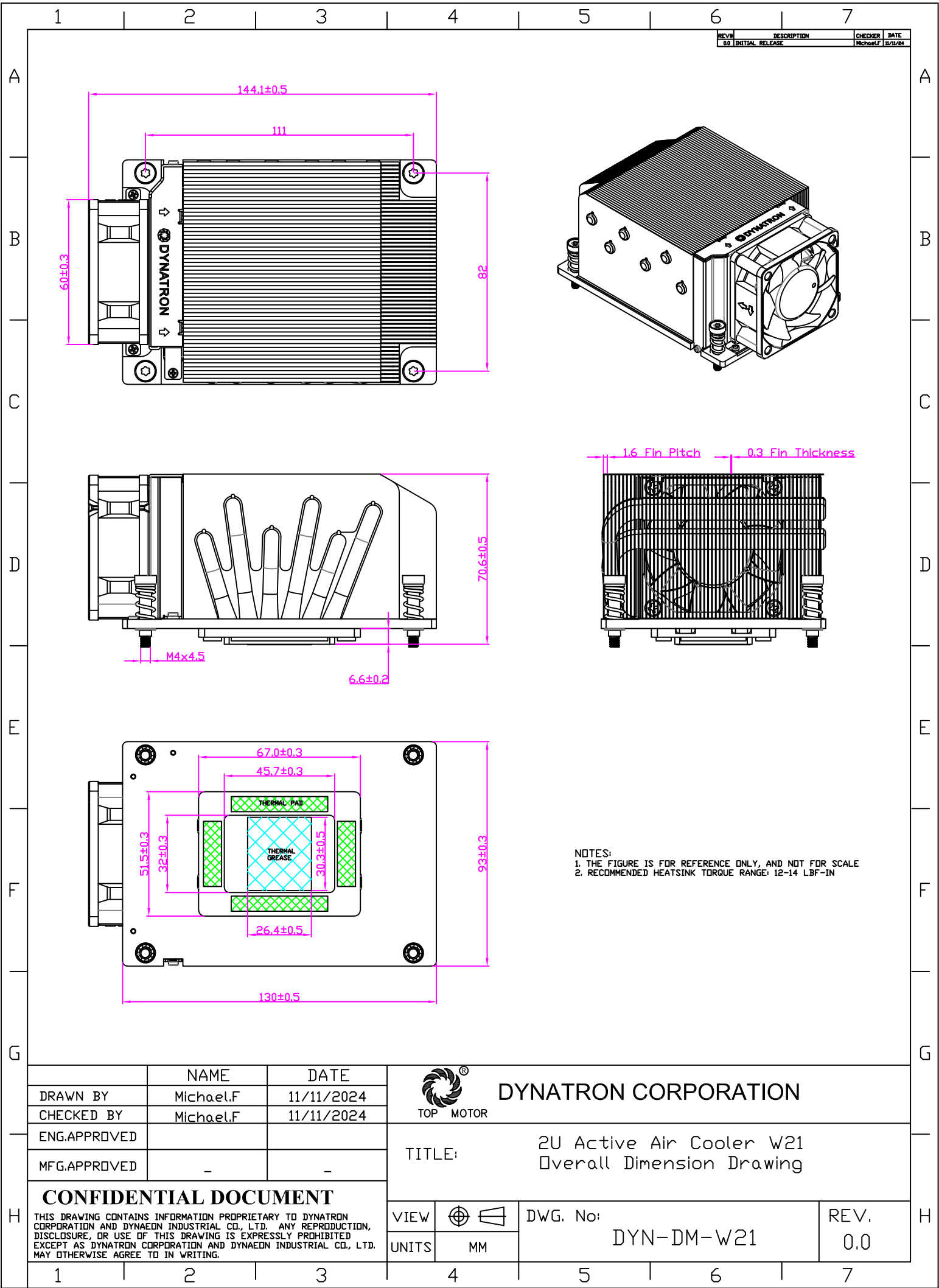


11	HEATSINK SCREW CLIP	STEEL	4
10	THERMAL PAD SET	TFLEX HD7.5 OR EQUIVALENT	1
9	THERMAL GREASE	SHIN-ETSU X-23-8079-2 OR EQUIVALENT	N/A
8	FAN, LE06250019 (6025-11000RPM)	PBT	1
7	FAN BRACKET	SPCC	1
6	FAN BRACKET MOUNTING SCREW	STEEL	4
5	FAN SCREW	STEEL	4
4	HEATSINK	HEAT PIPES, AL6063 BASE, CU100 BASE BLOCK, AL1100 FIN	1
3	HEATSINK SPRING	SWC	4
2	WASHER	STEEL	4
1	HEATSINK SCREW	STEEL	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION	
DRAWN	11/11/24	MichaelF	TITLE: 2U Active Air Cooler W21 BOM & Exploded Assembly Drawing	
CHECKED	11/11/24	MichaelF		
ENG. APPR.				
MFG. APPR.				
QA			DWG. No: DYN-EP-W21	
COMMENTS:				REV 0.0

NOTES:

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



Publication History:

12/31/2024: Thermal resistance vs. Fan Speed Release

11/11/2024: Initial Release

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