

N12

1U Active Air Cooler

PRODUCT SPECIFICATIONS

Model Number: N12

- Recommend for Intel® CPU as following
Intel® Ice Lake and Cooper Lake Server Processors, Socket FCLGA4189-4 / -5 (Socket P4 / P5 or P+)
- Active Cooler for 1U Server and up

Overall Specification

Dimension	113.0 x 80.6 x 27.4 mm
Weight	382g±10g
Material	Copper1100 Heatsink with Vapor Chamber Base
Mounting Method	Convenient Heat Sink Screw Captive Mounting
Package Carrier	PHM Package Carrier is included
Thermal Grease	SHIT-ETSU 7762 or Equivalent
TDP	Support CPU Power up to 205 Watts Heat Dissipation

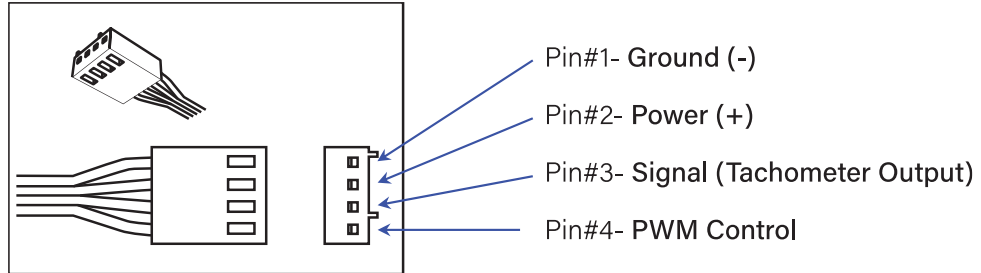
Cooling Fan Specification

Model Number	DB128013BU-PWMG
Dimension	φ80 x 13 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000± 200 RPM At Duty Cycle 50%: 4900± 10% RPM At Duty Cycle 100%: 8600 ± 10% RPM
Input Power	At Duty Cycle 0~20%: 1.08 W At Duty Cycle 50%: 4.70 W At Duty Cycle 100%: 23.45 W
Maximum Airflow	At Duty Cycle 0~20%: 5.59 CFM At Duty Cycle 50%: 14.76 CFM At Duty Cycle 100%: 26.25 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 3.69 mm-H2O At Duty Cycle 50%: 25.28 mm-H2O At Duty Cycle 100%: 89.8 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 23.3 dBA At Duty Cycle 50%: 43.5 dBA At Duty Cycle 100%: 62.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Black (+) Pin#3- Black (Tachometer/ Signal Output)

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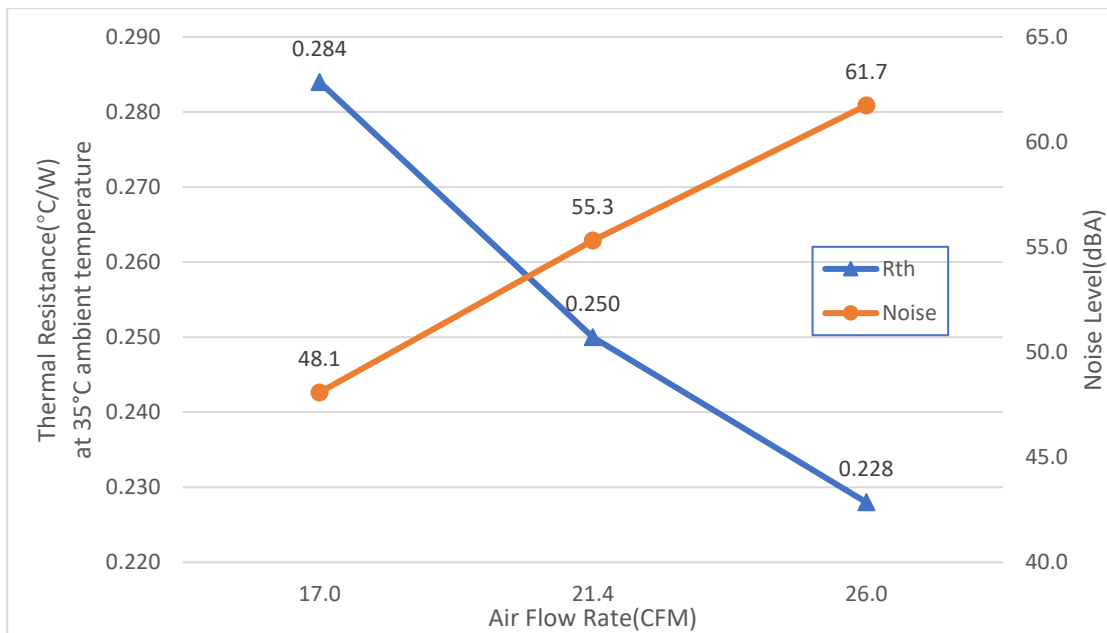
Pin#4- Black (PWM)

Lead Wire Pin Out Diagram :



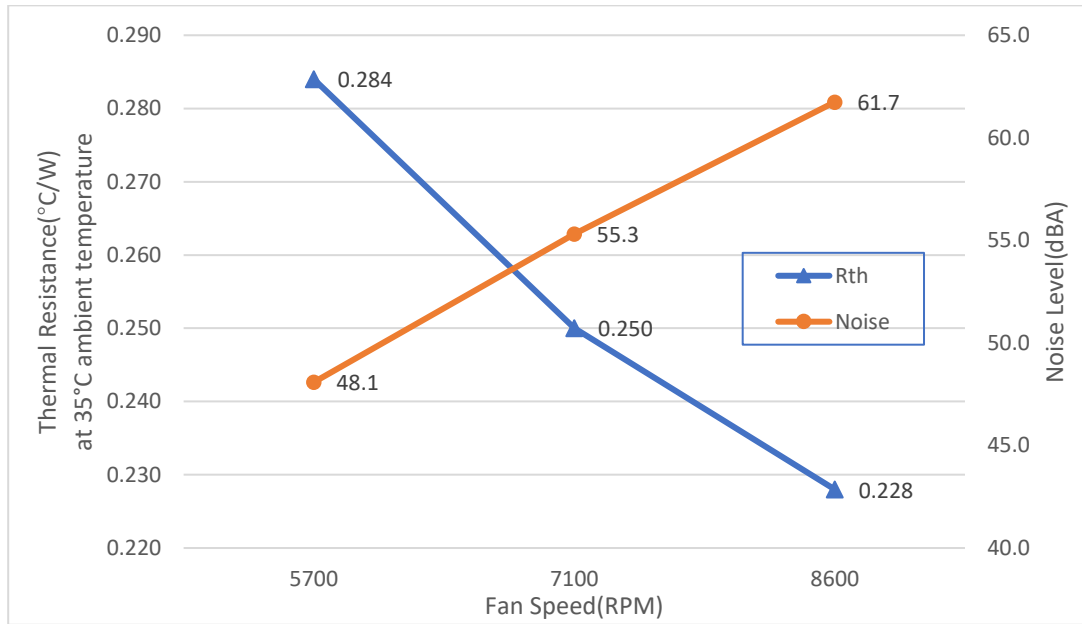
Performance Chart: Active Cooler N12 Thermal Resistance

Active Cooler N12 Cooling Performance vs. Airflow



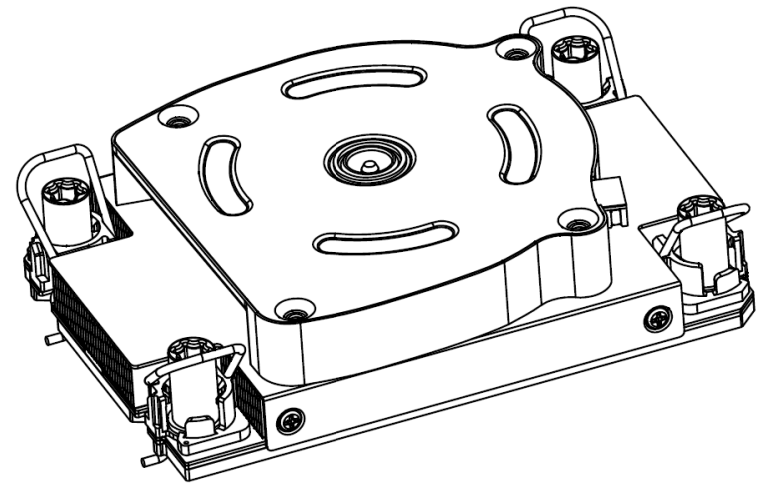
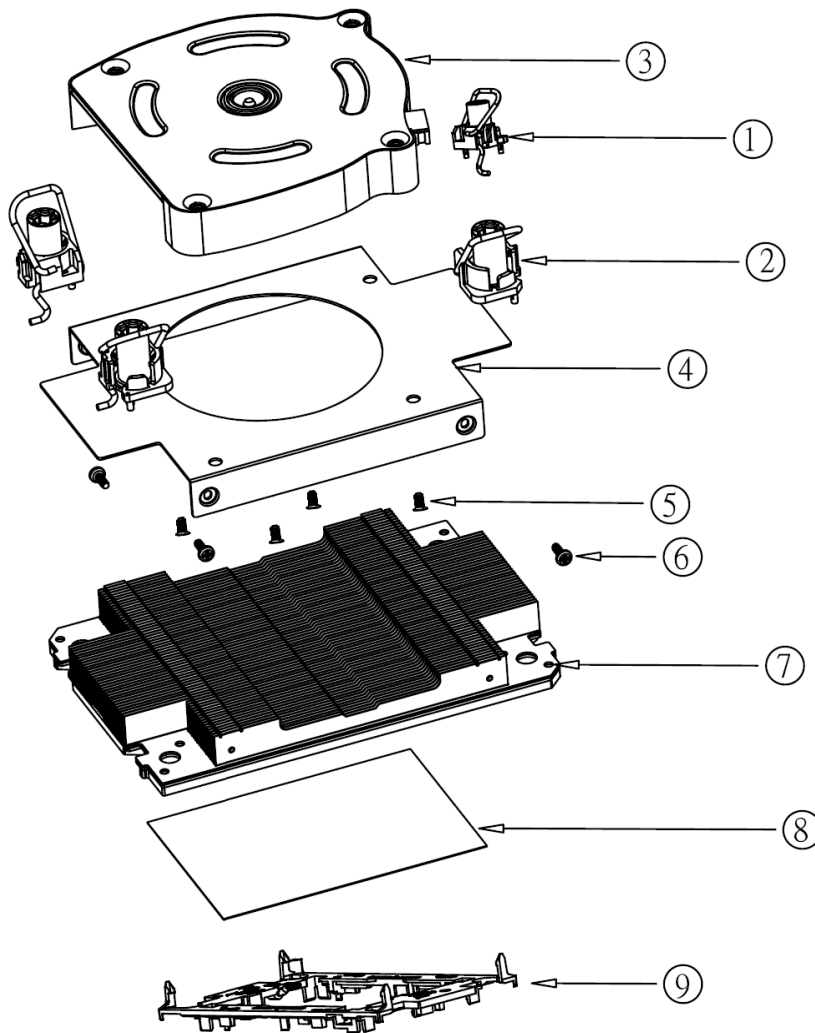
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Active Cooler N12 Cooling Performance vs. Fan Speed



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FILE NO.	ITEM#	DESCRIPTION	CHECKER
EP-527	01	首次发行	
	02		



3D VIEW

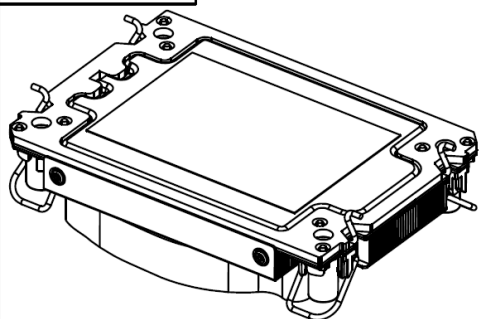
9	31301390	Intel package carrier	Plastic	1
8	30900120	Thermal Grease	Shin-Etsu 7762	1
7	50806660	Heat Sink	Cu	1
6	50901370	Screw For Heatsink	Steel	4
5	50902190	Screw For Fan	Steel	4
4	51302060	Fan Bracket	Steel	1
3	LE08130004	Fan DB 128013BU	Plastic	1
2	51000710	Anti-tilt rotating wire assembly set	Plastic nut and captiva ticion steel rorating wire	2
1	51000700	Anti-tilt rotating wire assembly set	Plastic nut and captiva ticion steel rorating wire	2
ITEM NO.	P/N NO.	DESCRIPTION	MATERIAL	QTY.

	NAME	DATE	 Top Motor Technology Co.,Ltd	
	DRAWN	2021.08.26	TITLE: Exploded Assembly Drawing N12	
	CHECKED			
	ENG.APPR.			
COMMENTS: N/A			DWG. NO. DYN-EP-N12_R0	REV. A

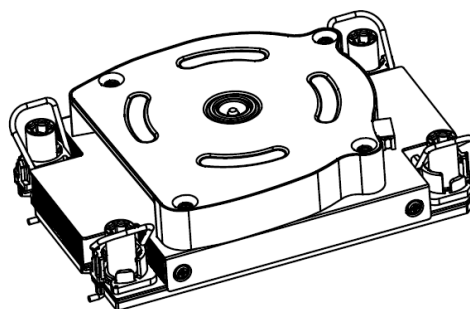
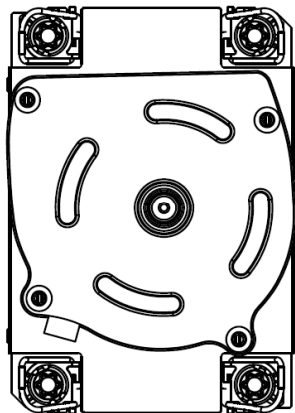
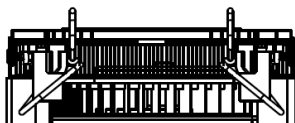
Note:

- 1.The figure is for reference only,and not for scale,
- 2.Over all dimension: 113.0x80.6x26.3mm,
- 3.Heat sink dimension: 113.0x80.5x12.8mm,

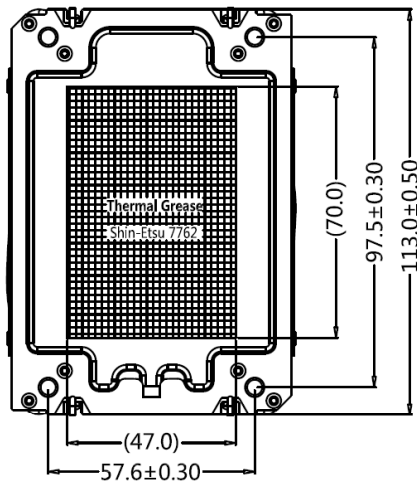
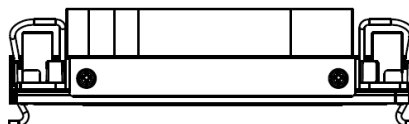
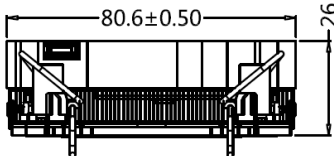
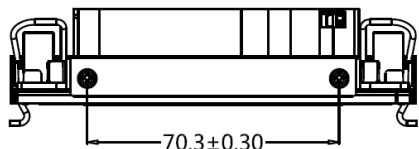
FileNo.:DM-527



3D VIEW



3D VIEW



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CHECKED BY		
ENG.APPROVED		



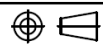
Top Motor Tecnology Co., Ltd

TITLE:

N12 Cooler Dimension

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