



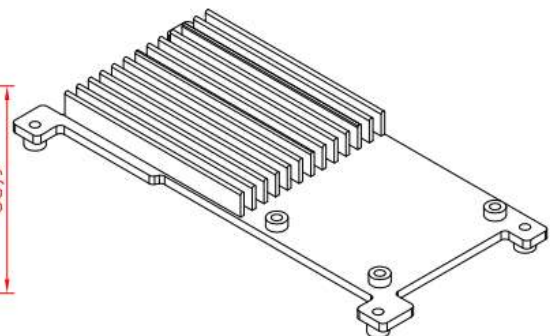
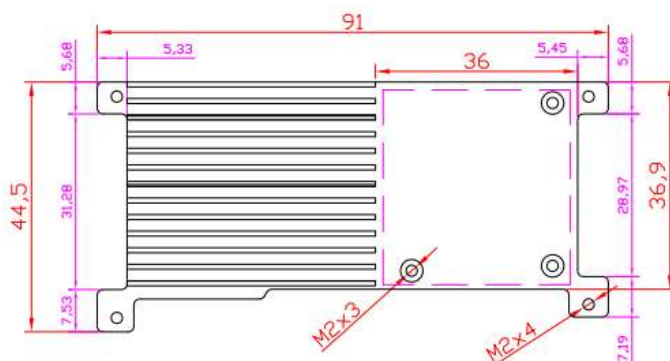
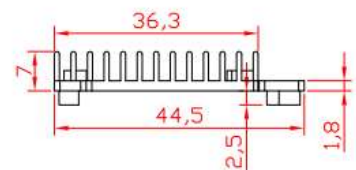
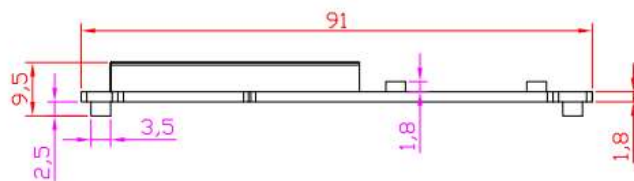
Sige Active Cooling Kit

The Sige Active Cooling Kit is a dedicated active cooling solution designed for the ArmSoM-Sige. It combines an aluminum heatsink with a temperature-controlled fan to keep your ArmSoM-Sige operating at a comfortable temperature even under heavy loads.

**TIP**

Please note that the Sige DIY Case 1 and the Sige Active Cooling Kit cannot be used together.

Heatsink

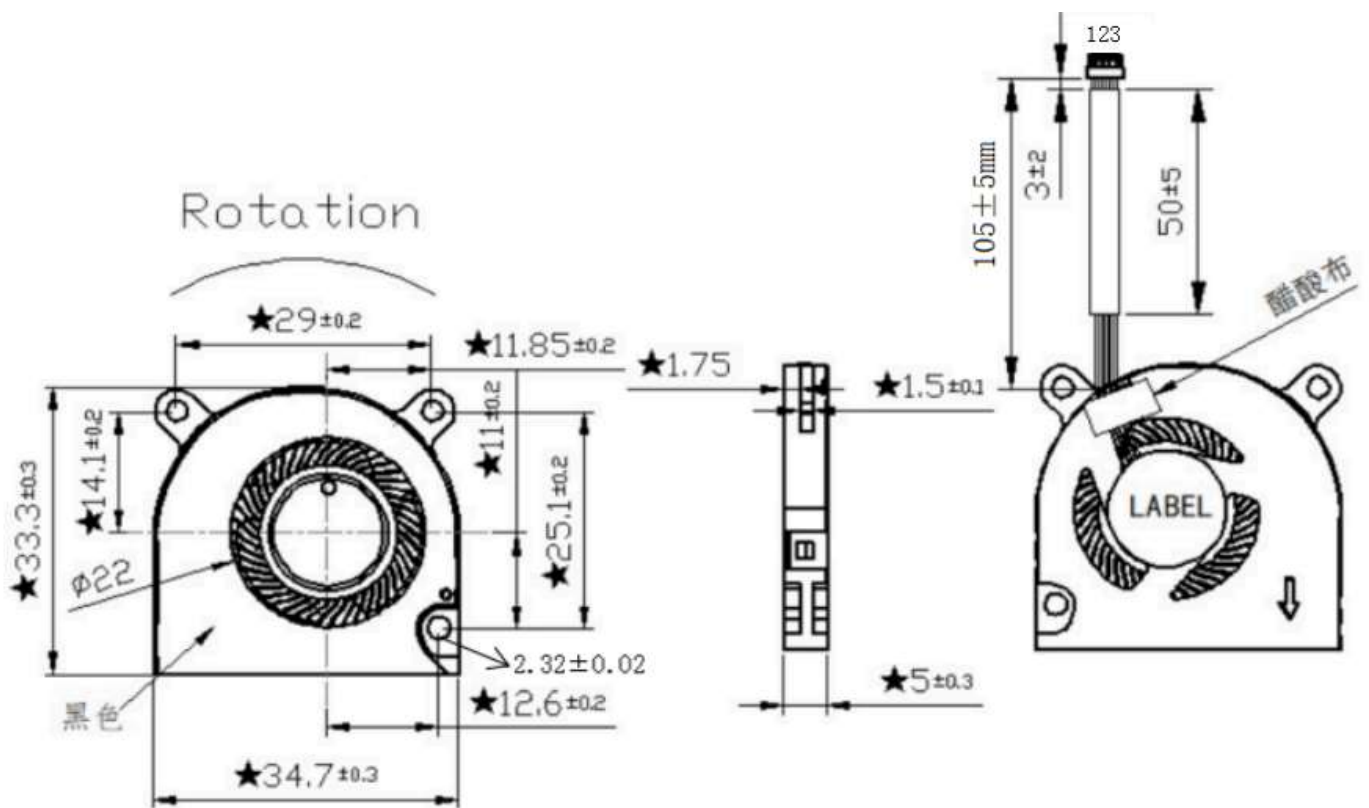


- Material: AL6063-T5
- Finish: Sandblasting + Oxidized Glossy Black

Compatibility

- Sige1 2mm Thermal Pad
- Sige3 2mm Thermal Pad
- Sige5 2mm Thermal Pad
- Sige7 1mm Thermal Pad

3505S Cooling Fan



Detailed Specifications

ITEM	SPECIFICATION/CONDITION
Bearing Type	Hydraulic
Rating Voltage	DC 5V

ITEM	SPECIFICATION/CONDITION
Rated Voltage	2.5~5.5 VDC
Start-Up Voltage	2.5 VDC (Temp 25°C)
Rated Current	310 mA (Max 340 mA)
Rated Speed	10000 RPM ±10%
Air Flow	2.0 CFM (Min 1.80 CFM)
	0.056 m³/MIN (Min 0.051 m³/MIN)
Static Pressure	26.75 mm-H2O (Min 21.67 mm-H2O)
	1.05 inch-H2O (Min 0.85 inch-H2O)
Noise Level	54 dB(A) (Max 56.5 dB(A))
Protection Type	
Resistance Protected	YES
Reverse Connect Protection	YES
Auto Start	NO
Tachometer Output	NO
Lock Rotor Alarm Output	NO
Pulse Width Modulation	YES
Signal Feedback	YES

ITEM	SPECIFICATION/CONDITION
Thermal Speed Controlled	NO
Connection Lead Type	UL10064 AWG#32, 105±5mm outside the frame, Red (Positive), Black (Negative), Blue (PWM Speed Control)
Housing	JST 04SUR-32S OR EQUIVALENT (Blue, Black, Red)
Label	DC5V-0.45A
Pin Terminal	NO

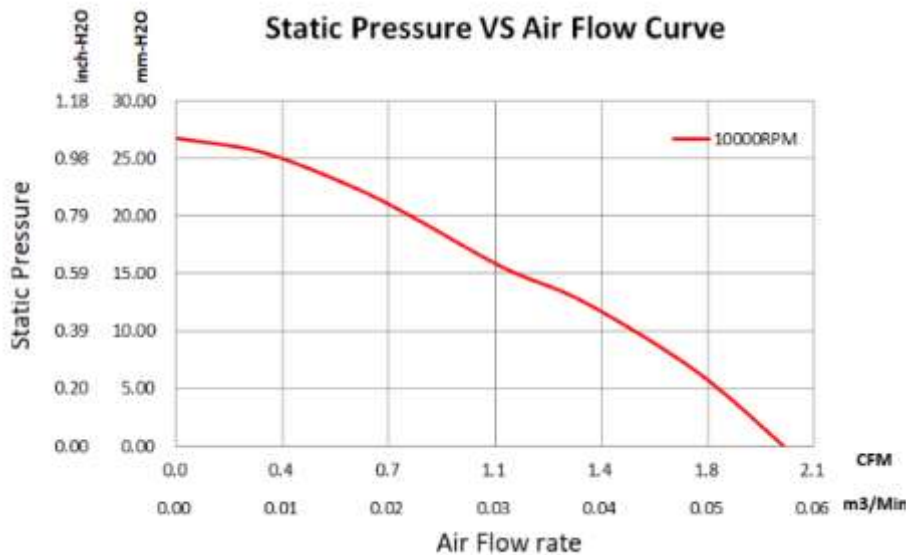
Average Lifespan

After continuous operation at a specified constant temperature, the average lifespan can be estimated if 90% of the units are still operational after testing.

Sleeve Bearing	Test Temperature	Test Time (hours)
Hydraumatic	25°C	33,000
Hydraumatic	40°C	25,000
Hydraumatic	60°C	20,000

Fan Static Pressure and Airflow Curves

NO	Duty Cycle	Speed (RPM)	Current (mA)	Pressure (mm-H2O)	Air Flow (CFM)	SPL (dB(A)) @ 0.1m
1	100%	10,000	310	26.75	2.0	54



Other Parameters

- Operating Temperature: Normal operation between -10°C to 50°C
- Storage Temperature: After storage at -20°C to 40°C for 500 hours, and a 24-hour recovery period at room temperature, all functions operate normally
- Humidity: 95% RH. After 96 hours of humidity testing at 40±2°C per MiL-STD-202F Standard 103B, insulation resistance and strength measurements meet 8.0 requirements.
- Wire Model LEAD WIRE: UL10064 AWG#32, external wire length 105±5mm
 - PIN 1: Blue Wire (BLUE WIRED) --- (PWM)
 - PIN 2: Black Wire (BLACK WIRED) --- (-)
 - PIN 3: Red Wire (RED WIRED) --- (+)

Documents



**armsom-active-
cooling-kit mechanical
drawing**

Assembly Instructions

ArmSoM YouTube Channel

Purchase Samples

ArmSoM online shop: <https://www.armsom.org/product-page/sige-active-cooling-kit>

ArmSoM Aliexpress online shop: <https://aliexpress.com/item/3256807357737339.html>

ArmSoM Taobao shop: <https://item.taobao.com/item.htm?id=824930133991>

OEM&ODM, please contact: sales@armsom.org

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