



Rev 1.00, 05/2024

VARISCITE LTD.

VHP-AM62 Heat Sink Kit For:
VAR-SOM-AM62



VARISCITE LTD.**VHP-VS-SP Heat Sink**

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1. Revision History

Revision	Date	Notes
1.00	May 30, 2024	Initial – Preliminary

2. Table of Content

1.	Revision History.....	3
2.	Table of Content.....	4
3.	Heat Sink Kit Content	5
4.	Heat Sink Assembly	5
5.	Contact Information.....	7

3. Heat Sink Kit Content

- 1 x Heat sink.
- 1 x Thermal pad - TG-A6200, precut to 20x20, 2mm thick.
Fits VAR-SOM-AM62
- 4 x Flat Head Phillips M2x10mm DIN965 SS screws (different screw types may be supplied).

4. Heat Sink Assembly

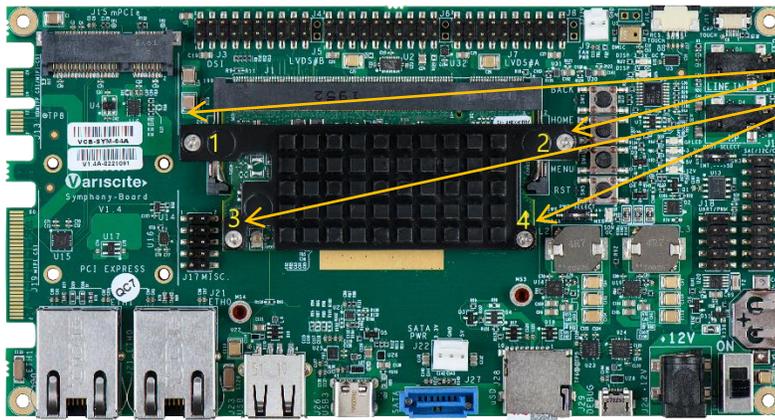
4.1

- 4.2 Attach the thermal pad on top of the AM62x processor located on the VAR-SOM-AM62.
Make sure that the two plastic covers, on both sides of thermal pads are removed before attaching the pad (Please see note under section 4.4 for thermal paste option).



Place for thermal pad on the AM62x processor
(Do not stretch the pad)

Assemble the heat sink on top side of the VAR-SOM-AM62.
Use the mechanical holes in order to align the heat sink to the VAR-SOM-AM62.



Heat sink alignment holes & screws

- 4.3 Insert the M2 screws to the heat sink holes.
- 4.4 Tight the heat sink to the VAR-SOM-AM62 using the supplied screws. Recommended torque for tightening the screws is ~1in-lb (~0.113N-m).

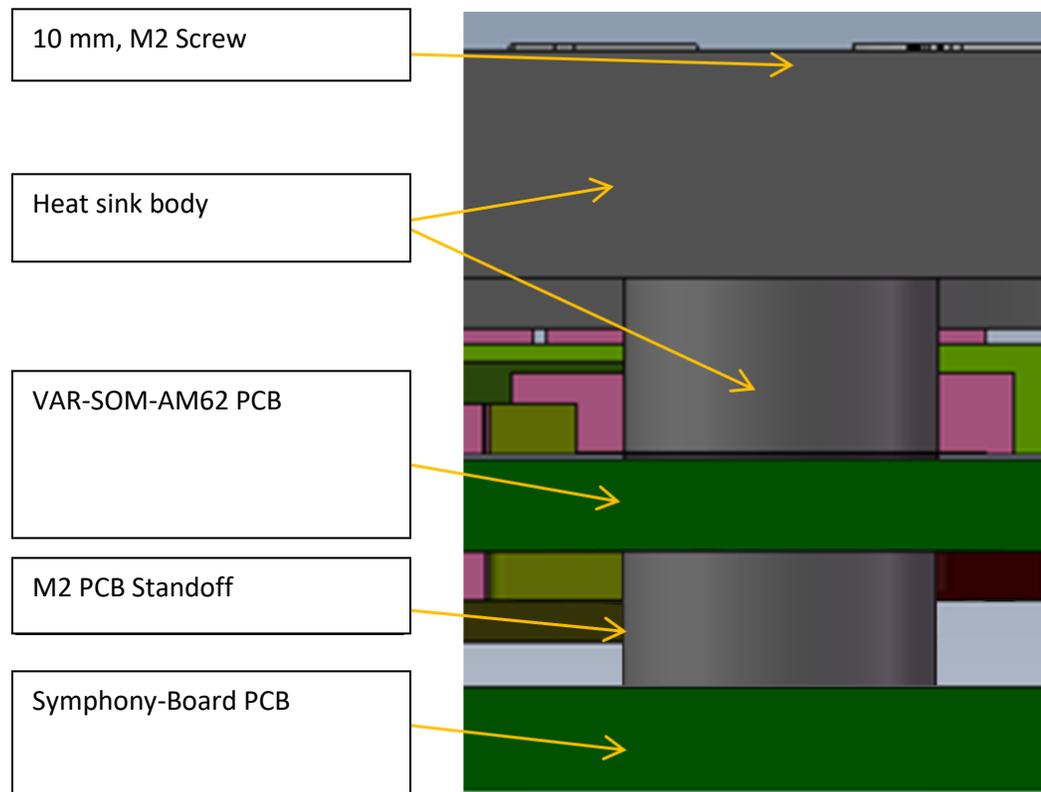
Note:

Due to tolerances of the related components (heat sink, thermal pad, PCB, AM62x processor) there might be a small gap between the heat sink and the PCB itself. It is highly recommended to do the following:

1. Press slightly the heat sink on top of the thermal pad in order to squeeze the thermal pad on the processor.
2. Tighten screws 1, 2.
3. Tighten screws 3, 4. Pay attention when tightening the last screw that there is no extra pressure on the PCB, which might cause it to deform.
4. If you see excessive pressure is applied, you should not tighten the screw all the way and use Loctite or similar glue to lock the screws.
5. Another alternative is to use thermal paste (grease) instead of thermal pad which bridges the gap between the processor and the heat sink. The thermal paste should have similar thermal conductivity as the thermal pad, 6.0 watt/m-k (by JIS R2618 / ASTM D2326 standard).

Heat Sink assembly sketch

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5.Contact Information

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