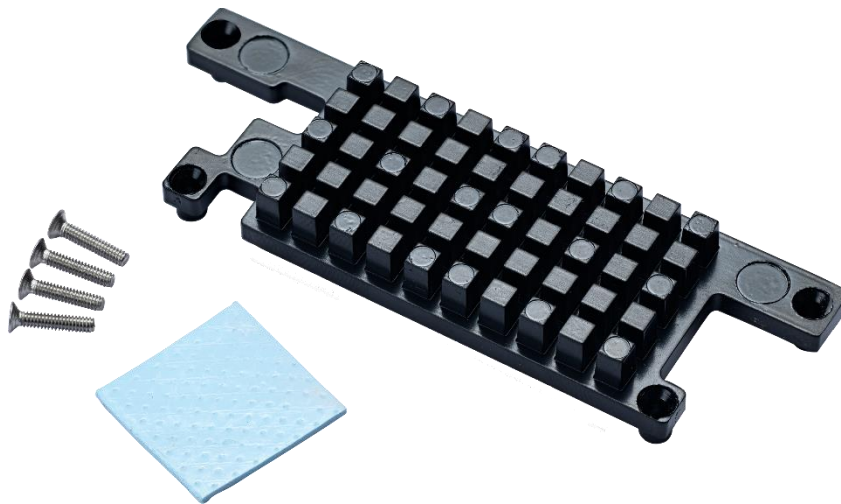




VARISCITE LTD

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



VARISCITE LTD.

VHP-VS-SP Heat Sink

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Variscite Ltd.
4, Hamelacha Street
Zip 7152008
Lod
ISRAEL
Tel: +972 (9) 9562910
Fax: +972 (9) 9589477

1. Revision History

Revision	Date	Notes
1.00	May 30, 2024	Initial – Preliminary

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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

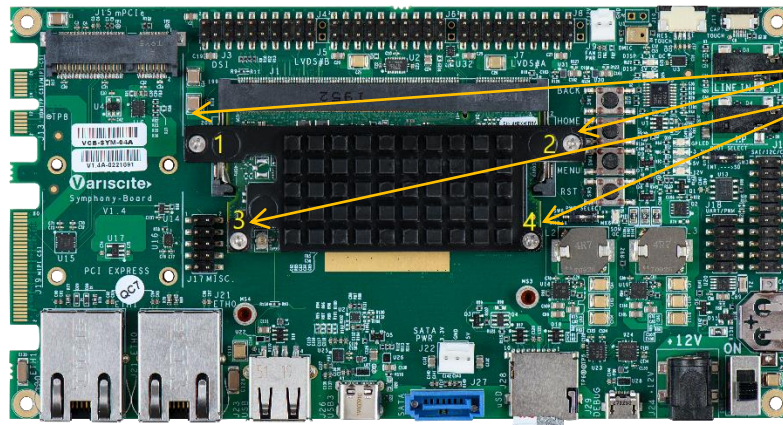
- 4.2 Attach the thermal pad on top of the AM62x processor located on the VAR-SOM-AM62.
Make sure that the two plastic covers, on both sides of thermal pads are removed before attaching the pad (Please see note under section 4.4 for thermal paste option).



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 $\sim 1\text{in-lb}$ ($\sim 0.113\text{N-m}$).

Note:

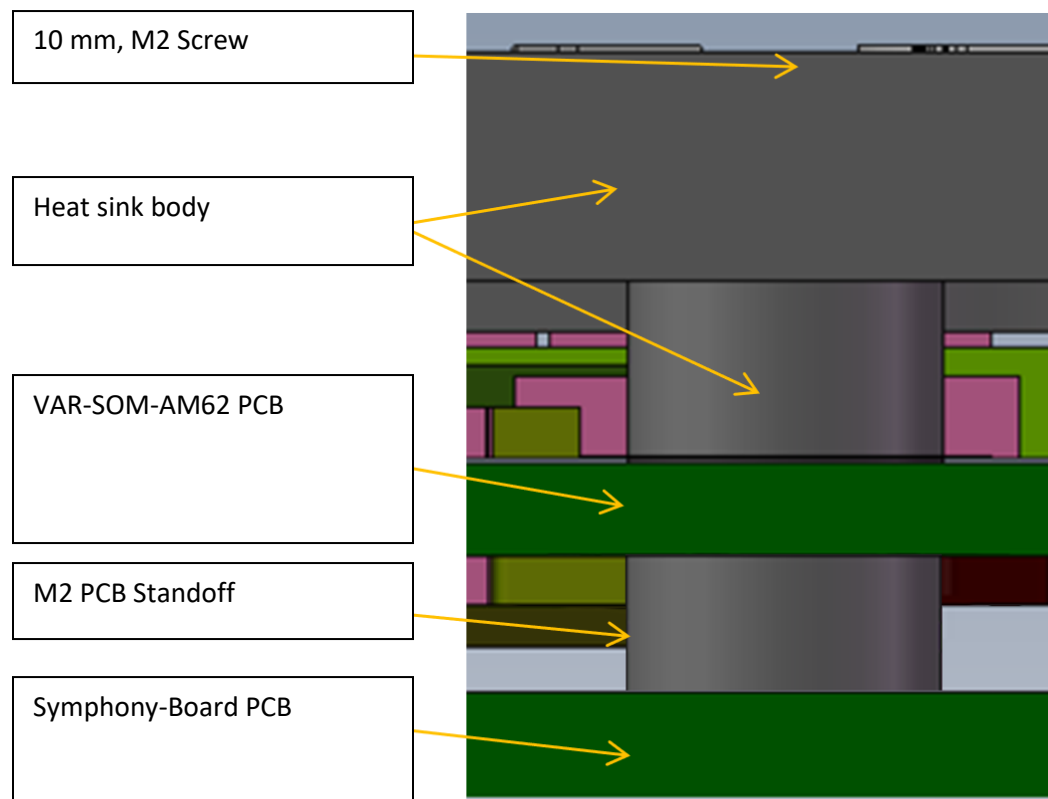
Due to tolerances of the related components (heat sink, thermal pad, PCB, AM62x processor) there might be a small gap between the heat sink and the PCB itself.

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

Headquarters:

Variscite Ltd.

4, Hamelacha Street

Zip 7152008

Lod

ISRAEL

Tel: +972 (9) 9562910

Fax: +972 (9) 9589477

Sales: sales@variscite.com

Technical Support: support@variscite.com

Corporate Website: www.variscite.com

