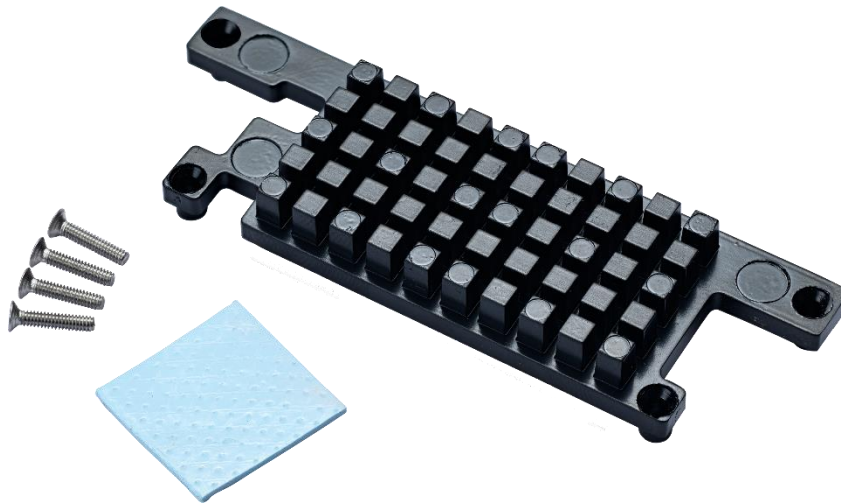




VARISCITE LTD

VHP-VS-SP Heat Sink Kit For:
VAR-SOM-MX93, VAR-SOM-MX8M-PLUS, VAR-SOM-MX8M-MINI, VAR-SOM-MX8M-NANO



VARISCITE LTD.

VHP-VS-SP Heat Sink

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1. Revision History

Revision	Date	Notes
1.00	Jun 06 2023	Initial – Preliminary
1.01	May 30, 2024	Removed VAR-SOM-AM62 from document, separate Kit/Document available for VAR-SOM-AM62 VHP-AM62

2. Table of Content

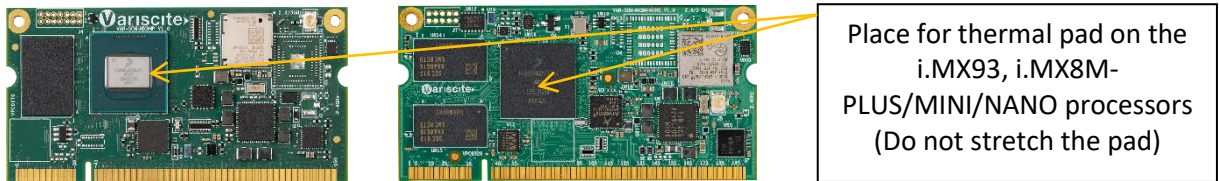
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3. Heat Sink Kit Content

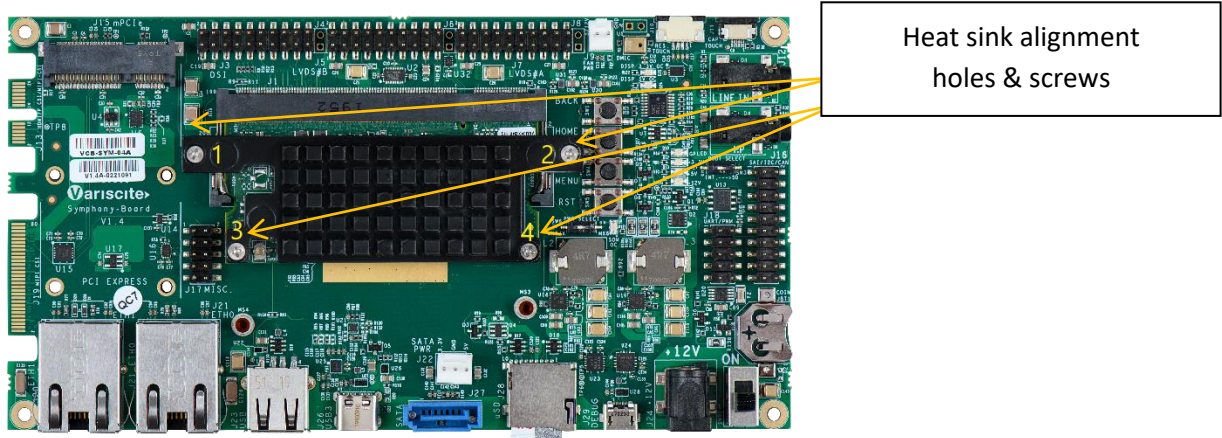
- 1 x Heat sink.
- 1 x Thermal pad - TG-A6200, precut to 20x20, 1.5mm thick.
Fits VAR-SOM-MX93 and VAR-SOM-MX8M-PLUS/MINI/NANO.
- 4 x Flat Head Phillips M2x10mm DIN965 SS screws (different screw types may be supplied).

4. Heat Sink Assembly

4.1 Attach the thermal pad on top of the i.MX93 and i.MX8M-PLUS/MINI/NANO processors located on the VAR-SOM-MX93, VAR-SOM-MX8M-PLUS/MINI/NANO.
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).



Assemble the heat sink on top side of the VAR-SOM-MX93 and VAR-SOM-MX8M-PLUS/MINI/NANO. Use the mechanical holes in order to align the heat sink to the VAR-SOM-MX93 and VAR-SOM-MX8M-PLUS/MINI/NANO.



- 4.2 Insert the M2 screws to the heat sink holes.
- 4.3 Tight the heat sink to the VAR-SOM-MX93 and VAR-SOM-MX8M-PLUS/MINI/NANO using the supplied screws. Recommended torque for tightening the screws is ~1in-lb (~0.113N-m).

Note:

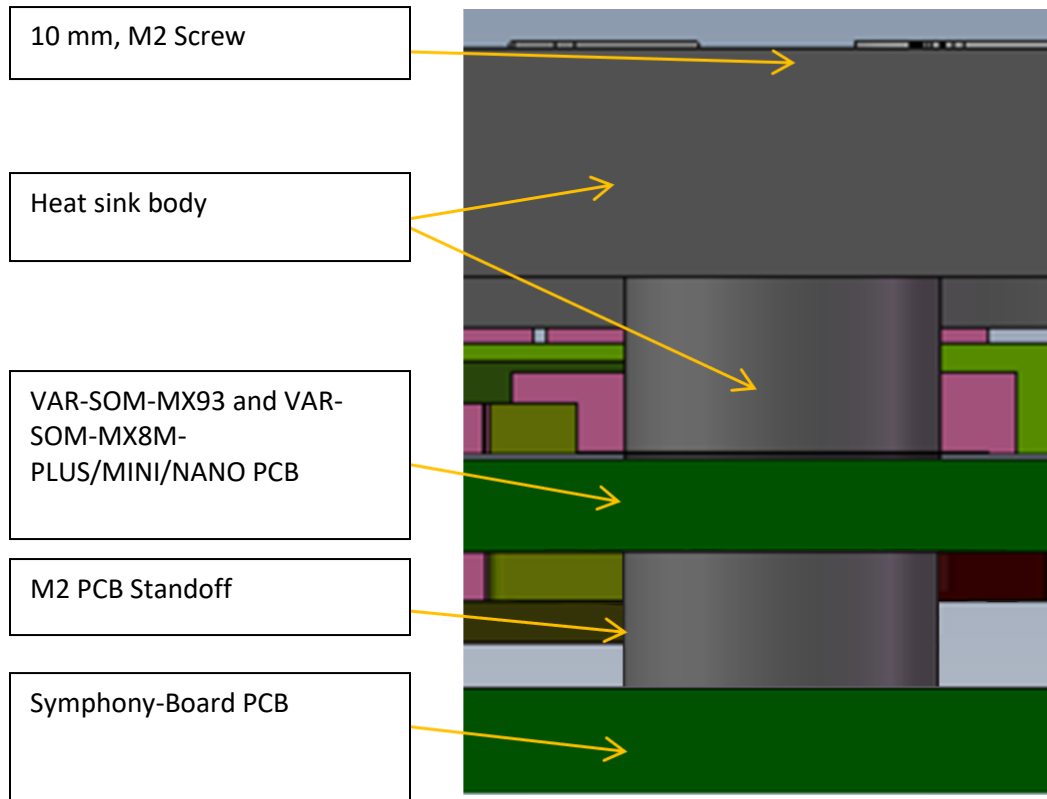
Due to tolerances of the related components (heat sink, thermal pad, PCB, i.MX8M processor) there might be a small gap between the heat sink and the PCB itself.

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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