

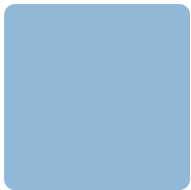
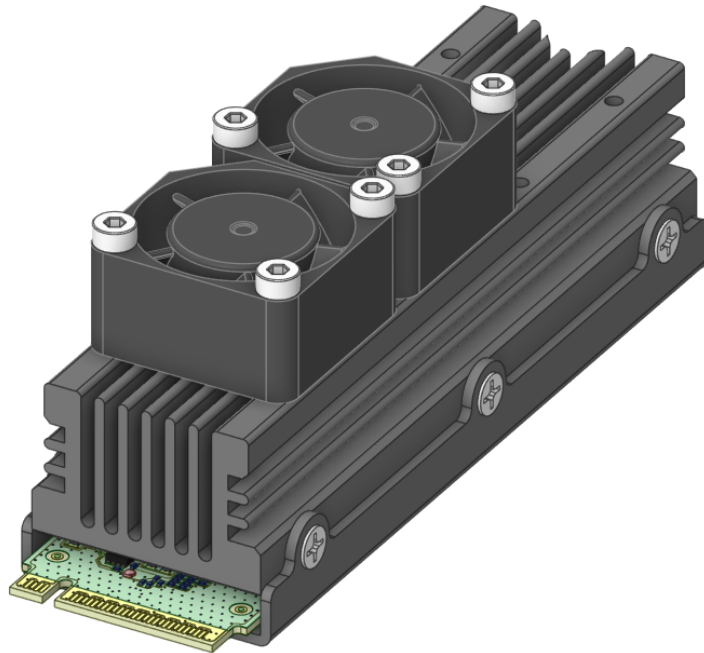
ADP-ARAM2 Heatsink

MHS.FSM2AI.1

Datasheet

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Systeme**

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About This Document

This document describes the individual components of article “MHS.FSM2AI.1” on a technical and thermal level for the ADP-ARAM2. The latest version of this document can be found at: www.fseembedded.com.

ESD Requirements



All F&S hardware products are electrostatic discharge (ESD) sensitive. All products are handled and packaged according to ESD guidelines. Please do not handle or store ESD sensitive material in ESD unsafe environments. Negligent handling will harm the product and warranty claims become void.

Review Service

F&S provide a schematic review service for your baseboard implementation. Please send your schematic as searchable PDF to support@fs-net.de.

History

Version	Date	Platform	Added (A) Removed (R) Modified (M)	Chapter	Description	Author
001/07.2026	21.07.2026 1.07.2026	-	-	All	Initial Version	TM

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1 Introduction

The ADP-ARAM2 Heatsink is a complete thermal cooling solution for the ADP-ARAM2 module.
For active cooling, there are twelve M2 threaded holes that allow mounting up to three 20 × 20mm fans.

2 Technical Specifications

2.1 Heatsink

Property		Unit	Remarks
Material	EN AW-6061	-	
Coating	Black anodized	-	
Thermal conductivity	170-200	W/m · K	@ 20°C
Weight	43	grams	Heatsink, Clamp and 6 M2 screws

Table 1: Heatsink technical specifications

2.2 Thermal Interface Material (TIM)

Property		Unit	Test Method	Remarks
Color	Gray	-	Visual	
Thermal conductivity	12.0	W/m · K	ASTM D5470	
Dielectric Strength	>7.0	kV/mm	ASTM D149	
Breakdown Voltage	>9.0	kV/mm	ASTM D149	
Volume Resistivity	1.0x10 ³	Ω · cm	ASTM D257	
Operation Temperature	-60.0 ~ 200.0	°C	-	
Hardness	45.0 - 70.0	Shore OO	ASTM D2240	

Table 2: TIM technical specifications

2.3 FAN

Property		Unit	Remarks
Dimensions	20x20x10	mm	
Rated voltage	5.0	V	
Startup voltage	3.5	V	
Current	0.3	A	± 0.02
Noise	37.3	dBA	
Speed	18000	RPM	± 20%
Operating temperature	-25°C .. +85°C	°C	
Durability	50000	Hours	@ 25°C / relative humidity 45-85%
Plastic Material	PBT 94V-0	-	

Table 3: FAN technical specifications

3 Mechanical Dimensions

3.1 Heatsink

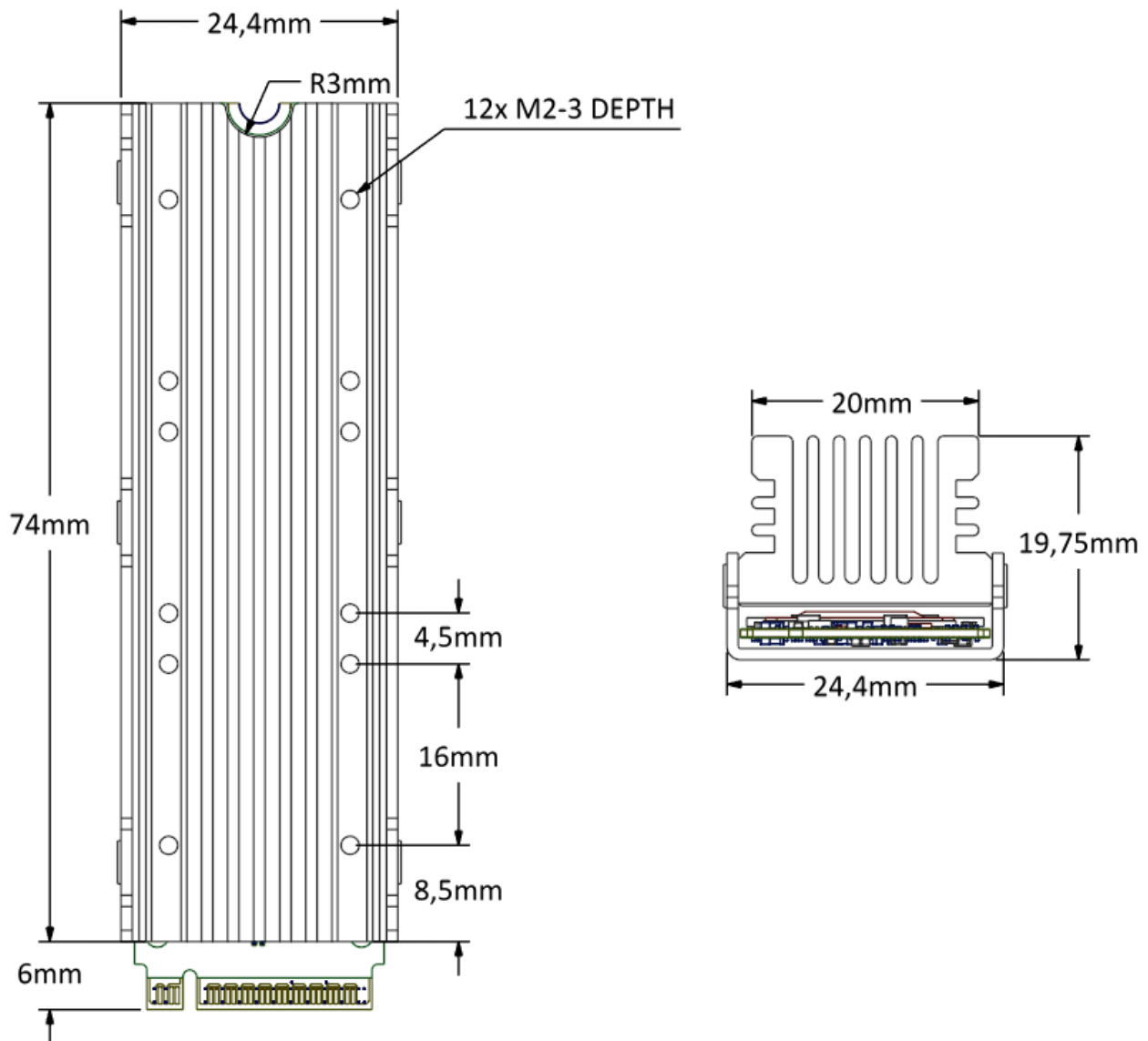


Figure 1: Mechanical Dimensions Heatsink

4 General Tolerances

General tolerances according to DIN ISO 2768-m

Nominal Length (mm)	Tolerance ($\pm$ mm)
0.5 – 3	0.1
>3 – 6	0.1
>6 – 30	0.2
>30 – 120	0.3
>120 – 400	0.5

5 Exploded view

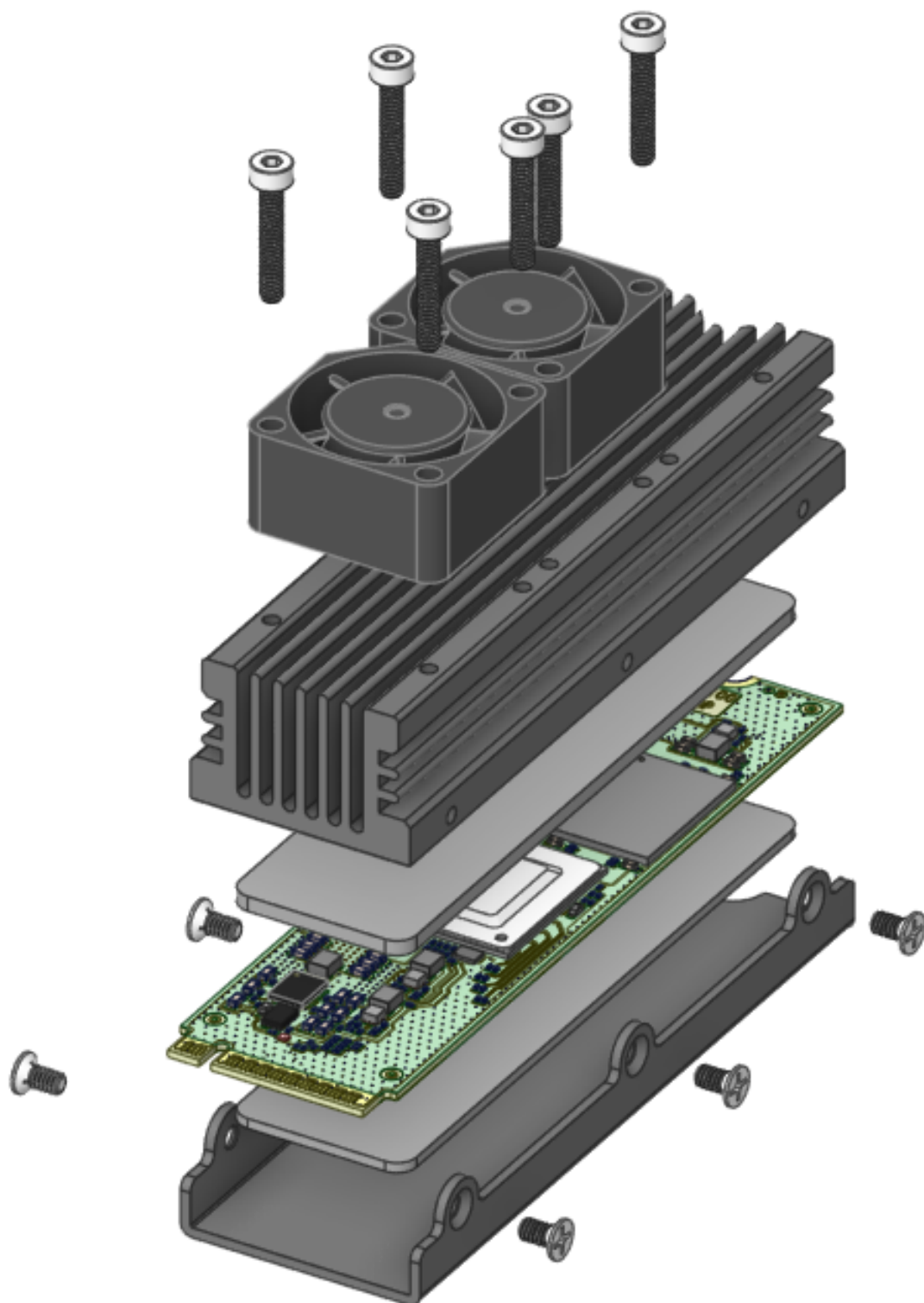


Figure 2: Exploded View

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6 Appendix

6.1 Second source rules

The qualifications of products from a second source are done autonomously by F&S. This is necessary to guarantee delivery times and product life. A setup of release samples with released second sources is not possible. F&S does not use broker components without the consent of the customer.

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