

Heat Sink for NVIDIA® Jetson Orin™ NX (Super Mode)



ATS Part#: **ATS-NVA2-3554-C3-R0**
Description: 57.5 x 40 x 23 mm high-performance active heat sink with leaf spring attachment
Component: NVIDIA Jetson Orin NX (Super Mode)
Heat Sink Type: Active heat sink (fan not included)
Heat Sink Attachment: Leaf spring with screws

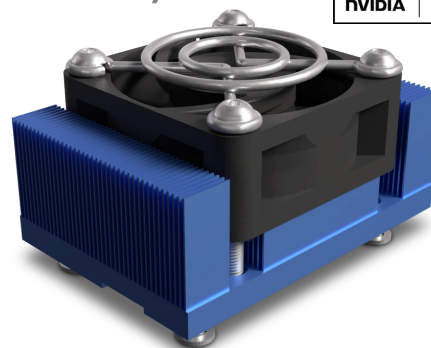


Image for illustration purposes only.

Features & Benefits

- » Designed to fit the NVIDIA® Jetson Orin™ NX module
- » Cooling capacity up to 40W - compatible with Orin NX Super Mode
- » Leaf spring with screws for mounting heat sink - see Fig. 1
- » Included mounting hardware kit: ATS-HK510-R1
(leaf spring with M2 x 9.2mm shoulder screws - drive: Torx T8)
- » Fan assembly hole pattern is 32.0mm C-C (center to center) - see Fig. 2
- » Included fan attachment kit: ATS-HK542-R0 (M3 x 25mm screws)
- » Fan not included - ATS recommended fans listed below
- » Provided with pre-assembled Thermal Interface Material (TIM) on base
- » Recommended through hole size in PCB is 3.20 mm (PCB thickness: 1.2 mm)



Fig. 1 - Leaf spring with screws for mounting heat sink

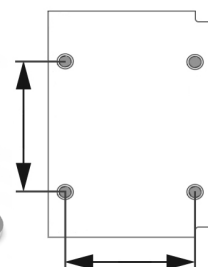


Fig. 2 - Measured dimensions of fan assembly hole pattern

Heat Sink Part Number	L (mm)	W (mm)	H (mm)	Thermal Resistance (°C/W)	Heat Sink Weight (g)	Thermal Interface Material
ATS-NVA2-3554-C3-R0	57.5	40	23 (31.7 with 15mm fan)	0.94	56	Chomerics T766

Recommended Fans

Part Number	Manufacturer	L (mm)	W (mm)	H (mm)	Voltage (VDC)	Air Flow (CFM)	Static Pressure (Pa)	Lead Wire
AFB0412SHB-F00	Delta	40	40	15	12	14.8 (0.42 m³/min)	149.7	3
9GA0412P7G001	Sanyo Denki	40	40	15	12	12.7 (0.36 m³/min)	192	4
PSD1204PHB1-A	Sunon	40	40	15	12	14.0 (0.40 m³/min)	156.9	2

Product Details

SCHEMATIC IMAGE	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	Dimension F	Material	Finish
	57.5	40 mm	23 mm	43.2 mm	28.8 mm	1.6 mm	Aluminum 6063	Blue Anodized

NOTES:

- 1) Fan not included. Fan type is specific to individual customer requirements and needs to be independently sourced.
- 2) Dimensions A and B refer to heat sink size.
- 3) Dimension C is the heat sink height from the bottom of the base to the top of the fin field.
- 4) Dimensions D and E refer to the mounting hole pattern C-C (center to center)
- 5) Dimension F refers to the mounting hole diameter
- 6) Thermal performance data are provided for reference only. Actual performance may vary by application.
- 7) ATS reserves the right to update or change its products without notice to improve the design or performance.
- 8) ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.
- 9) Contact ATS to learn about custom options available.

*All Images are for illustration purposes only.



ATS ADVANCED
THERMAL
SOLUTIONS, INC.
Innovation in Thermal Management®

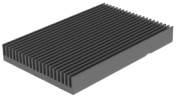
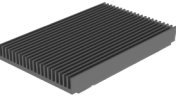
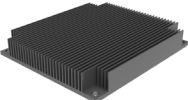
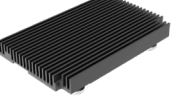
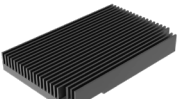
For further technical information, please contact Advanced Thermal Solutions, Inc.

89-27 ACCESS ROAD, NORWOOD, MA 02062 USA | T: 781.769. 2800 ATS-HQ@QATS.COM | WWW.QATS.COM

R1_0225

Heat Sinks for NVIDIA® Jetson™ Products



	NVIDIA Product	Heat Sink Part Number	L (mm)	W (mm)	H (mm)	Weight (g)	Thermal Resistance (°C/W at 200 LFM / 1 M/S)
	Jetson Nano™	ATS-NVA-2780-C1-R0	60	40	8	35.5	2.2
		ATS-NVP-2780-C2-R0	60	40	8	32.3	3.24
	Jetson Xavier™ NX	ATS-NVA-2781-C1-R0	60	40	8	36.8	1.6
		ATS-NVP-2781-C2-R0	60	40	8	34.2	2.55
	Jetson AGX Xavier™ Jetson AGX Orin™	ATS-NVA-3275-C4-R0	100	87	16	164.3	0.21
		ATS-NVP-3275-C5-R0	100	87	16	167.7	0.53
	Jetson Orin™ Nano Jetson Orin™ NX	ATS-NVA-3281-C1-R1	63	40	8	38.3	1.6
		ATS-NVP-3281-C2-R1	63	40	8	36.2	2.45
	Jetson™ TX2 NX	ATS-NVA-3353-C1-R2	63	40	8	37.4	1.7
		ATS-NVP-3353-C2-R2	63	40	8	34.3	2.57
	Jetson Orin™ NX (Super Mode)	ATS-NVA2-3554-C3-R0	57.5	40	23	56	0.94

R1_0225