Heat Sink for NVIDIA® Jetson Nano™

ATS Part#: ATS-NVA-2780-C1-R0
Description: 60 x 40 x 8 mm high-performance active heat sink with leaf spring attachment
Component: NVIDIA Jetson Nano
Heat Sink Type: Active heat sink (fan not included)
Heat Sink Attachment: Leaf spring with screws

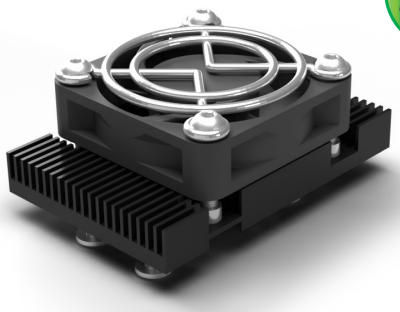


Image for illustration purposes only.

Features & Benefits

» Designed to fit the NVIDIA® Jetson Nano™ module
» Leaf spring with screws for mounting heat sink - see Fig. 1
» Included mounting hardware kit: ATS-HK511-R0
(leaf spring with M2 x 0.4mm shoulder screws - drive: Torx T8)
» Fan assembly hole pattern is 32.0mm C-C (center to center) - see Fig. 2
» Fan attachment kit: ATS-HK509-R0 (M3 x 18mm 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

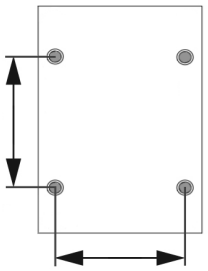


Fig. 2 - Measured dimensions of fan assembly hole pattern

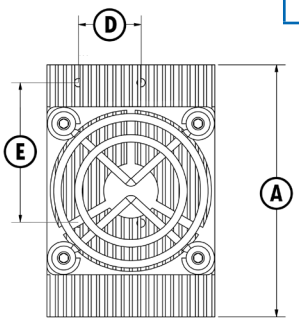
Heat Sink Part Number	L (mm)	W (mm)	H (mm)	Total Thermal Resistance (°C/W)	Heat Sink Weight (g)	Thermal Interface Material
ATS-NVA-2780-C1-R0	60	40	8	1.6	35.5	Chomerics T766

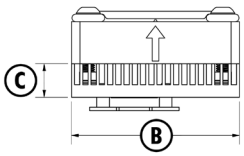
Recommended Fans

Part Number	Manufacturer	L (mm)	W (mm)	H (mm)	Voltage (VDC)	Air Flow (CFM)	Static Pressure (Pa)	Lead Wire
AFB0405HHA-A	Delta	40	40	10	5	8.2 (0.230m³/min)	47.3	Black (-), Red (+)
109P0412H901	Sanyo Denki	40	40	10	12	5.3 (0.148m³/min)	41.1	B (-), R (+), Y (Sensor)

Product Details

SCHEMATIC IMAGE	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	Material	Finish
	60 mm	40 mm	8 mm	14.9 mm	33.4 mm	Aluminum 6063	Black Anodized





*All Images are for illustration purposes only.

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) Thermal performance data are provided for reference only. Actual performance may vary by application.
6) ATS reserves the right to update or change its products without notice to improve the design or performance.
7) ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.
8) Contact ATS to learn about custom options available.

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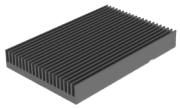
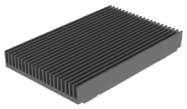
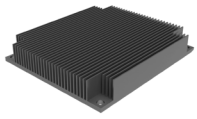
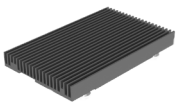
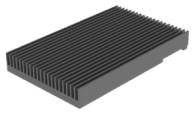
For further technical information, please contact Advanced Thermal Solutions, Inc.
89-27 ACCESS ROAD, NORWOOD, MA 02062 USA | T: 781.769. 2800 ATS-HQ@QATS.COM | WWW.QATS.COM

Heat Sinks for NVIDIA® Jetson™ Products

	NVIDIA® Product	Heat Sink Part Number	L (mm)	W (mm)	H (mm)	Weight (g)	Total Thermal Resistance
	Jetson Nano™	ATS-NVA-2780-C1-R0	60	40	8	35.5	1.6 °C/W
		ATS-NVP-2780-C2-R0	60	40	8	32.3	1.6 °C/W
	Jetson Xavier™ NX	ATS-NVA-2781-C1-R0	63	40	8	36.8	1.6 °C/W
		ATS-NVP-2781-C2-R0	63	40	8	34.2	1.6 °C/W
	Jetson AGX Xavier™ Jetson AGX Orin™	ATS-NVA-3275-C1-R0	100	87	16	164.3	0.21 °C/W
		ATS-NVP-3275-C3-R0	100	87	16	167.7	0.21 °C/W
	Jetson Orin Nano™ Jetson Orin™ NX	ATS-NVA-3281-C1-R0	63	40	8	38.3	1.6 °C/W
		ATS-NVP-3281-C2-R0	63	40	8	36.2	1.6 °C/W
	Jetson™ TX2 NX	ATS-NVA-3353-C1-R0	63	40	8	37.4	1.6 °C/W
		ATS-NVP-3353-C2-R0	63	40	8	34.3	1.6 °C/W

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