

HARDWARE KITS

For NVIDIA Jetson Heat Sinks

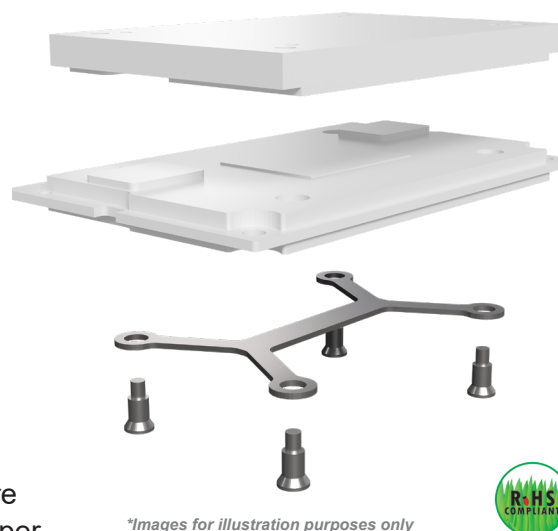


ATS provides a family of thermal hardware solutions designed to support NVIDIA® Jetson™ compute modules. These hardware kits ensure reliable heat dissipation, secure attachment, and optimized thermal interface performance for ATS heat sinks and thermal transfer plates.



FEATURES AND BENEFITS

- » Compatible with specific modules:
 - Jetson Nano™
 - Jetson TX2™ NX
 - Jetson Xavier™ NX
 - Jetson Orin™ NX & Orin Nano
- » Each kit includes: 1x leaf spring and 4x shoulder screws
- » Designed to work with ATS thermal solutions for NVIDIA Jetson
 - Heat sinks and thermal transfer plates (TTP)
- » Install using the recommended torque limit. Always use the hardware kit with an approved ATS heat sink or thermal transfer plate and proper thermal interface material. Do not mount the hardware kit directly to the Jetson module without a thermal solution in place.

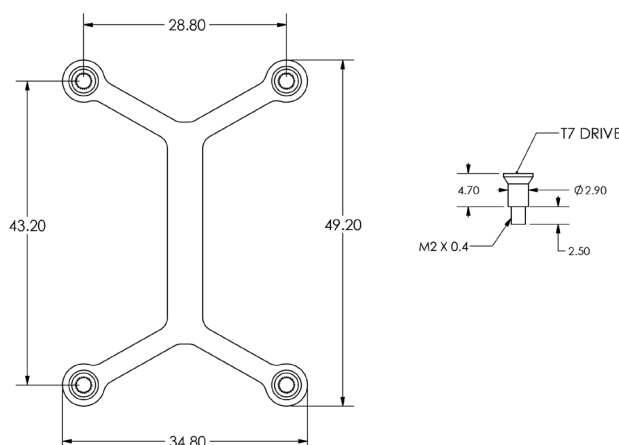


**Images for illustration purposes only*

Hardware Kit Part Number	Compatible NVIDIA Jetson Module	Dimensions (L x W x H)
ATS-HK510-R0	Xavier NX	49.2 x 34.8 x 0.8 mm
ATS-HK510-R1	Orin Nano & Orin NX	49.2 x 34.8 x 0.8 mm
ATS-HK511-R0	Nano	39.8 x 21.3 x 0.8 mm
ATS-HK513-R1	TX2 NX	29 x 29 x 0.8 mm

ATS-HK510-R0

Compatible NVIDIA Module	Jetson Xavier NX
What's Included	1 x Leaf Spring, 4 x Shoulder Screws
Leaf Spring Dimensions (L x W x H)	49.2 x 34.8 x 0.8 mm
Mounting Pattern (C/C)	43.2 x 28.8 mm
Screw Specification	M2 x 0.4 x 2.5 mm, T7 drive, Ø2.9 head, 4.7 head height
Recommended Torque	< 0.25 N·m
Weight	4 g
Leaf Spring Material	Stainless Steel
Compatible ATS Solutions	ATS-NVA-2781-C1-R0 (Heat Sink) ATS-NVP-2781-C2-R0 (Heat Sink) ATS-NVP-3725-C1-R0 (TTP)
RoHS Compliant	Yes



Unless otherwise specified, dimensions are in millimeters. Drawing dimensions are for reference only.

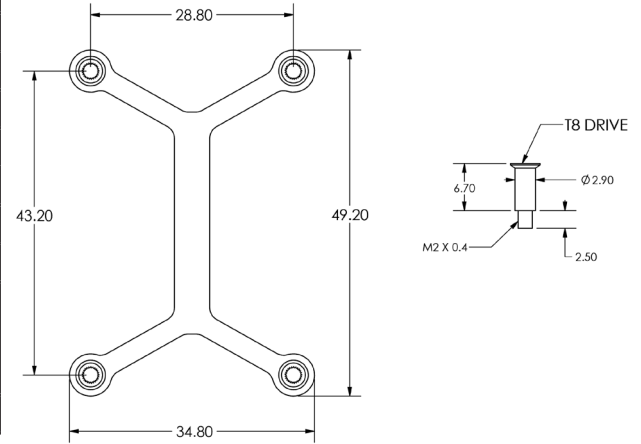
HARDWARE KITS

For NVIDIA Jetson Heat Sinks



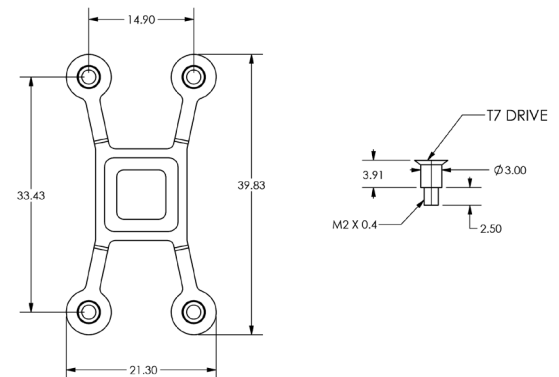
ATS-HK510-R1

Compatible NVIDIA Module	Jetson Orin Nano & Orin NX
What's Included	1 x Leaf Spring, 4 x Shoulder Screws
Leaf Spring Dimensions (L x W x H)	49.2 x 34.8 x 0.8 mm
Mounting Pattern (C/C)	43.2 x 28.8 mm
Screw Specification	M2 x 0.4 x 2.5 mm, T8 drive, Ø2.9 head, 6.7 head height
Recommended Torque	< 0.25 N·m
Weight	4 g
Leaf Spring Material	Stainless Steel
Compatible ATS Solutions	ATS-NVA-3281-C1-R1 (Heat Sink) ATS-NVP-3281-C2-R1 (Heat Sink) ATS-NVP-3681-C1-R1 (TTP) ATS-NVA2-3554-C3-R0 (Heat Sink for Orin NX Super Mode)
RoHS Compliant	Yes



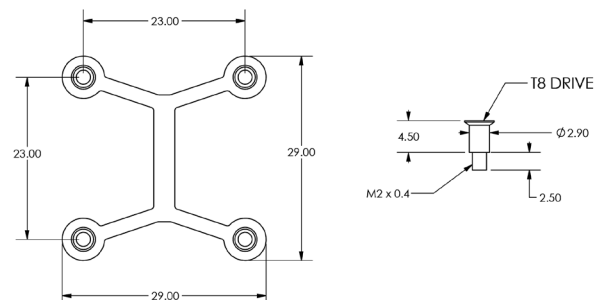
ATS-HK511-R0

Compatible NVIDIA Module	Jetson Nano
What's Included	1 x Leaf Spring, 4 x Shoulder Screws
Leaf Spring Dimensions (L x W x H)	39.8 x 21.3 x 0.8 mm
Mounting Pattern (C/C)	33.4 x 14.9 mm
Screw Specification	M2 x 0.4 x 2.5 mm, T7 drive, Ø3.0 head, 3.91 head height
Maximum Allowable Clamping Force	39.2 N
Weight	5 g
Leaf Spring Material	Stainless Steel
Compatible ATS Solutions	ATS-NVA-2780-C1-R0 (Heat Sink) ATS-NVP-2780-C2-R0 (Heat Sink) ATS-NVP-3724-C1-R0 (TTP)
RoHS Compliant	Yes



ATS-HK513-R1

Compatible NVIDIA Module	Jetson TX2 NX
What's Included	1 x Leaf Spring, 4 x Shoulder Screws
Leaf Spring Dimensions (L x W x H)	29 x 29 x 0.8 mm
Mounting Pattern (C/C)	23 x 23 mm
Screw Specification	M2 x 0.4 x 2.5 mm, T8 drive, Ø2.9 head, 4.5 head height
Recommended Torque	< 0.25 N·m
Weight	2 g
Leaf Spring Material	Stainless Steel
Compatible ATS Solutions	ATS-NVA-3353-C1-R2 (Heat Sink) ATS-NVP-3353-C2-R2 (Heat Sink)
RoHS Compliant	Yes

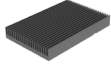
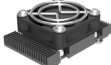
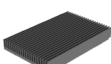
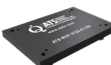
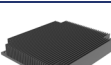
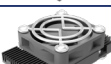
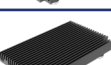
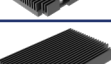
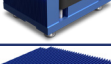
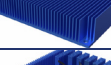
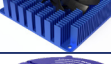


Unless otherwise specified, dimensions are in millimeters. Drawing dimensions are for reference only.

THERMAL SOLUTIONS

For NVIDIA Jetson



	NVIDIA Jetson Product	Part Number	Type	L (mm)	W (mm)	H (mm)	Weight (g)	Maximum Cooling Capacity*
	Jetson Nano™	ATS-NVA-2780-C1-R0	Heat Sink	60	40	8	35.5	10W
		ATS-NVP-2780-C2-R0	Heat Sink	60	40	8	32.3	10W
		ATS-NVP-3724-C1-R0	Thermal Transfer Plate	60	40	5	31	-
	Jetson Xavier™ NX	ATS-NVA-2781-C1-R0	Heat Sink	60	40	8	36.8	20W
		ATS-NVP-2781-C2-R0	Heat Sink	60	40	8	34.2	20W
		ATS-NVP-3725-C1-R0	Thermal Transfer Plate	60	40	5	35	-
	Jetson AGX Xavier™	ATS-NVA-3275-C4-R0	Heat Sink	100	87	16	164.3	60W
	Jetson AGX Orin™	ATS-NVP-3275-C5-R0	Heat Sink	100	87	16	167.7	60W
	Jetson Orin™ Nano Jetson Orin™ NX	ATS-NVA-3281-C1-R1	Heat Sink	63	40	8	38.3	25W
		ATS-NVP-3281-C2-R1	Heat Sink	63	40	8	36.2	25W
		ATS-NVP-3681-C1-R1	Thermal Transfer Plate	63	40	5	32	-
	Jetson™ TX2 NX	ATS-NVA-3353-C1-R2	Heat Sink	63	40	8	37.4	10W
		ATS-NVP-3353-C2-R2	Heat Sink	63	40	8	34.3	10W
	Jetson Orin™ NX (Super Mode)	ATS-NVA2-3554-C3-R0	Heat Sink	57.5	40	23	56	40W
	Jetson Thor™	ATS-NVP-3739-C1-R0	Heat Sink	100.8	87	20	168	100W
		ATS-NVA-3740-C1-R0	Heat Sink	100.8	87	20	104	95W
		ATS-NVA-3752-C2-R0	Heat Sink	100.8	92	28.6	174	175W

* Maximum cooling capacity depends on airflow, ambient temperature, module power mode, TIM selection, and system-level integration

Note: Hardware kits are not currently available for Jetson AGX Xavier, Jetson AGX Orin, or Jetson Thor. The heat sinks listed above for these modules use a different attachment method. Contact ATS for mounting guidance.