

# Heat Sink for NVIDIA® Jetson Thor™



**ATS Part #:** **ATS-NVA-3740-C1-R0**  
**Description:** 87 x 100.8 x 20 mm high-performance active heat sink with fan  
**Component:** NVIDIA Jetson Thor  
**Heat Sink Type:** Active heat sink  
**Heat Sink Attachment:** Screws

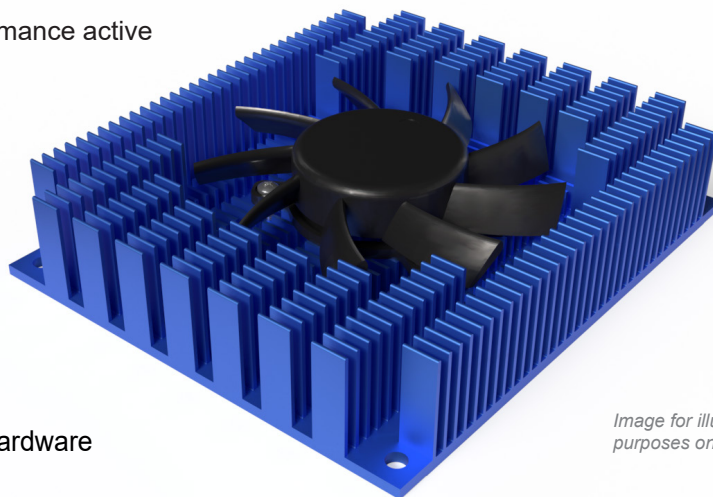


Image for illustration purposes only.

## Features & Benefits

- » Designed to fit the NVIDIA® Jetson Thor™ module
- » Cooling capacity: 95W (at 50°C ambient)
- » Mounts directly onto the SOM using customer supplied hardware
- » Frameless fan included
- » Provided with pre-assembled Thermal Interface Material (TIM) on base

| Heat Sink Part Number | L (mm) | W (mm) | H (mm) | Thermal Resistance (°C/W) | Heat Sink Weight (g) | Thermal Interface Material |
|-----------------------|--------|--------|--------|---------------------------|----------------------|----------------------------|
| ATS-NVA-3740-C1-R0    | 87     | 100.8  | 20     | 0.32                      | 104                  | Chomerics T766             |

## Fan Information

| Manufacturer Part Number | Size (mm)     | H (mm) | Voltage (VDC) | Input Power (watts) | Current (amps) | Rated Speed (RPM) | Air Flow (CFM)     | Max Static Pressure (Pa) | Noise Level (dB) |
|--------------------------|---------------|--------|---------------|---------------------|----------------|-------------------|--------------------|--------------------------|------------------|
| Delta AFB0705MC-00F0R    | 65.8 Diameter | 13     | 5             | 1.1                 | 0.22           | 2900              | 22.1 (0.230m³/min) | 23.4                     | 28.1             |

Lead Wire: UL10368 AWG#28, Pin 1 - Black (-), Pin 2 - Red (+), Pin 3 - Yellow (FG), Pin 4 - Blue (PWM)

## Product Details

| SCHEMATIC IMAGE | Dimension A | Dimension B | Dimension C | Dimension D | Dimension E | Dimension F | Material      | Finish        |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|
|                 | 87 mm       | 100.8 mm    | 20 mm       | 92 mm       | 79 mm       | 3.5 mm      | Aluminum 6063 | Blue Anodized |

### NOTES:

- 1) Dimensions A and B refer to heat sink size.
- 2) Dimension C is the heat sink height from the bottom of the base to the top of the fin field.
- 3) Dimensions D and E refer to the mounting hole pattern C-C (center to center).
- 4) Dimension F refers to the mounting hole diameter.
- 5) Thermal performance data is 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.



All Images are for illustration purposes only.

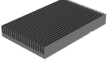
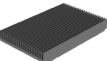
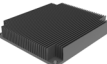
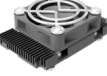
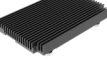
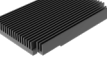
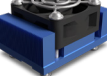
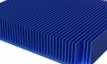
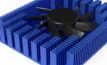


For further technical information, please contact Advanced Thermal Solutions, Inc.

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# ATS 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         | N/A                      |
|    | 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         | N/A                      |
|    | 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<br>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-NVA-3681-C1-R1  | Thermal Transfer Plate | 63     | 40     | 5      | 32         | N/A                      |
|  | 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                     |

R2\_1025



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