



## Raspberry Pi 5 and 2280 NVME SSD Cooler Case



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### Summary

The case has been designed to house an NVME drive mounted under the Pi

[Gadgets](#) > [Computers](#)

#### Raspberry Pi 5 and 2280 NVME SSD Cooler Case

The case has been designed to house an NVME drive mounted under the Pi.

The available drive I had was a 2280m, being 80mm, which is longer than the case length, so it protrudes a bit. (I intend to improve on this in the future)

The NVME drive is installed in a slimline aluminium enclosure that has a male USB A connector.

The USB3 connection to the Pi is made using a 180 degree USB3 male/female Adapter.

The wall thickness of 2.5mm allows for a small reset button which sits in a small square guide recess.

Printed in PLA 0.10mm to get good definition.

If it is printed in transparent PLA it will be illuminated by the LED behind on the PCB.

Similarly a small lens can be printed in transparent PLA and inserted into the 2x2 LED hole.

4x M2.5mmx10mm female/male sockets which self tap into the pcb standoffs fixing the Pi in position.  
I used 4x M2.5 x 2mm washers to eliminate the screws bottoming out.

The case is printed upright at 0.2mm PLA.  
Supports being needed to the Pi mounting overhangs at each end and the aperture for the NVME enclosure.

Parts used - obtained from Amazon.

ANYOYO NVMe Enclosure, 10Gbps NVMe to USB Adapter USB 3.1 Gen 2, M.2 NVMe SSD Enclosure Compatible with M-Key & B+M Key NVMe SSD

Integral 250GB SSD NVME M.2 2280 PCIe Gen3 x 4 R-3350MB/s W-1350 MB/s TLC M2 Solid State Drive

Leehitech 2PCS USB3.0 Adapter, 180 Degree U-Shape USB 3.0 Converter 10Gbps USB3.0 Male to Female Connector

Hope the helps someone.

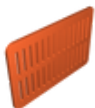
## Model files



**nvme-case-v81.stl**



**top-cover-active-cooler-v81.stl**



**bottom-cover-v81.stl**

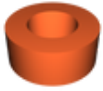


**button-v44.stl**



**led-lens-v50.stl**

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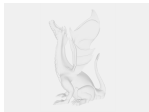
**m25x2mm-washer-v44.stl**

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**nvme-case-bottom-v81.step**

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**top-cover-active-cooler-v81.step**

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**bottom-cover-v81.step**

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**button-v44.step**

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**led-lens-v50.step**

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**m25x2mm-washer-v44.step**

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