



## Anker 7 Port Hub DIN Mount

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### Summary

This is a bracket to mount an Anker 7 Port USB hub with charging port to a DIN rail in my Voron Trident

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I connected two USB cameras, an SSD, an old cell phone running KlipperScreen, USB port for ADXL accelerometer, and of course the MCU to my RPi 4: the combination of which draws way too much power for its USB ports. After trying a few solutions I bought the "Anker 7-port Hub with Charging Port" powered USB 3.0 hub. I connected the cell phone to the charging port, the SSD through a Y splitter to get more power by connecting to two regular USB ports, and the rest, onto the hub. I have used it for several months with no problems with stability.

So I made the installation permanent by fixing the USB hub next to my RPi 4. To fit everything in the already cramped electronics bay this bracket mounts directly to the DIN rail, and tight as possible, and is shifted to the side to allow space on the end for the power and USB to the RPi.

The connection between the two parts is made with a heat set insert in the bottom piece and a M3x25 socket head screw. The joint between the two parts has no clearance and interlocks to make it secure. I put them

together and took them apart a few times, and made sure the screw would go in smoothly before mounting.

I printed it with ABS, 15% gyroid infill, organic supports from build plate per the photo in PrusaSlicer. The supports came off clean, and did not take much material. If you look closely you can see that the print in the photo is two tone - black and grey. No particular reason other than I ran out of black and finished with the grey. This is actually my prototype, but it held together when I mounted it, and worked fine. This is the first project I actually got right the first time! And if you disagree and think something needs to change, I included the Fusion360 model so you can modify it.

## Model files



**ankerusbhub-v0.3mf**



**ankerusbhub-v8.f3d**

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