



N64-Pico-Switch Case

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Summary

A case for the Retro-Pico-Switch project

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This is a case I designed for my [N64-Pico-Switch](#) project (a one-year update to my [N64-Arduino-Switch](#) project). Inspired by the ongoing unavailability of official Nintendo Switch Online wireless N64 controllers for playing N64 games via the N64 app, this projects allows you to use an original N64 controller plugged into a Nintendo Switch via a Raspberry Pi Pico to play N64 games on the Switch.

Print Settings

Printer Brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

Yes

Resolution:

0.15mm QUALITY

Infill:

15%

Filament: Prusa PLA Galaxy Silver

Notes:

Important note on the Pico enclosure STL Rotate the enclosure so that the USB opening is on the build plate.

Post-Printing =====

Putting together this print is a bit finicky since I wanted to make it as slim as possible. The inside of the Pico Enclosure only has enough room between the Pico and the enclosure for a single 22 gauge wire (no overlapping wires). Also, the clips do get in the way of the Pico easily sliding in. It will take some rocking of the Pico back and forth so that the side castellations advance through the clips one or two at a time.

All wires must be soldered on the same side of the Pico so that they can reach the holes in the offset N64 male connector when closed. I have mine on the top, and have not tried the bottom, but the case is symmetric and the N64 male connector should be able to be flipped so the offset favors the bottom instead.

Support is only needed for the clip overhangs at the top of the Pico enclosure. If they droop at all, make sure to file them straight. The thin line of support that goes inside of the enclosure should be easily removable with needle nose pliers and a knife.

The pin holes in the N64 male connector are designed for male JST SM pins. Crimp the pins onto the wires first, then push them through the holes. They should 'click' into place. If the tolerance is too large in your print, you may want to gently pull back on the wires to center the pins in the holes, insert the female connector from an N64 controller to keep them centered, then apply some super glue to hold their position.

How I Designed This

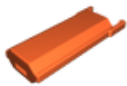
I'm fairly new to Fusion 360, so I've also included the .f3d file in case anyone would like to improve on my design.

Category: Video Games

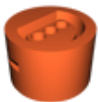
Model files



n64_pico_switch.f3d



pico_enclosure.stl



n64_male_connector.stl

[Find source .stl files on Thingiverse.com](#)

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