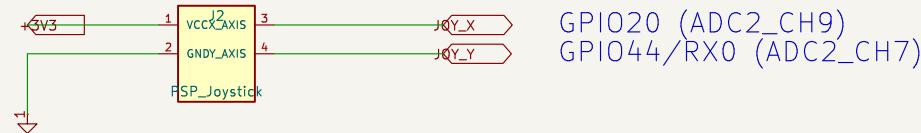


JOYSTICK – PSP Analog Stick (Optional)

2-axis analog input via ESP32-S3 ADC channels



GPIO20 (ADC2_CH9)
GPIO44/RX0 (ADC2_CH7)

Design Notes:

- PSP-style mini analog stick with potentiometer outputs
- X/Y outputs: 0V (min) to 3.3V (max), ~1.65V at center
- ESP32-S3 ADC2: 12-bit resolution (4096 steps per axis)
- Optional: can be omitted for D-pad-only build
- GPIO44 shares RX0 UART pin; debug input unavailable when connected
- GPIO43 (TX0) still works for debug UART output

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ESP32 Emu Turbo – Handheld Retro Console

Sheet: /
File: 07-joystick.kicad_sch

Title: Joystick – PSP Analog (Optional)

Size: A4 Date:
KiCad E.D.A. 9.0.7

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