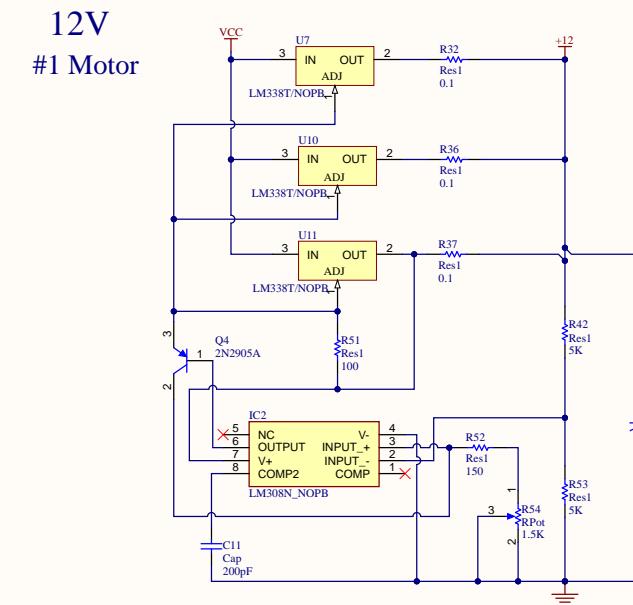
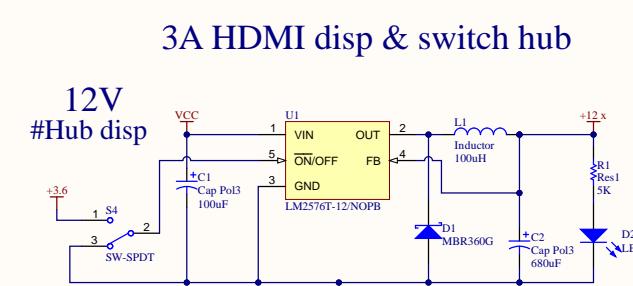
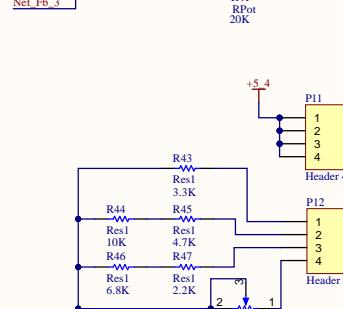
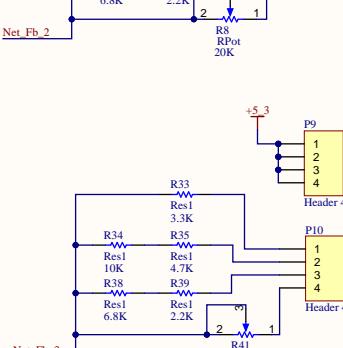
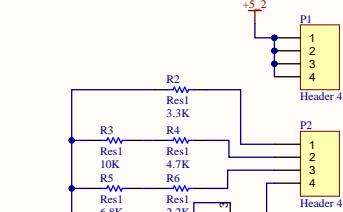
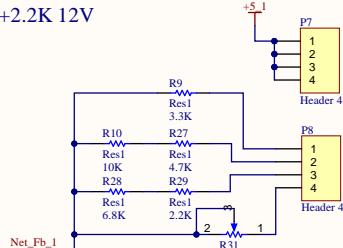
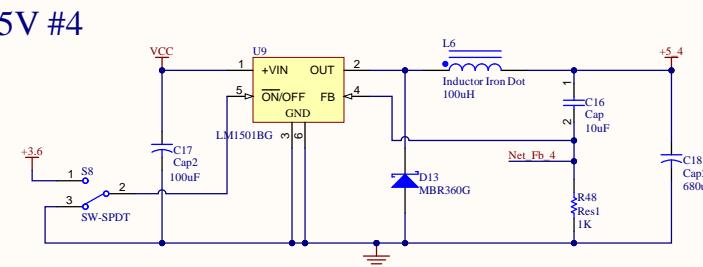
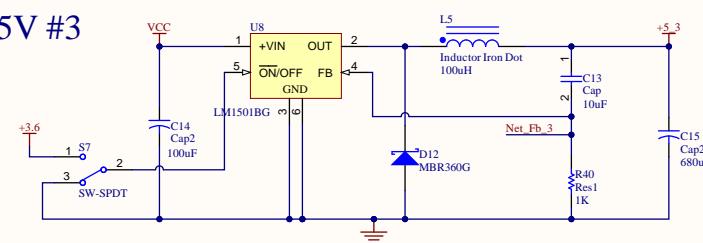
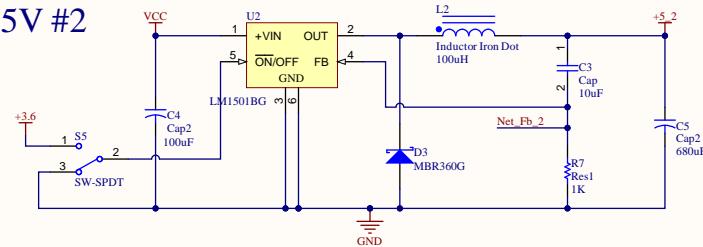
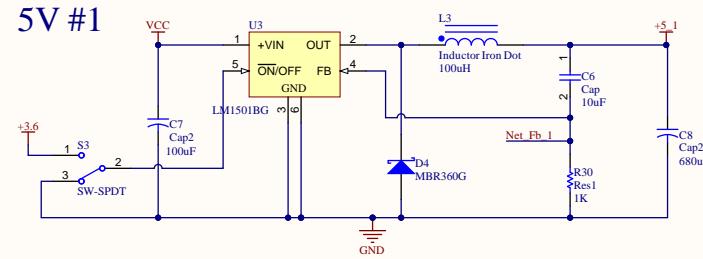


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Jetson Nano 5V / 12V / Intel NUC 19V

3300 5V | 10K+4700 19V | 6.8K+2.2K 12V



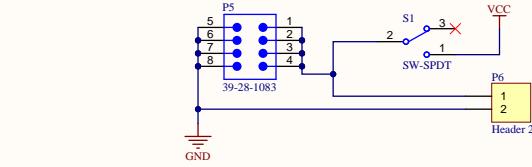
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Battery 24-29V

Battery measure meter



This circuit diagram illustrates a power supply design using three LM338T/NOPB integrated circuits (ICs) to regulate three separate outputs. The circuit is powered by a 24V source (V_{CC}) and includes a feedback path to stabilize the outputs.

Power Input: V_{CC} is connected to the non-inverting input (pin 3) of each LM338T/NOPB (U4, U5, U6).

Feedback Path: The inverting input (pin 2) of each LM338T/NOPB is connected to the output of IC1 (LM308N_NOPB). The output of IC1 is connected to the non-inverting input of U6. The output of U6 is connected to the inverting input of IC1. This forms a negative feedback loop for the third output.

Output Path 1: The output of U4 is connected to R11 (Res1 0.1) and then to the common ground rail.

Output Path 2: The output of U5 is connected to R12 (Res1 0.1) and then to the common ground rail.

Output Path 3: The output of U6 is connected to R13 (Res1 0.1), then to R15 (Res1 100), and finally to the inverting input of IC1.

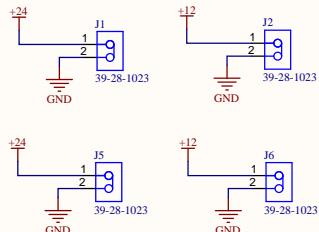
Current Limiting: Q1 (2N2905A) is used as a current limiter for the third output. Its collector is connected to the output of U6 and its emitter is connected to the common ground rail. A resistor R14 (Res1 5K) is connected between the collector of Q1 and the common ground rail.

Feedback Components: C9 (Cap 200pF) is connected between the output of U6 and the inverting input of IC1. R18 (Res1 150) is connected between the output of U6 and the non-inverting input of IC1. R25 (Res1 5K) is connected between the output of U6 and the common ground rail.

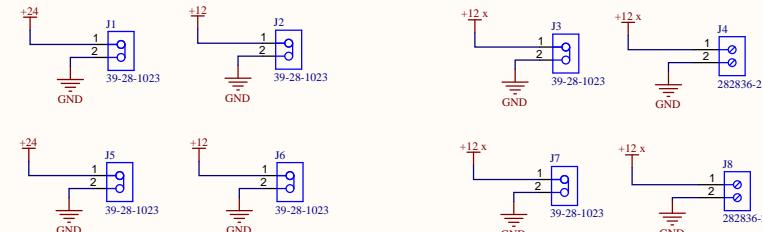
Switching Element: S2 is a SW-SPDT switch connected between the output of U6 and the common ground rail.

Output Voltages: The outputs are labeled +24 and +24V, indicating they are regulated versions of the 24V input.

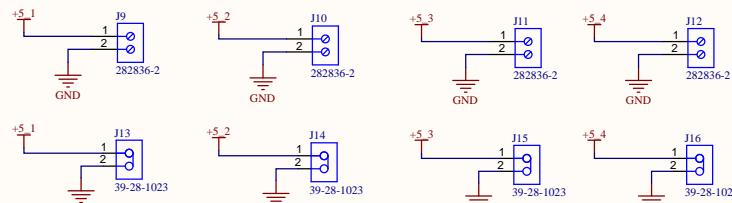
Dynamixel



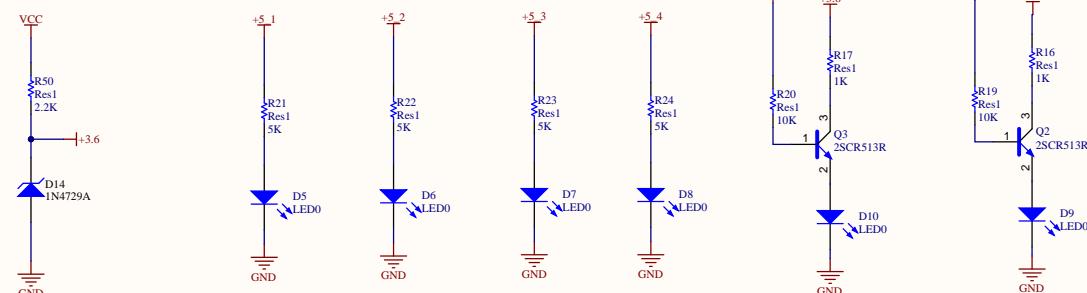
HDMI disp & switch hub



Jetson nano



Zener 3.6



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ENG: .				.
DSN: owl.hor		PROJECT REVISION	DOCUMENT REVISION	DESIGN ITEM
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