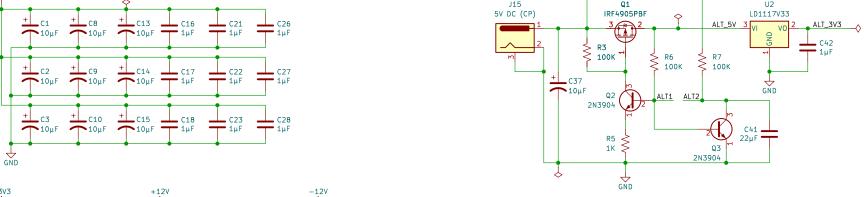
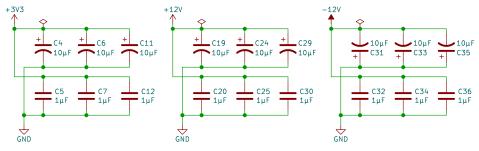


## ATX POWER CONNECTOR ATX POWER ON CIRCUIT J11 +12V +3V3 PWR IN SEL VCC ALT\_3V3 \_1 \_ ALT\_5V ATX\_5V This is a basic active low Power-On-Reset with a small RC delay. ATX\_3V3 ATX\_3V3 5 ATX\_5V R4 🗲 10K < U1B J10 ATX POWER U4 LM7905 PWR SW SEL +3.3V +3.3V C38 • VO 3 ATX\_-5V 74HCT14 74HCT14 14 +3.3V -12V 1µF 15 GND GND PS\_ON R8 PS\_ON 16 R8 ≥ +5٧ 17 GND GND GND 18 ATX 6 GND VCC +5٧ GND SW1 +5٧ 19 GND GND U3A → 74HCT74 R9 ≥ × 8 PG 20 x NC 4 2 D IN Q +3/3 PS\_ON +5VSB +5٧ ATX\_3V3 1 J19 10 +12V +57 R1 POWER 11 +12V +5٧ 3V/-5V 220 lo<sub>2</sub> ×12 +3.3V C39 -GND 74HCT14 1μF -12V Select between -5V or 3V3 J14 GND on lane B5 GND VCC PWR\_SW GND R2 This is a basic switch debounce. J13 220 GND PWR\_LED **BYPASS CAPACITORS** ALTERNATE POWER SOURCE WITH SOFT ON CIRCUIT J15 Q1 U2 5V DC (CP) IRF4905PBF LD1117V33 ALT\_5V 3 VI \_ C1 \_C13 \_C8 \_\_ C16 \_ C21 **C**26 ALT\_3V3 1μF **1**0μF 10μF 10μF - C42 R6 100K 100K \_ C9 C14 \_\_ C17 **C**22 **C27** 1μF 10μF 10μF 10μF **-** 1μF \_\_ C37 1μF \_\_\_\_10μF GND Q2 ALT1 ALT2 2N3904 + \_ c3 + C10 +L C15 C18 C23 10μF 10μF 10μF \_\_\_\_ 1μF **-** 1μF C41 -22μF R5





## Frederic Segard (@microhobbyist)

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