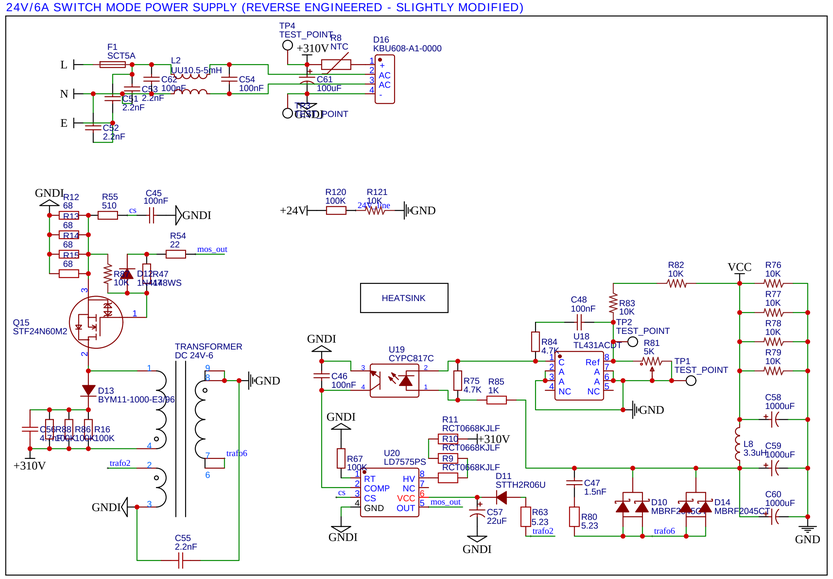
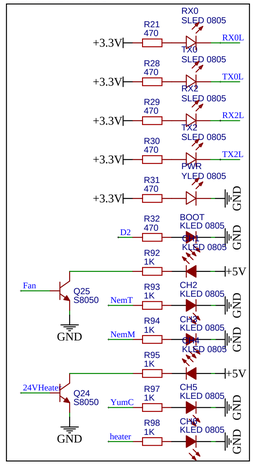
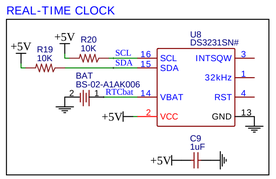
24V/6A SWITCH MODE POWER SUPPLY (REVERSE ENGINEERED - SLIGHTLY MODIFIED)



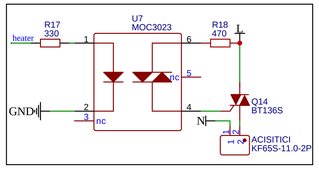
INDICATOR LEDs



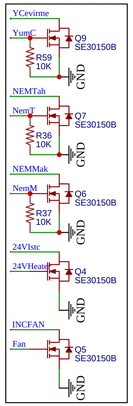
REAL-TIME CLOCK



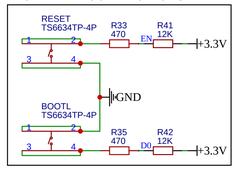
AC HEATER CONTROL



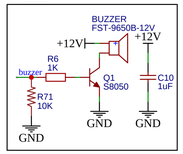
POWER MOSFETS



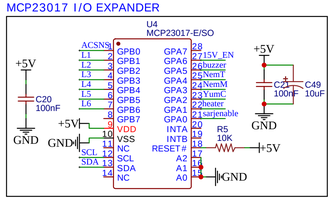
RESET AND BOOTL. BUTTONS



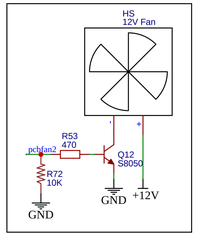
BUZZER



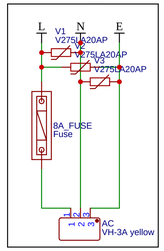
MCP23017 I/O EXPANDER



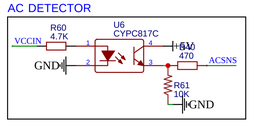
PCB FAN 2



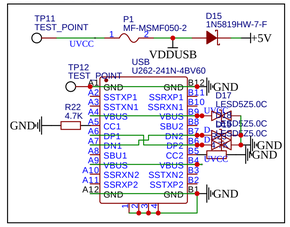
AC IN AND FUSE



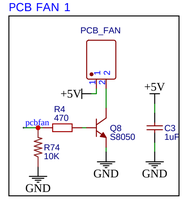
AC DETECTOR



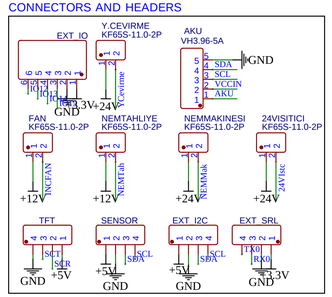
USB TYPE C PORT



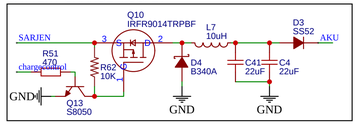
PCB FAN 1



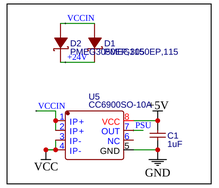
CONNECTORS AND HEADERS



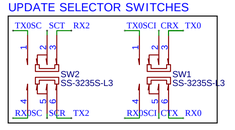
BATTERY CHARGE MOSFET



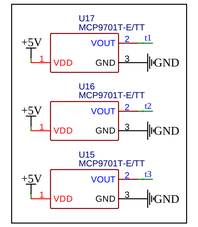
VCC IN DIODES AND CUR. SENS.



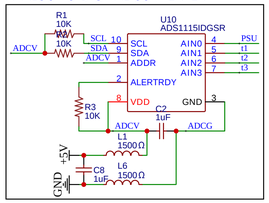
UPDATE SELECTOR SWITCHES



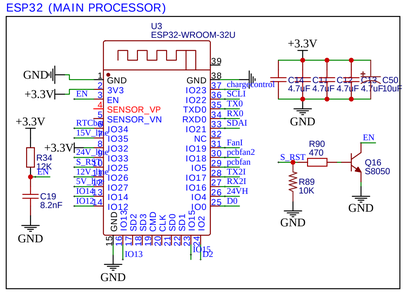
TEMP SENSORS



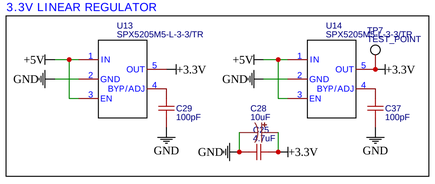
ANALOG TO DIGITAL CONVERTER



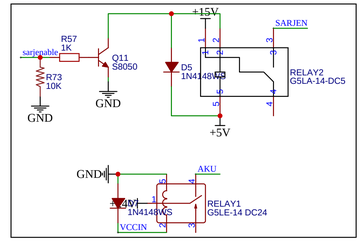
ESP32 (MAIN PROCESSOR)



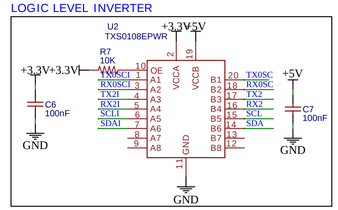
3.3V LINEAR REGULATOR



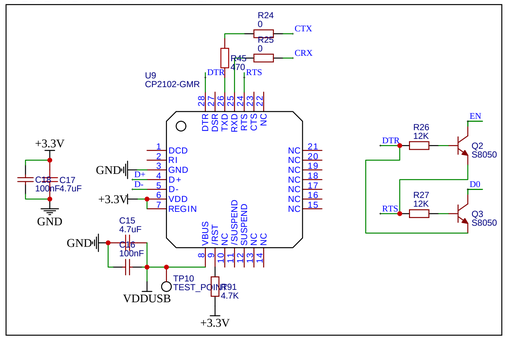
RELAYS



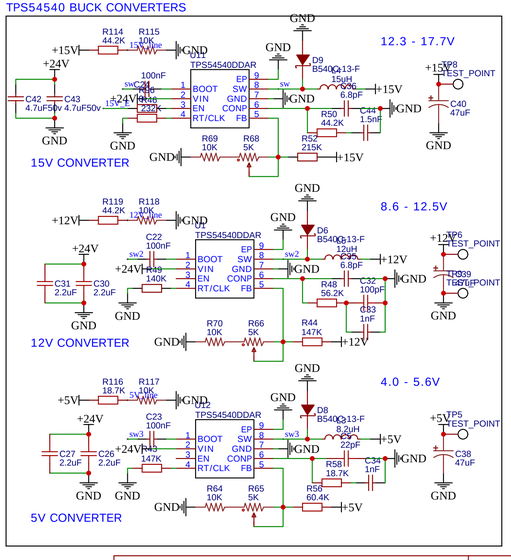
LOGIC LEVEL INVERTER



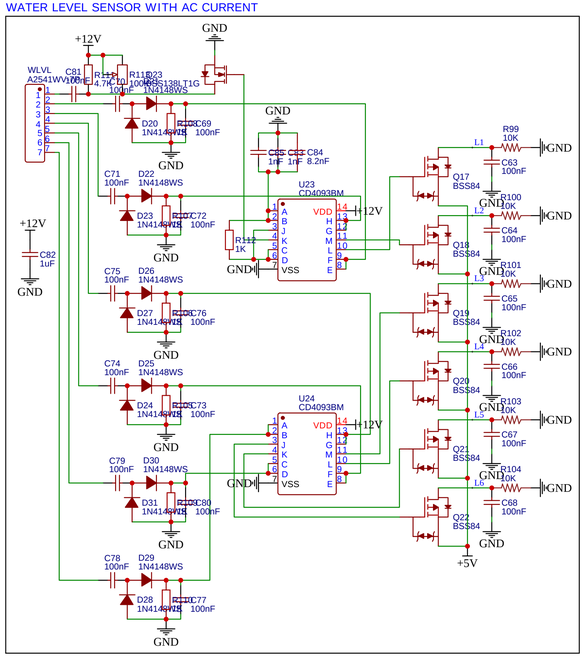
CP2102 USB TO UART CONVERTER



TPS54540 BUCK CONVERTERS



WATER LEVEL SENSOR WITH AC CURRENT



SN74AHC04 AND ULN2003