Power & Voltage Regulation
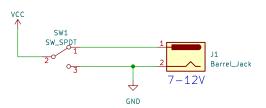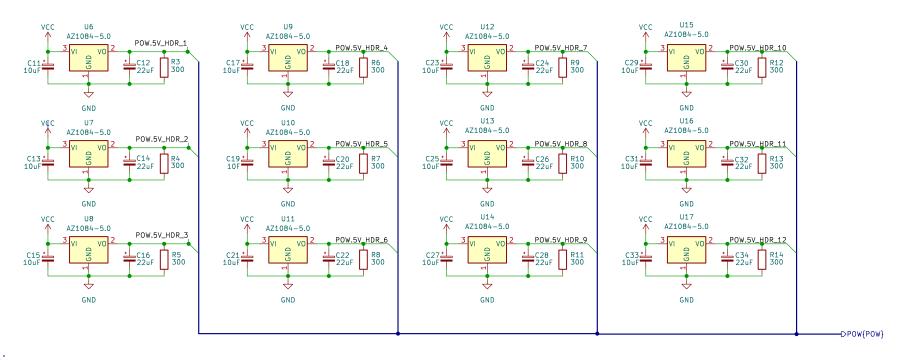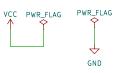
VCC

SW1
SW_SPDT

J1
Barrel_Jack

7-12V

GND

1. Voltage regulator
   input: 7-12V
   output: 5V, 5A
   AZ1084CD-5.0TRG1
   C2980701

2. 300 Ohm resistor for minimum load
   C2933670   SMD 1206

VCC U6 AZ1084-5.0   POW.5V_HDR_1
C11 10uF   VI GND VO   C12 22uF   R3 300
GND

VCC U9 AZ1084-5.0   POW.5V_HDR_4
C17 10uF   VI GND VO   C18 22uF   R6 300
GND

VCC U12 AZ1084-5.0   POW.5V_HDR_7
C23 10uF   VI GND VO   C24 22uF   R9 300
GND

VCC U15 AZ1084-5.0   POW.5V_HDR_10
C29 10uF   VI GND VO   C30 22uF   R12 300
GND

VCC U7 AZ1084-5.0   POW.5V_HDR_2
C13 10uF   VI GND VO   C14 22uF   R4 300
GND

VCC U10 AZ1084-5.0   POW.5V_HDR_5
C19 10F   VI GND VO   C20 22uF   R7 300
GND

VCC U13 AZ1084-5.0   POW.5V_HDR_8
C25 10uF   VI GND VO   C26 22uF   R10 300
GND

VCC U16 AZ1084-5.0   POW.5V_HDR_11
C31 10uF   VI GND VO   C32 22uF   R13 300
GND

VCC U8 AZ1084-5.0   POW.5V_HDR_3
C15 10uF   VI GND VO   C16 22uF   R5 300
GND

VCC U11 AZ1084-5.0   POW.5V_HDR_6
C21 10uF   VI GND VO   C22 22uF   R8 300
GND

VCC U14 AZ1084-5.0   POW.5V_HDR_9
C27 10uF   VI GND VO   C28 22uF   R11 300
GND

VCC U17 AZ1084-5.0   POW.5V_HDR_12
C33 10uF   VI GND VO   C34 22uF   R14 300
GND

POW{POW}

Notes:

1. Add additional 5V regulator or use 5V from exisit to power for level shifters.
2. Check that switch can handle the current ...

VCC PWR_FLAG   PWR_FLAG

GND