

Rev 3:  
 - Remove NTC from input  
 - Fix footprints  
 - Lengthen board by 1mm  
 - Remove i2c from LCD connector

Rev 2:  
 Changes:  
 - Add ETH phy  
 - Add beeper

Rev 1:  
 Changes:  
 - Encoders RX/TX pins  
 - Fan PWM matches arduino pins  
 Known Issues:  
 - Ethernet PHY not present (needed?)

Rev 0:  
 Known Issues  
 - Ethernet PHY not present, needs external board.  
 - Check connector current ratings.  
 - Move encoders to us RX/TX pins  
 - Move Fan PWM to match Archim2 pins (PC25/PC26).

Title: **Cover Sheet**

Approved: NO

Rev: 03

Project: **ChipSHOVER-One**

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Date: 2021-01-15

Time: 8:48:48 PM

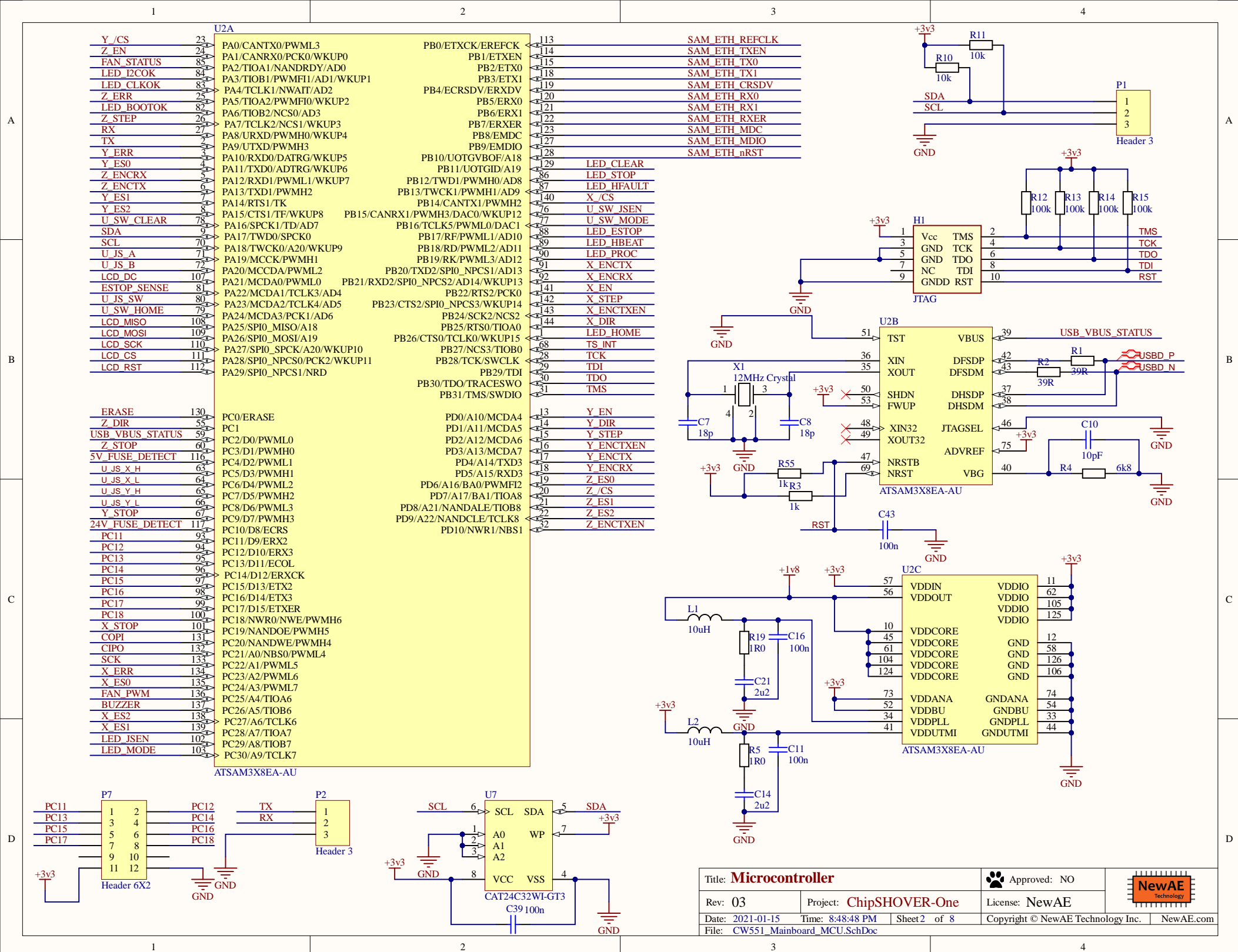
Sheet 1 of 8

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File: [CW551\\_MainBoard\\_Cover.SchDoc](#)





Thermistor - change to SL15 2R508?

Add bomitem for switch.  
Check if the switch is  
listed on the LCD board  
schems

BOMITEM2  
BOM  
CONN RCPT HSG 3POS 3.96MM

BOMITEM3  
BOM  
18-24AWG CRMP  
ZPT1  
SW.Power

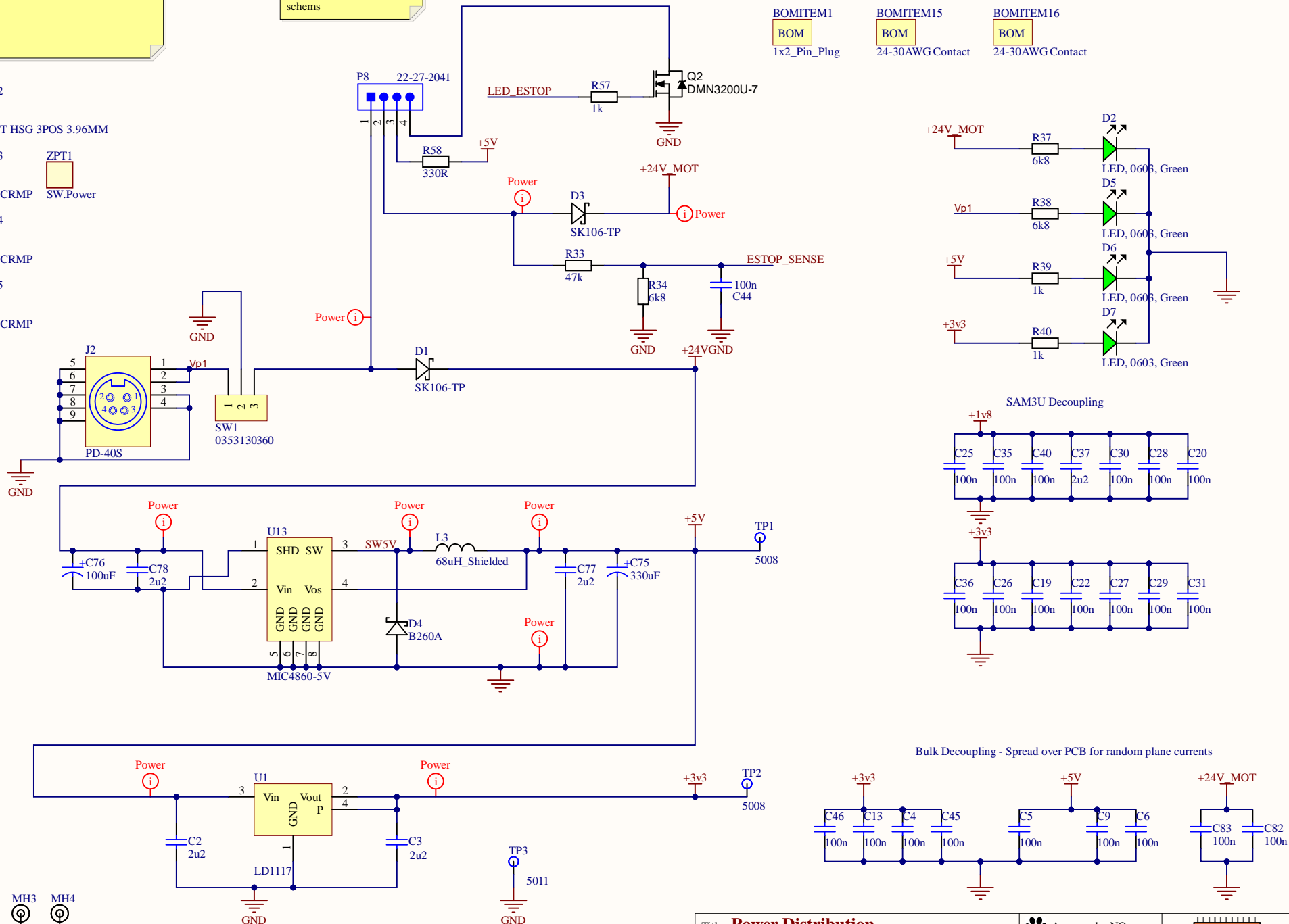
BOMITEM4  
BOM  
18-24AWG CRMP

BOMITEM5  
BOM  
18-24AWG CRMP

BOMITEM1  
BOM  
1x2\_Pin\_Plug

BOMITEM15  
BOM  
24-30AWG Contact

BOMITEM16  
BOM  
24-30AWG Contact



Title: **Power Distribution**

Approved: NO

Rev: 03

Project: **ChipSHOVER-One**

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Date: 2021-01-15

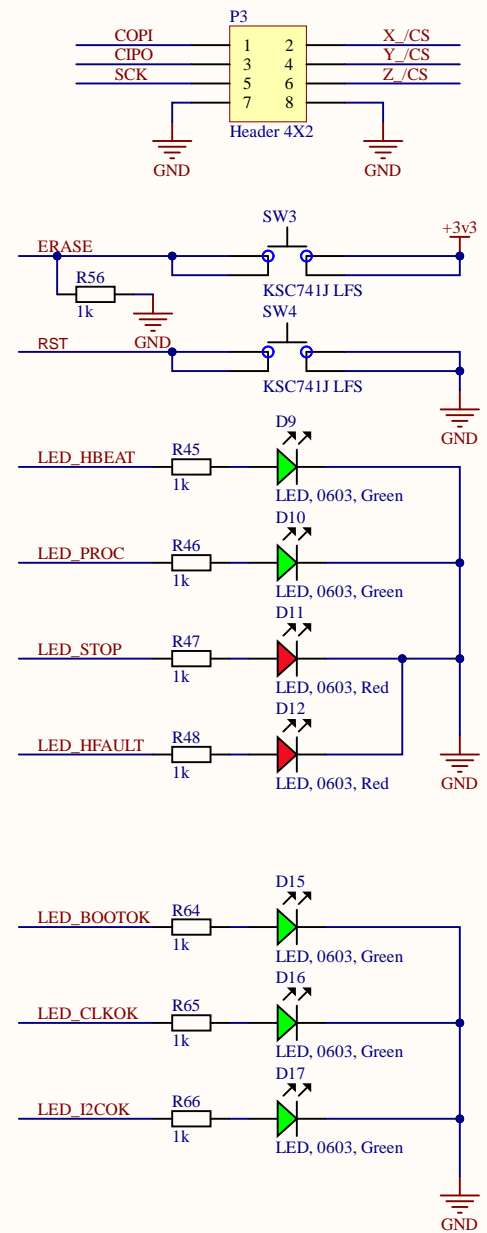
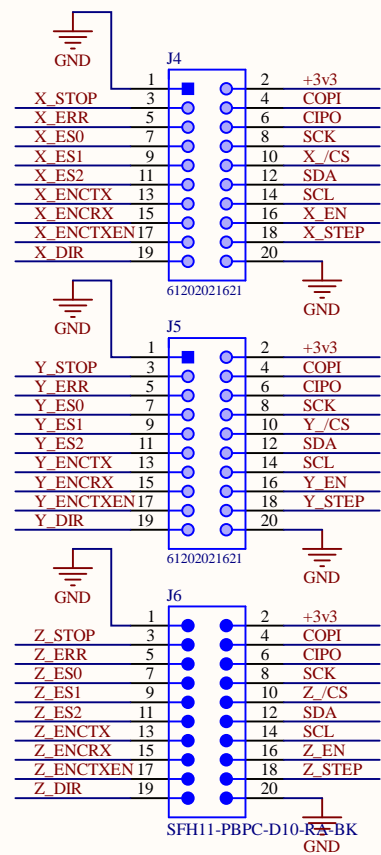
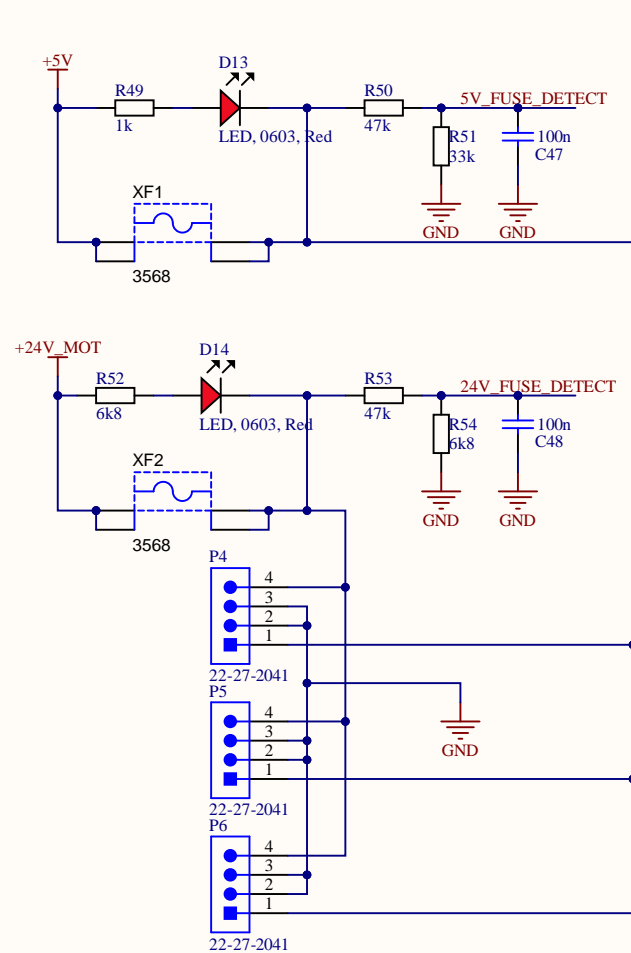
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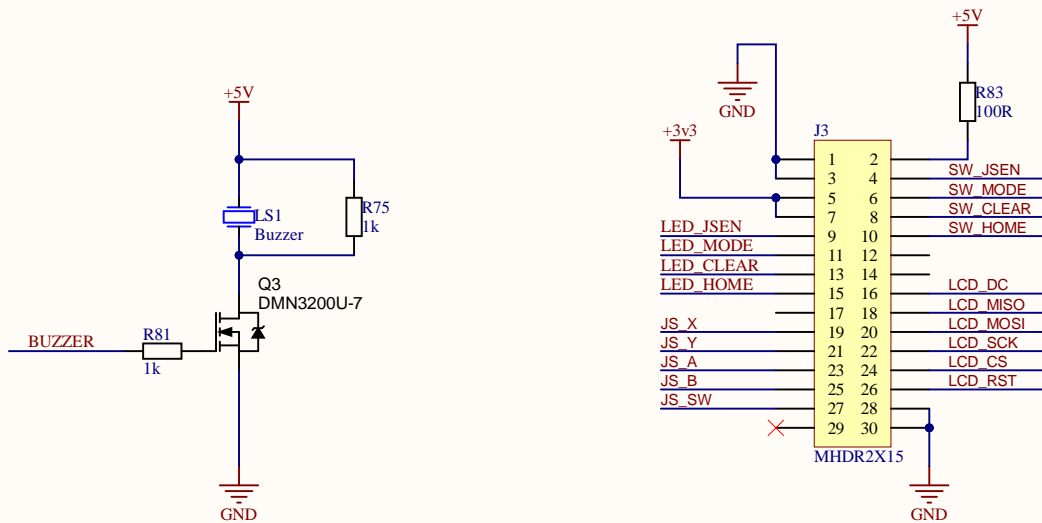
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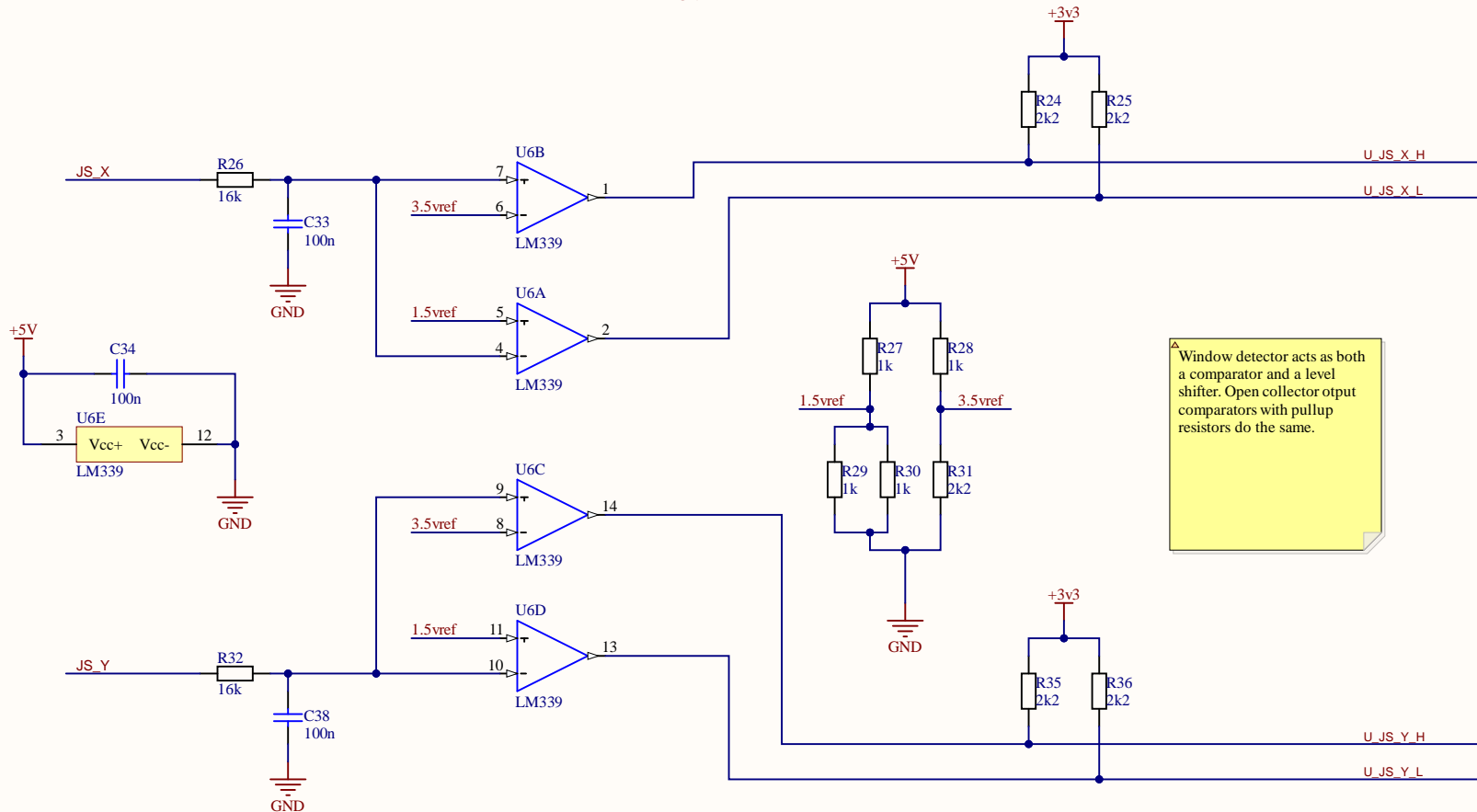
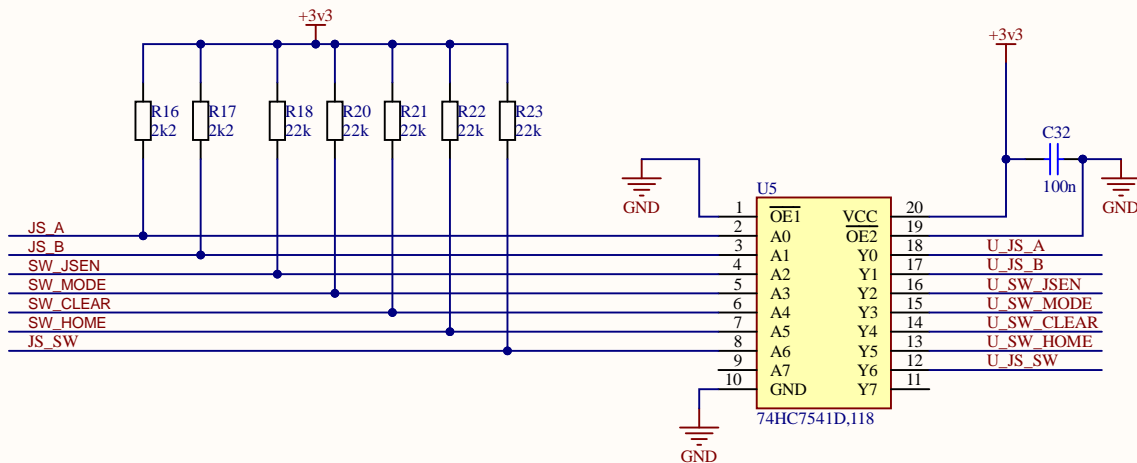
File: **CW551\_MainBoard\_Power.SchDoc**







△ IDC female - 45130-010030 x 2  
IDC cable - 3754/30 300



Title: **Joystick & FP Switch**

Approved: NO

Rev: 03

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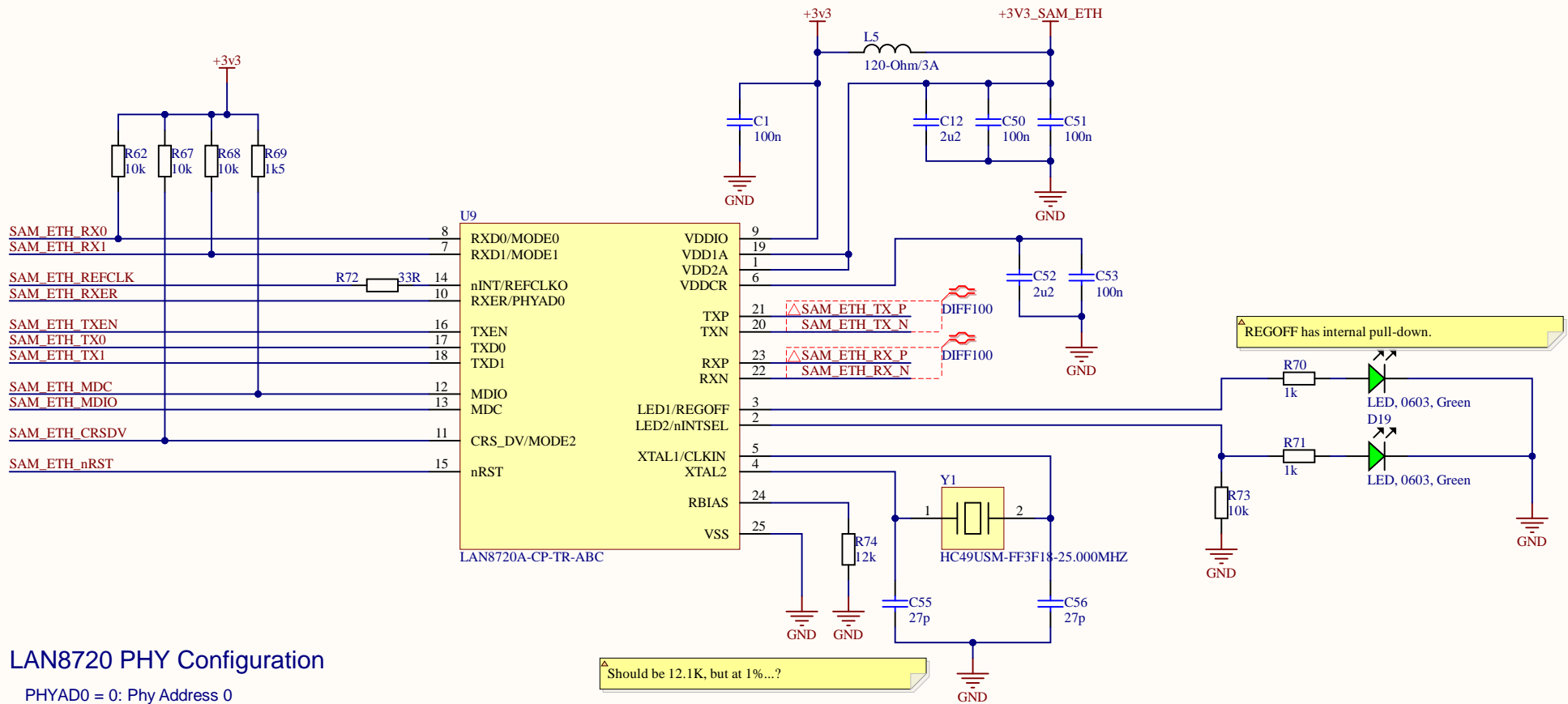
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File: CW551\_MainBoard\_Joystick.SchDoc

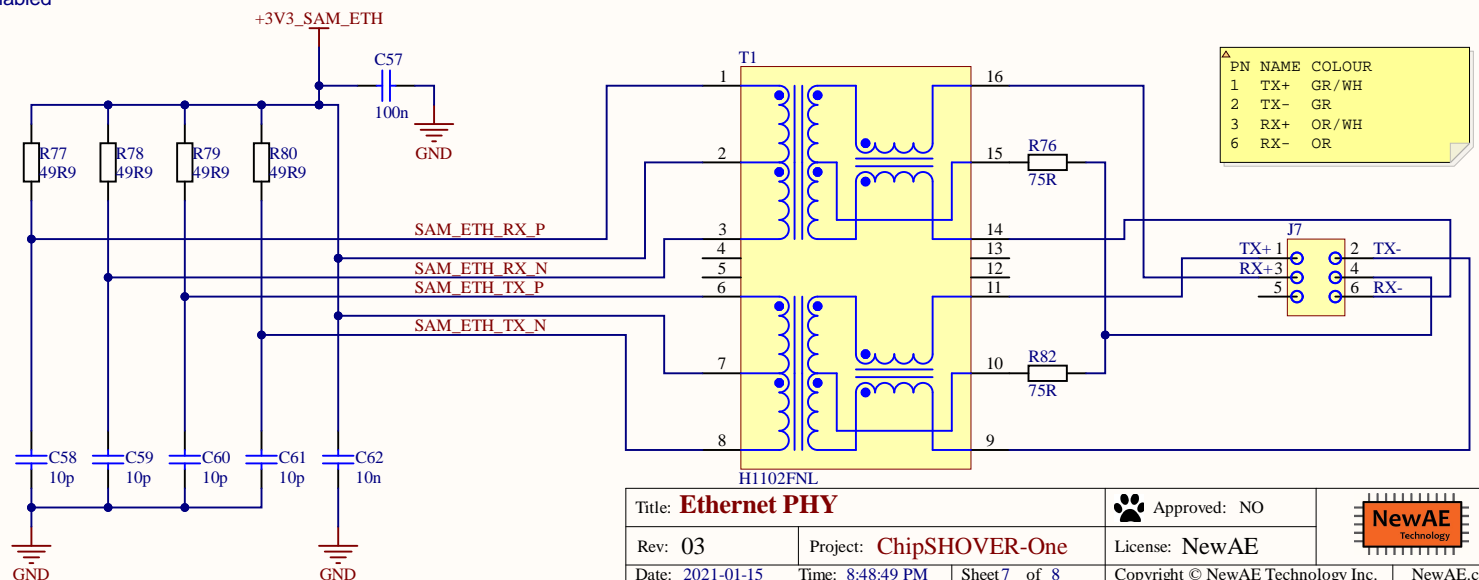


# SAM3X Ethernet



## LAN8720 PHY Configuration

PHYAD0 = 0: Phy Address 0  
 CRS\_DV/MODE2 = 1: All modes, autonegotiation enabled  
 RXD1/MODE1 = 1  
 RXD0/MODE0 = 1  
 LED1/REGOFF = 0: Internal 1.2 V Reg enabled  
 LED2/nINTSEL = 0: REF\_CLK Out mode



Title: **Ethernet PHY**

Rev: **03**

Project: **ChipSHOVER-One**

Date: 2021-01-15

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