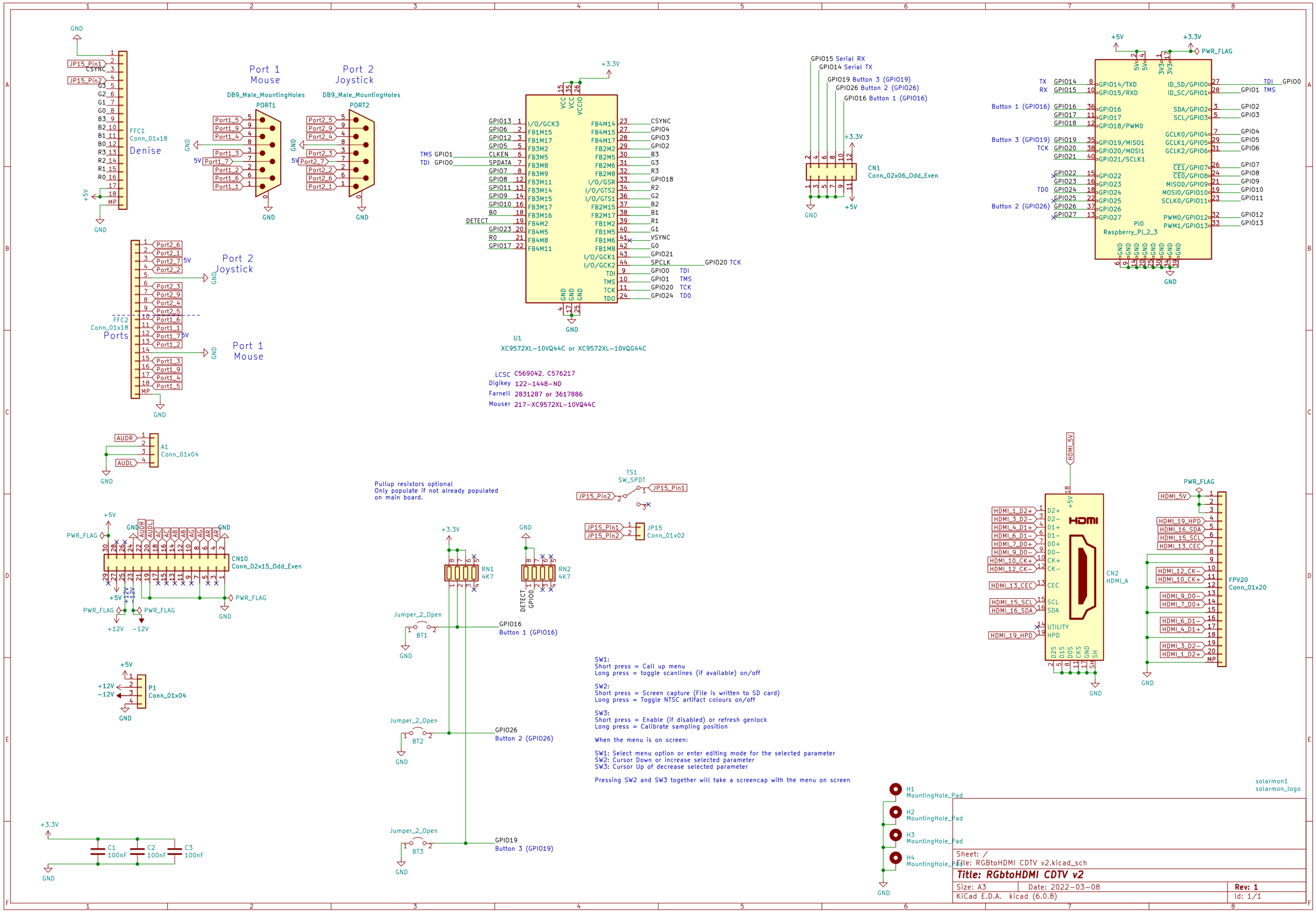
FFC1
Conn_01x18
Denise
JP15_Pin1
JP15_Pin2
CSYNC
G3
G2
G1
G0
B3
B2
B1
B0
R3
R2
R1
R0
MP
Port 1
Mouse
Port 2
Joystick
DB9_Male_MountingHoles
PORT1
PORT2
Port1_5
Port1_9
Port1_4
Port1_3
Port1_7
Port1_2
Port1_6
Port1_1
Port2_5
Port2_9
Port2_4
Port2_3
Port2_7
Port2_2
Port2_6
Port2_1
FFC2
Conn_01x18
Ports
U1
XC9572XL-10VQ44C or XC9572XL-10VQG44C
LCSC C569042, C576217
Digikey 122-1448-ND
Farnell 2831287 or 3617886
Mouser 217-XC9572XL-10VQ44C
TMS GPIO1
TDI GPIO0
DETECT
GPIO20 TCK
GPIO15 Serial RX
GPIO14 Serial TX
GPIO19 Button 3 (GPIO19)
GPIO26 Button 2 (GPIO26)
GPIO16 Button 1 (GPIO16)
CN1
Conn_02x06_Odd_Even
PWR_FLAG
Raspberry_Pi_2_3
Button 1 (GPIO16)
Button 3 (GPIO19)
Button 2 (GPIO26)
A1
Conn_01x04
AUDR
AUDL
CN10
Conn_02x15_Odd_Even
P1
Conn_01x04
C1 100nF
C2 100nF
C3 100nF
Pullup resistors optional
Only populate if not already populated
on main board.
TS1
SW_SPDT
JP15
Conn_01x02
RN1
4K7
RN2
4K7
Jumper_2_Open
BT1
BT2
BT3
GPIO16
Button 1 (GPIO16)
GPIO26
Button 2 (GPIO26)
GPIO19
Button 3 (GPIO19)
SW1:
Short press = Call up menu
Long press = toggle scanlines (if available) on/off
SW2:
Short press = Screen capture (File is written to SD card)
Long press = Toggle NTSC artifact colours on/off
SW3:
Short press = Enable (if disabled) or refresh genlock
Long press = Calibrate sampling position
When the menu is on screen:
SW1: Select menu option or enter editing mode for the selected parameter
SW2: Cursor Down or increase selected parameter
SW3: Cursor Up of decrease selected parameter
Pressing SW2 and SW3 together will take a screencap with the menu on screen
HDMI_5V
CN2
HDMI_A
FPV20
Conn_01x20
H1 MountingHole_Pad
H2 MountingHole_Pad
H3 MountingHole_Pad
H4 MountingHole_Pad
solarmon1
solarmon_logo
Sheet: /
File: RGBtoHDMI CDTV v2.kicad_sch
Title: RGBtoHDMI CDTV v2
Size: A3
Date: 2022-03-08
Rev: 1
KiCad E.D.A. kicad (6.0.8)
Id: 1/1