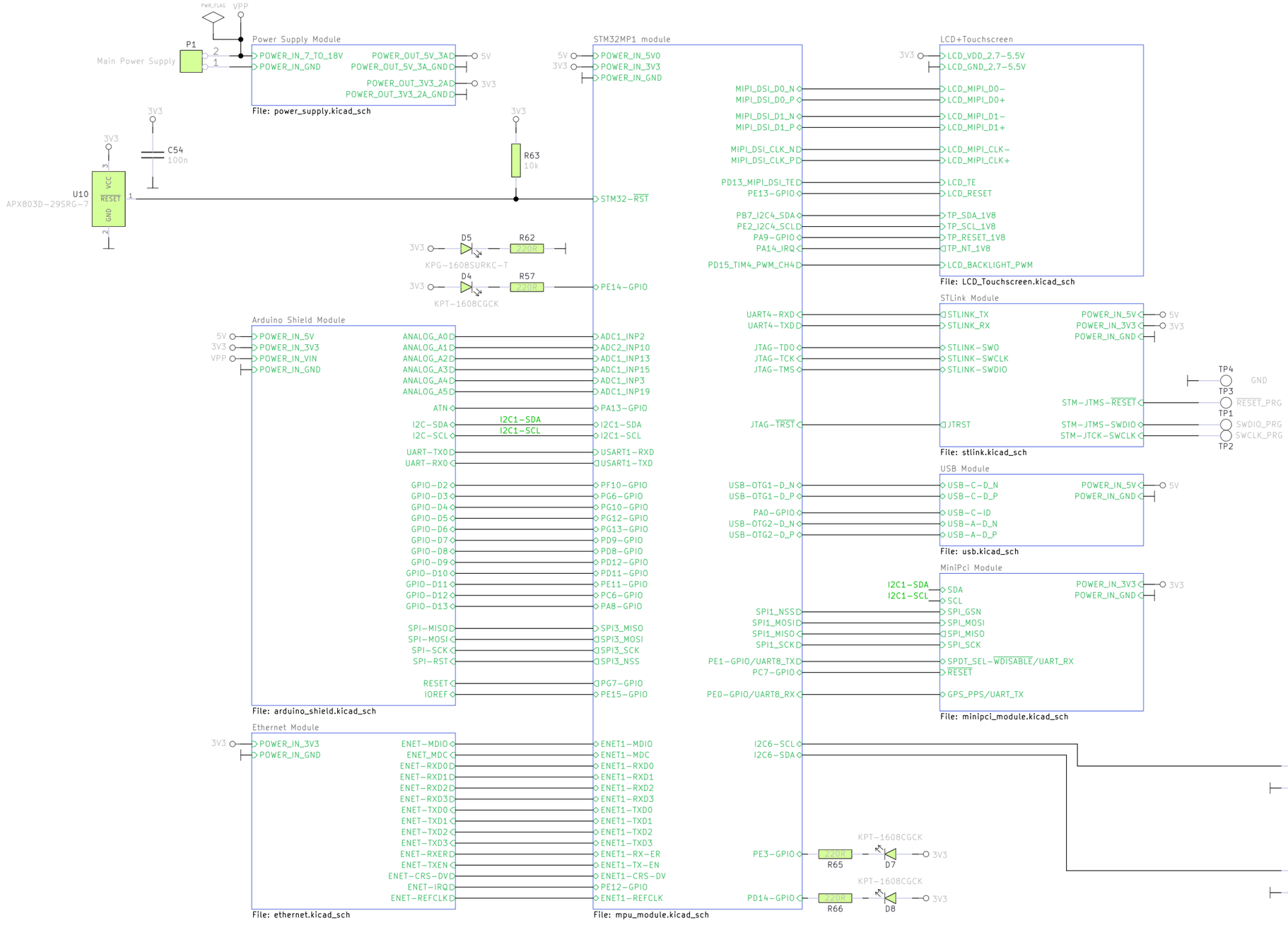


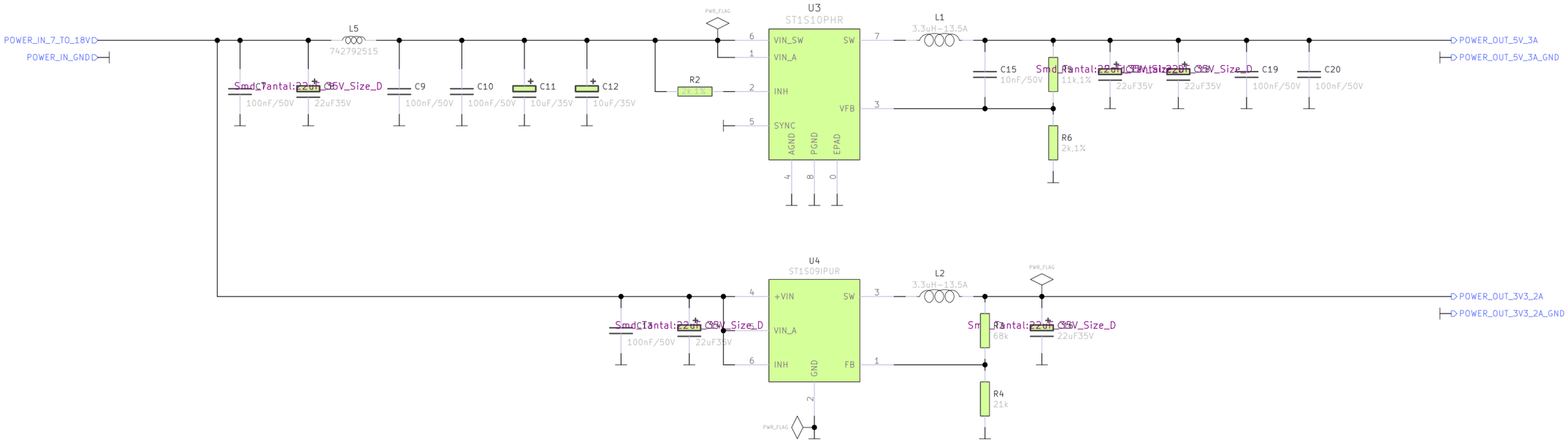
Embedded System Labs

Sheet: /

File: stm32mp1-custom-devboard.kicad_sch

Title: stm32mp1-custom-devboard

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 1/11

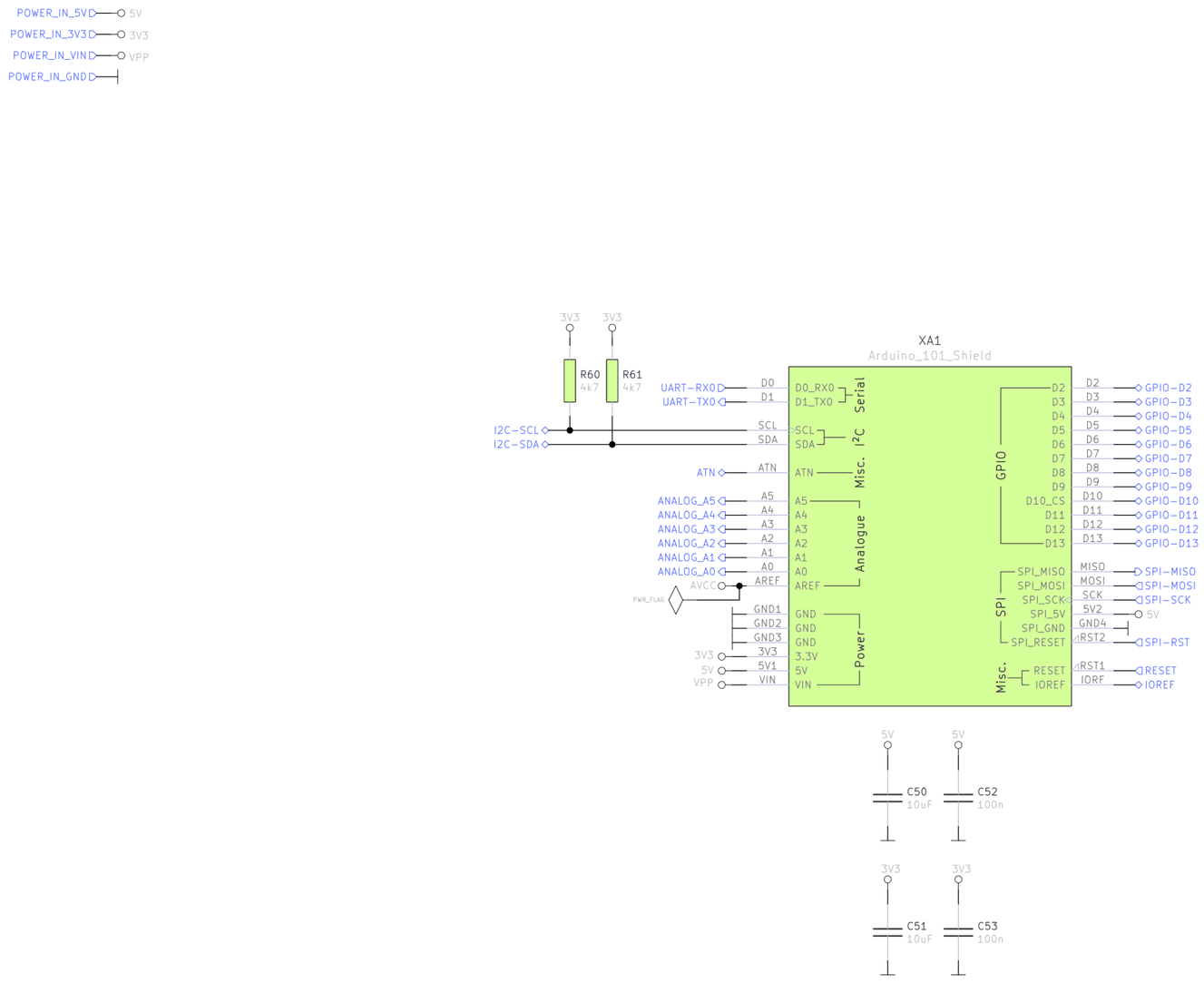


Embedded System Labs

Sheet: /Power Supply Module/
File: power_supply.kicad_sch

Title: Power Supply Module 5V/3V3

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 2/11

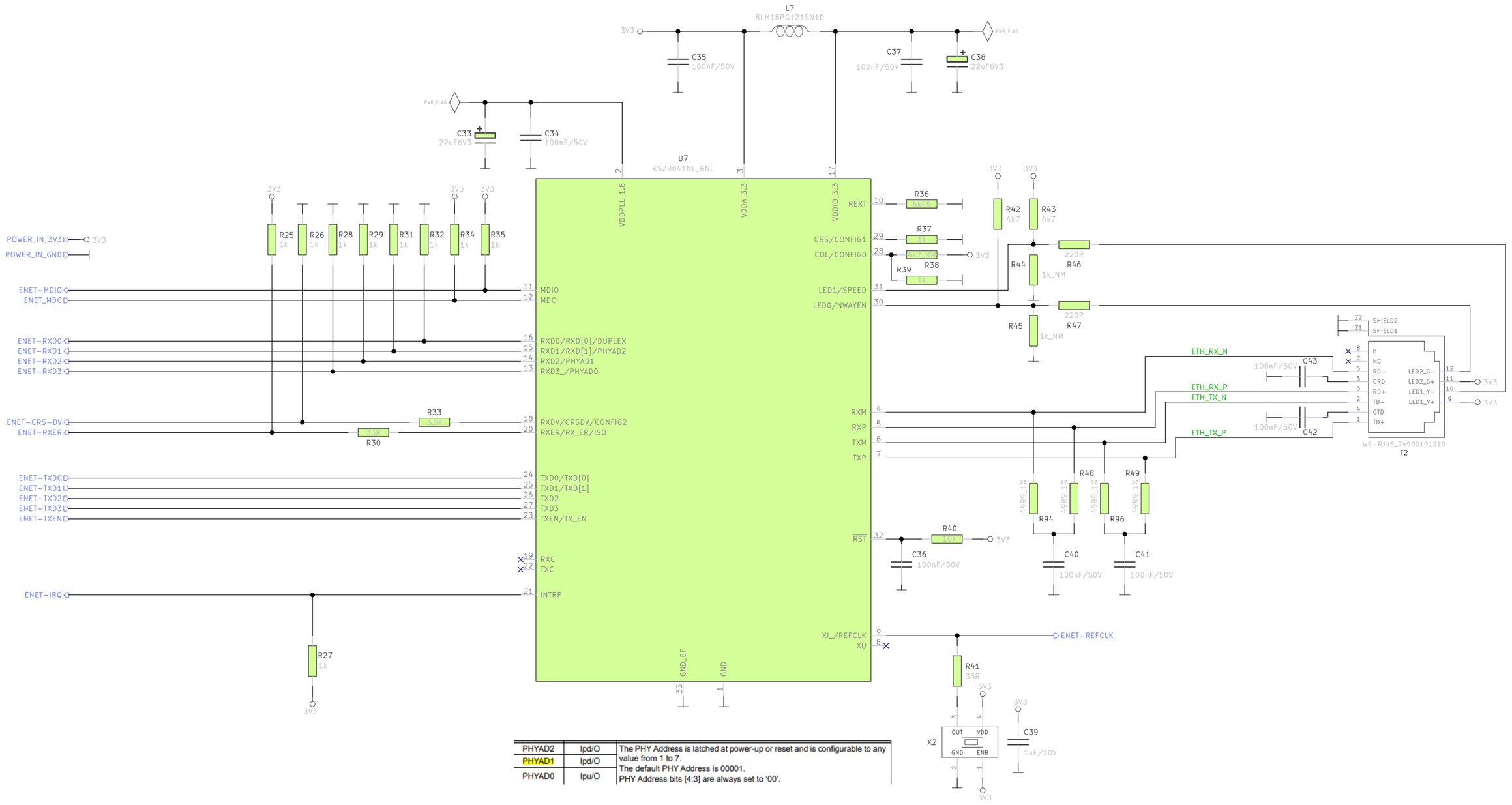


Embedded System Module

Sheet: /Arduino Shield Module/
File: arduino_shield.kicad_sch

Title: Arduino Shield Module

Size: A3	Date: 2020-12-20	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 3/11



PHYAD2	Ipd/O	The PHY Address is latched at power-up or reset and is configurable to any value from 1 to 7. The default PHY Address is 00001. PHY Address bits [4:3] are always set to '00'.
PHYAD1	Ipd/O	
PHYAD0	Ipu/O	

CONFIG[2:0]	Mode
000	MII (default)
001	RMII
010	Reserved - not used
011	Reserved - not used
100	MII 100 Mbps Preamble Restore
101	Reserved - not used
110	Reserved - not used
111	Reserved - not used

Embedded System Labs

Sheet: /Ethernet Module/
File: ethernet.kicad_sch

Title: Ethernet

Size: A3	Date: 2021-01-13	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 4/11

POWER_IN_5V0
POWER_IN_3V3
POWER_IN_GND
5V
3V3

SOM1A
VisionSOM-STM32MP1

12	NC	GND	1
13	NC	GND	2
14	NC	GND	15
16	NC	GND	17
18	NC	GND	20
24	NC	GND	22
30	NC	GND	23
31	NC	GND	26
32	NC	GND	28
33	NC	GND	29
34	NC	GND	35
36	NC	GND	38
37	NC	GND	40
39	NC	GND	41
42	NC	GND	50
44	NC	GND	51
83	NC	GND	59
86	NC	GND	60
94	NC	GND	70
95	NC	GND	71
105	NC	GND	81
123	NC	GND	82
126	NC	GND	84
183	NC	GND	103
187	NC	GND	107
190	NC	GND	115
191	NC	GND	116
196	NC	GND	120
197	NC	GND	125
198	NC	GND	127
		GND	128
		GND	130
		GND	132
6	VDD_3V3	GND	135
8	VDD_COIN_3V	GND	136
		GND	146
		GND	147
85	+3.3VOUT	GND	156
87	+3.3VOUT	GND	159
88	+3.3VOUT	GND	165
89	+3.3VOUT	GND	168
90	+3.3VOUT	GND	170
91	+3.3VOUT	GND	172
92	+3.3VOUT	GND	174
93	+3.3VOUT	GND	176
		GND	177
96	+5VIN	GND	178
98	+5VIN	GND	180
100	+5VIN	GND	181
102	+5VIN	GND	182
104	+5VIN	GND	184
106	+5VIN	GND	185
108	+5VIN	GND	189
110	+5VIN	GND	199
112	+5VIN	GND	200

PWR_FLAG
C55 100n
C56 100n
3V3
5V
R51 10k
R53 10k
R55 10k
R52 10k
R54 10k
R56 10k

SOM1B
VisionSOM-STM32MP1

9	BOOT0	
7	BOOT1	
10	BOOT2	
5	PWR_ON	
3	PWR_LP	
43	JTAG_TDI	
46	JTAG_TMS	JTAG-TMS
48	JTAG_nTRST	JTAG-TRST
52	JTAG_TDO	JTAG-TDO
54	JTAG_TCK	JTAG-TCK
4	STM32_nRST	STM32-RST

SOM1C
VisionSOM-STM32MP1

11	USB_OTG2_VBUS	
25	USB_OTG2_DP	USB-OTG2-D_P
27	USB_OTG2_DN	USB-OTG2-D_N
19	USB_OTG1_DP	USB-OTG1-D_P
21	USB_OTG1_DN	USB-OTG1-D_N

SOM1J
VisionSOM-STM32MP1

195	DSI_CKP	MIPI_DSI_CLK_P
193	DSI_CKN	MIPI_DSI_CLK_N
194	DSI_D1P	MIPI_DSI_D1_P
192	DSI_D1N	MIPI_DSI_D1_N
188	DSI_D0P	MIPI_DSI_D0_P
186	DSI_D0N	MIPI_DSI_D0_N

SOM1D
VisionSOM-STM32MP1

61	PA2_TIM2_CH3,TIM5_CH3,LPTIM4_OUT,TIM15_CH1,USART2_TX,SAI2_SCK_B,SDMMC2_D0DIR,_ETH1_MDIO,_MDIOS_MDIO,_LCD_R1,_EVENTOUT,_ADC1_INP14,_WKUP2	ENET1-MDIO
101	PA7_TIM1_CH1N,TIM3_CH2,TIM8_CH1N,SAI4_D1,SPI1_MOSI/I2S1_SDO,SPI6_MOSI,TIM14_CH1,QUADSPI_CLK,ETH1_GMII_RX_DV/ETH1_MII_RX_DV/ETH1_RGMII_RX_CTL/ETH1_RMII_CRS_DV,SAI4_SD_A,_EVENTOUT,ADC1_INP7,ADC1_INN3,ADC2_INP7,ADC2_INN3	ENET1-CRS-DV
157	PA1_ETH_CLK,TIM2_CH2,TIM5_CH2,LPTIM3_OUT,TIM15_CH1N,USART2_RTS/USART2_DE,UART4_RX,QUADSPI_BK1_IO3,SAI2_MCLK_B,ETH1_GMII_RX_CLK/ETH1_MII_RX_CLK/ETH1_RGMII_RX_CLK/ETH1_RMII_REF_CLK,LCD_R2,EVENTOUT,ADC1_INP17,ADC1_INN16	ENET1-REFCLK
149	PA3_TIM2_CH4,TIM5_CH4,LPTIM5_OUT,TIM15_CH2,USART2_RX,LCD_B2,ETH1_GMII_COL/ETH1_MII_COL,LCD_B5,EVENTOUT,ADC1_INP15,PVD_IN	ADC1_INP15
131	PA8_MCO1,TIM1_CH1,TIM8_BKIN2,I2C3_SCL,SPI3_MOSI/I2S3_SDO,USART1_CK,SDMMC2_CKIN,SDMMC2_D4,OTG_FS_SOF/OTG_HS_SOF,SAI4_SD_B,UART7_RX,LCD_R6,EVENTOUT,	PA8-GPIO
129	PA9_TIM1_CH2,I2C3_SMBA,SPI2_SCK/I2S2_CK,USART1_TX,SDMMC2_CDIR,SDMMC2_D5,DCMI_D0,LCD_R5,EVENTOUT	PA9-GPIO
117	PA14_DBTRGO,DBTRGI,MCO2,EVENTOUT	PA14_IRQ
113	PA13_DBTRGO,DBTRGI,MCO1,UART4_TX,EVENTOUT,BOOTFAILN	PA13-GPIO
69	PA10_TIM1_CH3,SPI3_NSS/I2S3_WS,USART1_RX,MDIOS_MDIO,SAI4_FS_B,DCMI_D1,LCD_B1,EVENTOUT,OTG_FS_ID,OTG_HS_ID	SPI3_NSS
162	PA4_HDP0,TIM5_ETR,SAI4_D2,SPI1_NSS/I2S1_WS,SPI3_NSS/I2S3_WS,USART2_CK,SPI6_NSS,SAI4_FS_A,DCMI_HSYNC,LCD_VSYNC,EVENTOUT,ADC1_INP18,ADC2_INP18,DAC_OUT1	SPI1_NSS
152	PA6_TIM1_BKIN,TIM3_CH1,TIM8_BKIN,SAI4_CK2,SPI1_MISO/I2S1_SDI,SPI6_MISO,TIM13_CH1,MDIOS_MDC,SAI4_SCK_A,DCMI_PIXCLK,LCD_G2,EVENTOUT,ADC1_INP3,ADC2_INP3	ADC1_INP3
140	PA5_TIM2_CH1/TIM2_ETR,TIM8_CH1N,SAI4_CK1,SPI1_SCK/I2S1_CK,SPI6_SCK,SAI4_MCLK_A,LCD_R4,EVENTOUT,ADC1_INP19,ADC1_INN18,ADC2_INP19,ADC2_INN18,DAC_OUT2	ADC1_INP19
80	PA12_TIM1_ETR,I2C6_SDA,I2C5_SDA,UART4_TX,USART1_RTS/USART1_DE,SAI2_FS_B,FDCAN1_TX,LCD_R5,EVENTOUT,OTG_FS_DP	I2C6-SDA
76	PA11_TIM1_CH4,I2C6_SCL,I2C5_SCL,SPI2_NSS/I2S2_WS,UART4_RX,USART1_CTS/USART1_NSS,FDCAN1_RX,LCD_R4,EVENTOUT,OTG_FS_DM	I2C6-SCL
62	PA0_TIM2_CH1/TIM2_ETR,TIM5_CH1,TIM8_ETR,TIM15_BKIN,USART2_CTS/USART2_NSS,UART4_TX,SDMMC2_CMD,SAI2_SD_B,ETH1_GMII_CRS/ETH1_MII_CRS,EVENTOUT	PA0-GPIO

SOM1E
VisionSOM-STM32MP1

175	PB3_TRACED9,TIM2_CH2,SAI4_CK1,SPI1_SCK/I2S1_CK,SPI3_SCK/I2S3_CK,SPI6_SCK,SDMMC2_D2,SAI4_MCLK_A,UART7_RX,EVENTOUT	SPI1_SCK
171	PB15_RTC_REFIN,TIM1_CH3N,TIM12_CH2,TIM8_CH3N,USART1_RX,SPI2_MOSI/I2S2_SDO,DFSDM1_CKIN2,SDMMC2_D1,EVENTOUT	USART1-RXD
169	PB4_TRACED8,TIM16_BKIN,TIM3_CH1,SAI4_CK2,SPI1_MISO/I2S1_SDI,SPI3_MISO/I2S3_SDI,SPI2_NSS/I2S2_WS,SPI6_MISO,SDMMC2_D3,SAI4_SCK_A,UART7_TX,EVENTOUT	SPI1_MISO
167	PB14_TIM1_CH2N,TIM12_CH1,TIM8_CH2N,USART1_TX,SPI2_MISO/I2S2_SDI,DFSDM1_DATIN2,USART3_RTS/USART3_DE,SDMMC2_D0,EVENTOUT	USART1-TXD
151	PB8_HDP6,TIM16_CH1,TIM4_CH3,DFSDM1_CKIN7,I2C1_SCL,SDMMC1_CKIN,I2C4_SCL,SDMMC2_CKIN,UART4_RX,FDCAN1_RX,SDMMC2_D4,ETH1_GMII_TXD3/ETH1_MII_TXD3/ETH1_RGMII_TXD3,SDMMC1_D4,DCMI_D6,LCD_B6,_EVENTOUT	ENET1-TXD3
77	PB2_TRACED4,RTC_OUT2,SAI1_D1,DFSDM1_CKIN1,USART1_RX,I2S_CKIN,SAI1_SD_A,SPI3_MOSI/I2S3_SDO,UART4_RX,QUADSPI_CLK,EVENTOUT	UART4-RXD
73	PB6_TIM16_CH1N,TIM4_CH1,I2C1_SCL,_CEC,I2C4_SCL,USART1_TX,FDCAN2_TX,QUADSPI_BK1_NCS,DFSDM1_DATIN5,UART5_TX,DCMI_D5,EVENTOUT	I2C1-SCL
166	PB9_HDP7,TIM17_CH1,TIM4_CH4,DFSDM1_DATIN7,I2C1_SDA,SPI2_NSS/I2S2_WS,I2C4_SDA,SDMMC2_CDIR,UART4_TX,FDCAN1_TX,SDMMC2_D5,SDMMC1_CDIR,SDMMC1_D5,DCMI_D7,LCD_B7,EVENTOUT	I2C1-SDA
150	PB10_TIM2_CH3,LPTIM2_IN1,I2C2_SCL,SPI2_SCK/I2S2_CK,DFSDM1_DATIN7,USART3_TX,QUADSPI_BK1_NCS,ETH1_GMII_RX_ER/ETH1_MII_RX_ER,LCD_G4,EVENTOUT	ENET1-RX-ER
138	PB0_TIM1_CH2N,TIM3_CH3,TIM8_CH2N,DFSDM1_CKOUT,UART4_CTS,LCD_R3,ETH1_GMII_RXD2/ETH1_MII_RXD2/ETH1_RGMII_RXD2,MDIOS_MDIO,LCD_G1,EVENTOUT,ADC1_INP9,ADC1_INN5,ADC2_INP9,ADC2_INN5	ENET1-RXD2
124	PB13_TIM1_CH1N,DFSDM1_CKOUT,LPTIM2_OUT,SPI2_SCK/I2S2_CK,DFSDM1_CKIN1,USART3_CTS/USART3_NSS,FDCAN2_TX,ETH1_GMII_TXD1/ETH1_MII_TXD1/ETH1_RGMII_TXD1/ETH1_RMII_TXD1,UART5_TX,EVENTOUT	ENET1-TXD1
118	PB5_ETH_CLK,TIM17_BKIN,TIM3_CH2,SAI4_D1,I2C1_SMBA,SPI1_MOSI/I2S1_SDO,I2C4_SMBA,SPI3_MOSI/I2S3_SDO,SPI6_MOSI,FDCAN2_RX,SAI4_SD_A,ETH1_PPS_OUT,UART5_RX,DCMI_D10,LCD_G7,EVENTOUT	SPI1_MOSI
114	PB11_TIM2_CH4,LPTIM2_ETR,I2C2_SDA,DFSDM1_CKIN7,USART3_RX,ETH1_GMII_TX_EN/ETH1_MII_TX_EN/ETH1_RGMII_TX_CTL/ETH1_RMII_TX_EN,DSI_TE,LCD_G5,EVENTOUT	ENET1-TX-EN
58	PB1_TIM1_CH3N,TIM3_CH4,TIM8_CH3N,DFSDM1_DATIN1,LCD_R6,ETH1_GMII_RXD3/ETH1_MII_RXD3/ETH1_RGMII_RXD3,MDIOS_MDC,LCD_G0,EVENTOUT,ADC1_INP5,ADC2_INP5	ENET1-RXD3
56	PB7_TIM17_CH1N,TIM4_CH2,I2C1_SDA,I2C4_SDA,USART1_RX,SDMMC2_D1,DFSDM1_CKIN5,FMC_NL,DCMI_VSYNC,EVENTOUT	PB7_I2C4_SDA

3V3
R7 4k7

SOM1I
VisionSOM-STM32MP1

139	PF11_SPI5_MOSI,SAI2_SD_B,DCMI_D12,LCD_G5,EVENTOUT,ADC1_INP2	ADC1_INP2
64	PF10_PF10_TIM16_BKIN,SAI1_D3,SAI4_D4,SAI1_D4,QUADSPI_CLK,SAI4_D3,DCMI_D11,_LCD_DE,EVENTOUT	PF10-GPIO
173	PG6_TRACED14,TIM17_BKIN,SDMMC2_CMD,DCMI_D12,LCD_R7,EVENTOUT	PG6-GPIO
45	PG10_TRACED10,UART8_CTS,LCD_G3,SAI2_SD_B,QUADSPI_BK2_IO2,FMC_NE3,DCMI_D2,LCD_B2,EVENTOUT	PG10-GPIO
74	PG7_TRACED5,_SAI1_MCLK_A,_USART6_CK,_UART8_RTS/UART8_DE,_QUADSPI_CLK,_QUADSPI_BK2_IO3,_DCMI_D13,_LCD_CLK,_EVENTOUT	PG7-GPIO
75	PG11_TRACED11,USART1_TX,UART4_TX,SPDIFRX_IN0,ETH1_GMII_TX_EN/ETH1_MII_TX_EN/ETH1_RGMII_TX_CTL/ETH1_RMII_TX_EN,DCMI_D3,LCD_B3,_EVENTOUT	UART4-TXD
109	PG12_LPTIM1_IN1,SPI6_MISO,SAI4_CK2,USART6_RTS/USART6_DE,SPDIFRX_IN1,LCD_B4,SAI4_SCK_A,ETH1_PHY_INTN,FMC_NE4,LCD_B1,EVENTOUT	PG12-GPIO
122	PG13_TRACED0,LPTIM1_OUT,SAI1_CK2,SAI4_CK1,SPI6_SCK,SAI1_SCK_A,USART6_CTS/USART6_NSS,SAI4_MCLK_A,ETH1_GMII_TXD0/ETH1_MII_TXD0/ETH1_RGMII_TXD0/ETH1_RMII_TXD0,FMC_A24,LCD_R0,EVENTOUT	PG13-GPIO
79	PG14_TRACED1,LPTIM1_ETR,SPI6_MOSI,_SAI4_D1,USART6_TX,QUADSPI_BK2_IO3,SAI4_SD_A,ETH1_GMII_TXD1/ETH1_MII_TXD1/ETH1_RGMII_TXD1/ETH1_RMII_TXD1,FMC_A25,LCD_B0,EVENTOUT	ENET1-TXD0

SOM1F
VisionSOM-STM32MP1

141	PC7_HDP4,TIM3_CH2,TIM8_CH2,DFSDM1_DATIN3,I2S3_MCK,USART6_RX,SDMMC1_D123DIR,SDMMC2_D123DIR,SDMMC2_D7,SDMMC1_D7,DCMI_D1,LCD_G6,EVENTOUT	PC7-GPIO
137	PC10_TRACED2,DFSDM1_CKIN5,SPI3_SCK/I2S3_CK,USART3_TX,UART4_TX,QUADSPI_BK1_IO1,SAI4_MCLK_B,SDMMC1_D2,DCMI_D8,LCD_R2,EVENTOUT	SPI3_SCK
119	PC2_DFSDM1_CKIN1,SPI2_MISO/I2S2_SDI,DFSDM1_CKOUT,ETH1_GMII_TXD2/ETH1_MII_TXD2/ETH1_RGMII_TXD2,DCMI_PIXCLK,EVENTOUT,ADC1_INP12,ADC1_INN11	ENET1-TXD2
99	PC5_SAI1_D3,DFSDM1_DATIN2,SAI4_D4,_SAI1_D4,SPDIFRX_IN3,ETH1_GMII_RXD1/ETH1_MII_RXD1/ETH1_RGMII_RXD1/ETH1_RMII_RXD1,_SAI4_D3,EVENTOUT,ADC1_INP8,ADC1_INN4,ADC2_INP8,ADC2_INN4	ENET1-RXD1
97	PC4_DFSDM1_CKIN2,I2S1_MCK,SPDIFRX_IN2,ETH1_GMII_RXD0/ETH1_MII_RXD0/ETH1_RGMII_RXD0/ETH1_RMII_RXD0,EVENTOUT,ADC1_INP4,ADC2_INP4	ENET1-RXD0
55	PC0_DFSDM1_CKIN0,LPTIM2_IN2,DFSDM1_DATIN4,SAI2_FS_B,QUADSPI_BK2_NCS,LCD_R5,EVENTOUT,ADC1_INP10,ADC2_INP10	ADC2_INP10
53	PC1_TRACED0,SAI1_D1,DFSDM1_DATIN0,DFSDM1_CKIN4,SPI2_MOSI/I2S2_SDO,SAI1_SD_A,SDMMC2_CK,ETH1_MDC,MDIOS_MDC,EVENTOUT,ADC1_INP11,ADC1_INN10,ADC2_INP11,ADC2_INN10,TAMP_IN3,WKUP6	ENET1-MDC
47	PC3_TRACECLK,DFSDM1_DATIN1,SPI2_MOSI/I2S2_SDO,ETH1_GMII_TX_CLK/ETH1_MII_TX_CLK,EVENTOUT,ADC1_INP13,ADC1_INN12	ADC1_INP13
160	PC6_HDP1,TIM3_CH1,TIM8_CH1,DFSDM1_CKIN3,I2S2_MCK,USART6_TX,SDMMC1_D0DIR,SDMMC2_D0DIR,SDMMC2_D6,DSI_TE,SDMMC1_D6,DCMI_D0,LCD_HSYNC,EVENTOUT	PC6-GPIO

3V3
R8 4k7
PE2_I2C4_SCL

SOM1H
VisionSOM-STM32MP1

179	PE3_TRACED0,TIM15_BKIN,SAI1_SD_B,SDMMC2_CK,FMC_A19,EVENTOUT	PE3-GPIO
163	PE13_HDP2,TIM1_CH3,DFSDM1_CKIN5,SPI4_MISO,SAI2_FS_B,FMC_D10/FMC_DA10,DCMI_D6,LCD_DE,EVENTOUT	PE13-GPIO
161	PE14_TIM1_CH4,SPI4_MOSI,UART8_RTS/UART8_DE,SAI2_MCLK_B,SDMMC1_D123DIR,FMC_D11/FMC_DA11,LCD_G0,LCD_CLK,EVENTOUT	PE14-GPIO
121	PE2_TRACECLK,SAI1_CK1,I2C4_SCL,SPI4_SCK,SAI1_MCLK_A,QUADSPI_BK1_IO2,ETH1_GMII_TXD3/ETH1_MII_TXD3/ETH1_RGMII_TXD3,FMC_A23,EVENTOUT	
63	PE0_LPTIM1_ETR,TIM4_ETR,LPTIM2_ETR,SPI3_SCK/I2S3_CK,SAI4_MCLK_B,UART8_RX,SAI2_MCLK_A,FMC_NBL0,DCMI_D2,EVENTOUT	PE0-GPIO/UART8_RX
57	PE1_LPTIM1_IN2,I2S2_MCK,SAI3_SD_B,UART8_TX,FMC_NBL1,DCMI_D3,EVENTOUT	PE1-GPIO/UART8_TX
158	PE12_TIM1_CH3N,DFSDM1_DATIN5,SPI4_SCK,SDMMC1_D0DIR,SAI2_SCK_B,FMC_D9/FMC_DA9,LCD_B4,EVENTOUT	PE12-GPIO
148	PE11_TIM1_CH2,DFSDM1_CKIN4,SPI4_NSS,USART6_CK,SAI2_SD_B,FMC_D8/FMC_DA8,DCMI_D4,LCD_G3,EVENTOUT	PE11-GPIO
134	PE15_HDP3,TIM1_BKIN,TIM15_BKIN,USART2_CTS/USART2_NSS,UART8_CTS,FMC_NCE2,FMC_D12/FMC_DA12,LCD_R7,EVENTOUT	PE15-GPIO

SOM1G
VisionSOM-STM32MP1

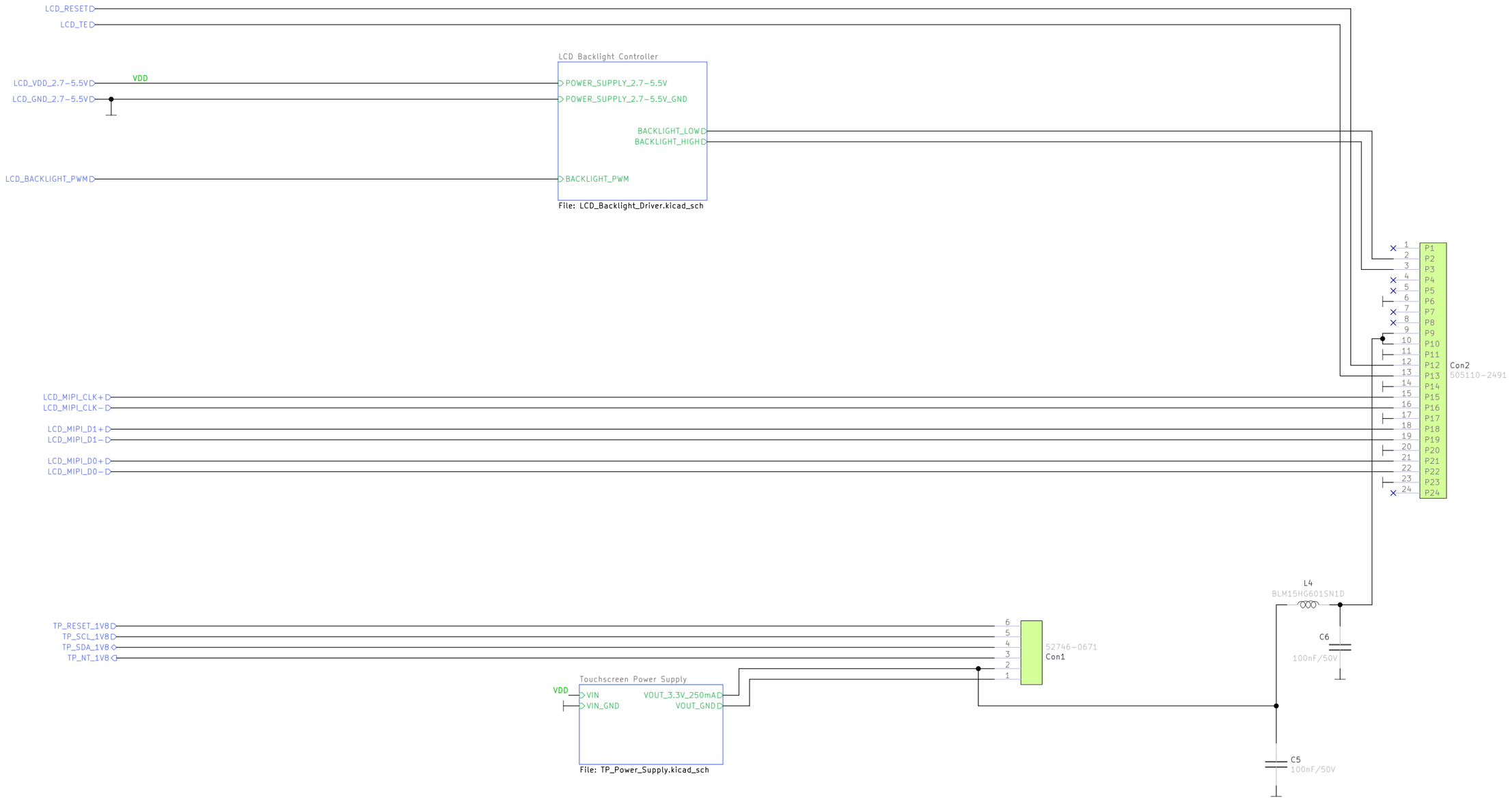
111	PD15_TIM4_CH4,SAI3_MCLK_A,UART8_CTS,FMC_D1/FMC_DA1,LCD_R1,EVENTOUT	PD15_TIM4_PWM_CH4
67	PD9_DFSDM1_DATIN3,SAI3_SD_B,USART3_RX,FMC_D14/FMC_DA14,DCMI_HSYNC,LCD_B0,EVENTOUT	PD9-GPIO
65	PD8_DFSDM1_CKIN3,SAI3_SCK_B,USART3_TX,SPDIFRX_IN1,FMC_D13/FMC_DA13,LCD_B7,EVENTOUT	PD8-GPIO
49	PD13_LPTIM1_OUT,TIM4_CH2,I2C4_SDA,I2C1_SDA,I2S3_MCK,QUADSPI_BK1_IO3,SAI2_SCK_A,FMC_A18,DSI_TE,EVENTOUT	PD13_MIPI_DSI_TE
164	PD6_TIM16_CH1N,SAI1_D1,DFSDM1_CKIN4,DFSDM1_DATIN1,SPI3_MOSI/I2S3_SDO,SAI1_SD_A,USART2_RX,FMC_NWAIT,DCMI_D10,LCD_B2,EVENTOUT	SPI3_MOSI
154	PD10_RTC_REFIN,TIM16_BKIN,DFSDM1_CKOUT,I2C5_SMBA,SPI3_MISO/I2S3_SDI,SAI3_FS_B,USART3_CK,FMC_D15/FMC_DA15,LCD_B3,EVENTOUT	SPI3_MISO
78	PD12_LPTIM1_IN1,TIM4_CH1,LPTIM2_IN1,I2C4_SCL,I2C1_SCL,USART3_RTS/USART3_DE,QUADSPI_BK1_IO1,SAI2_FS_A,FMC_ALE/FMC_A17,EVENTOUT	PD12-GPIO
72	PD11_LPTIM2_IN2,I2C4_SMBA,I2C1_SMBA,USART3_CTS/USART3_NSS,QUADSPI_BK1_IO0,SAI2_SD_A,FMC_CLE/FMC_A16,EVENTOUT	PD11-GPIO
66	PD14_TIM4_CH3,_SAI3_MCLK_B,UART8_CTS,FMC_AD0/FMC_D0,_EVENTOUT	PD14-GPIO

Embedded System Labs

Sheet: /STM32MP1 module/
File: mpu_module.kicad_sch

Title: STM32MP1 Module

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 5/11

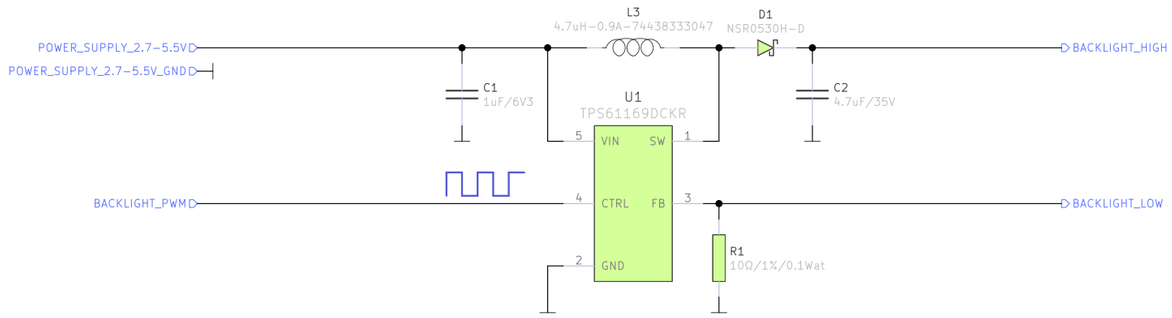


5.0 IPS 720X1280 MIPI +CTP
PH720128T004-ZBC02
Embedded System Labs

Sheet: /LCD+Touchscreen/
File: LCD_Touchscreen.kicad_sch

Title: LCD MiPi and Touchscreen module

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 6/11

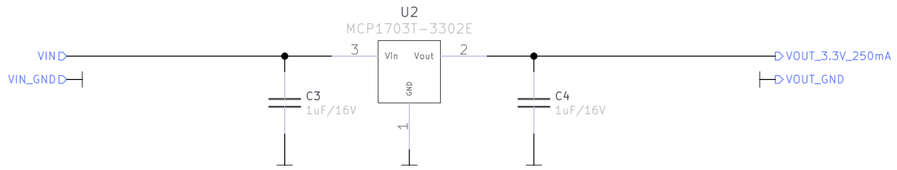


Embedded System Labs

Sheet: /LCD+Touchscreen/LCD Backlight Controller/
File: LCD_Backlight_Driver.kicad_sch

Title: LCD Backlight Controller

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 7/11

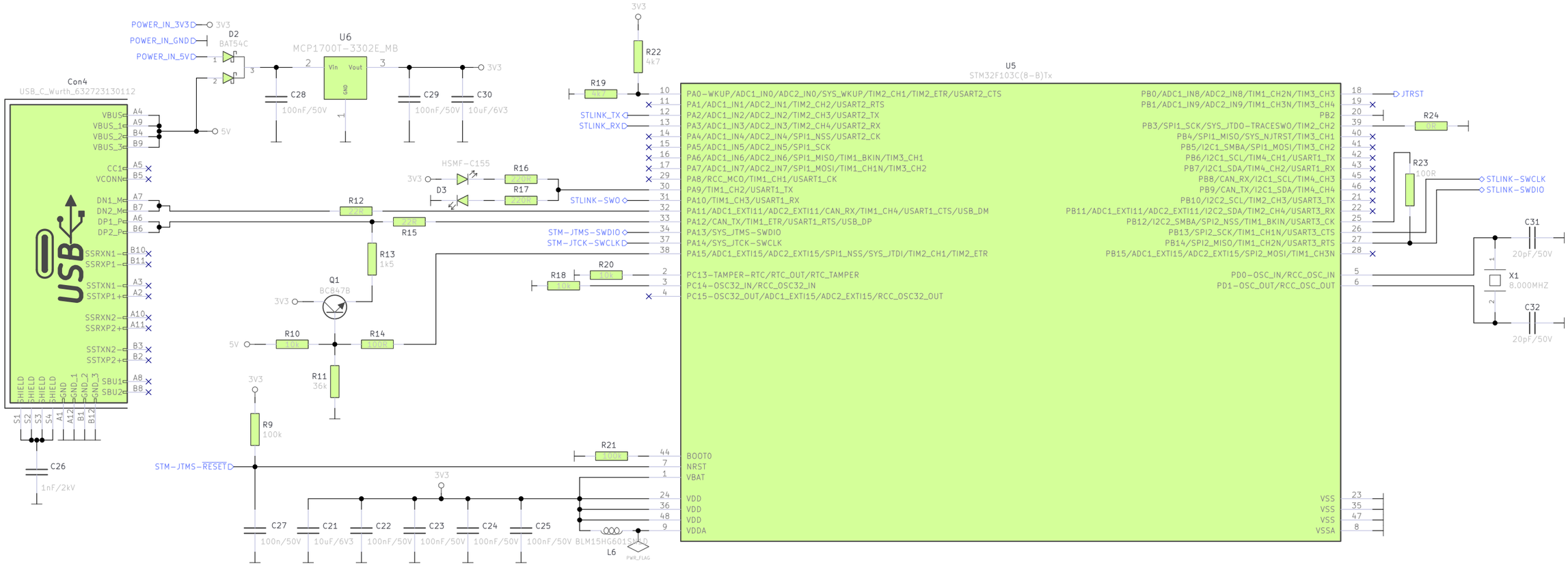


Embedded System Labs

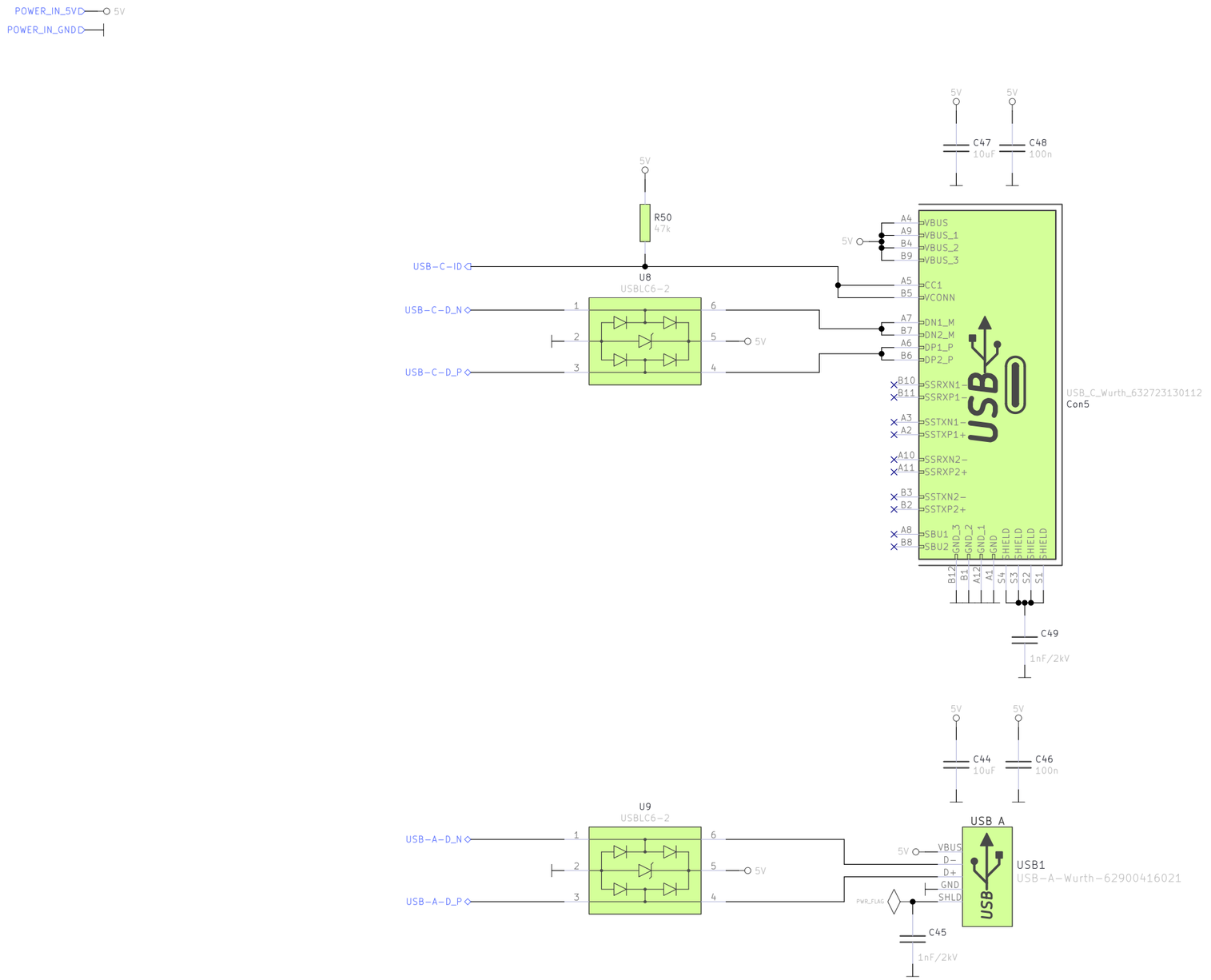
Sheet: /LCD+Touchscreen/Touchscreen Power Supply/
File: TP_Power_Supply.kicad_sch

Title: 2.8V LDO Regulator

Size: A3	Date: 2020-12-19	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 8/11



Embedded System Labs		
Sheet: /STLink Module/ File: stlink.kicad_sch		
Title: STLink Module		
Size: A3	Date: 2020-12-20	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 9/11



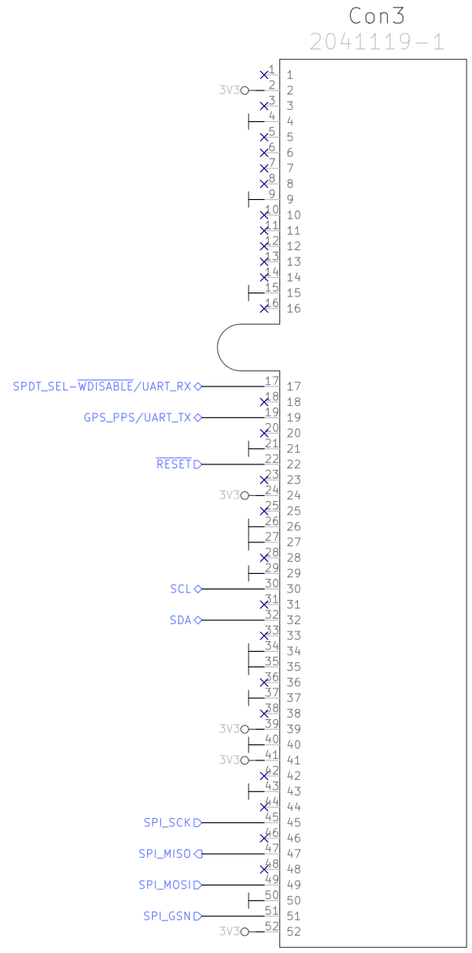
Embedded System Labs

Sheet: /USB Module/
File: usb.kicad_sch

Title: USB Section

Size: A3	Date: 2021-01-13	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 10/11

POWER_IN_3V3
3V3
POWER_IN_GND



Embedded System Labs

Sheet: /MiniPci Module/
File: minipci_module.kicad_sch

Title: Minipci Module

Size: A3	Date: 2021-01-10	**Rev: V1.0**
KiCad E.D.A. kicad (5.99.0-9713-g2bc22de1a5)		Id: 11/11