GND
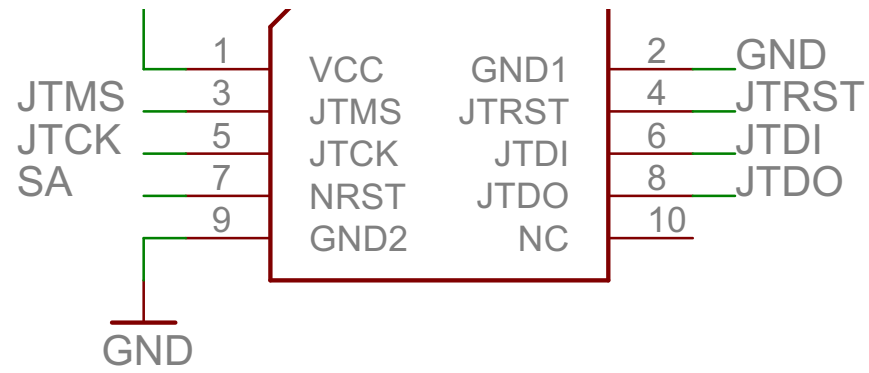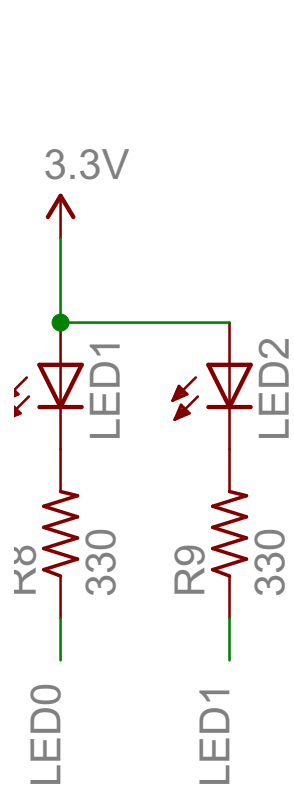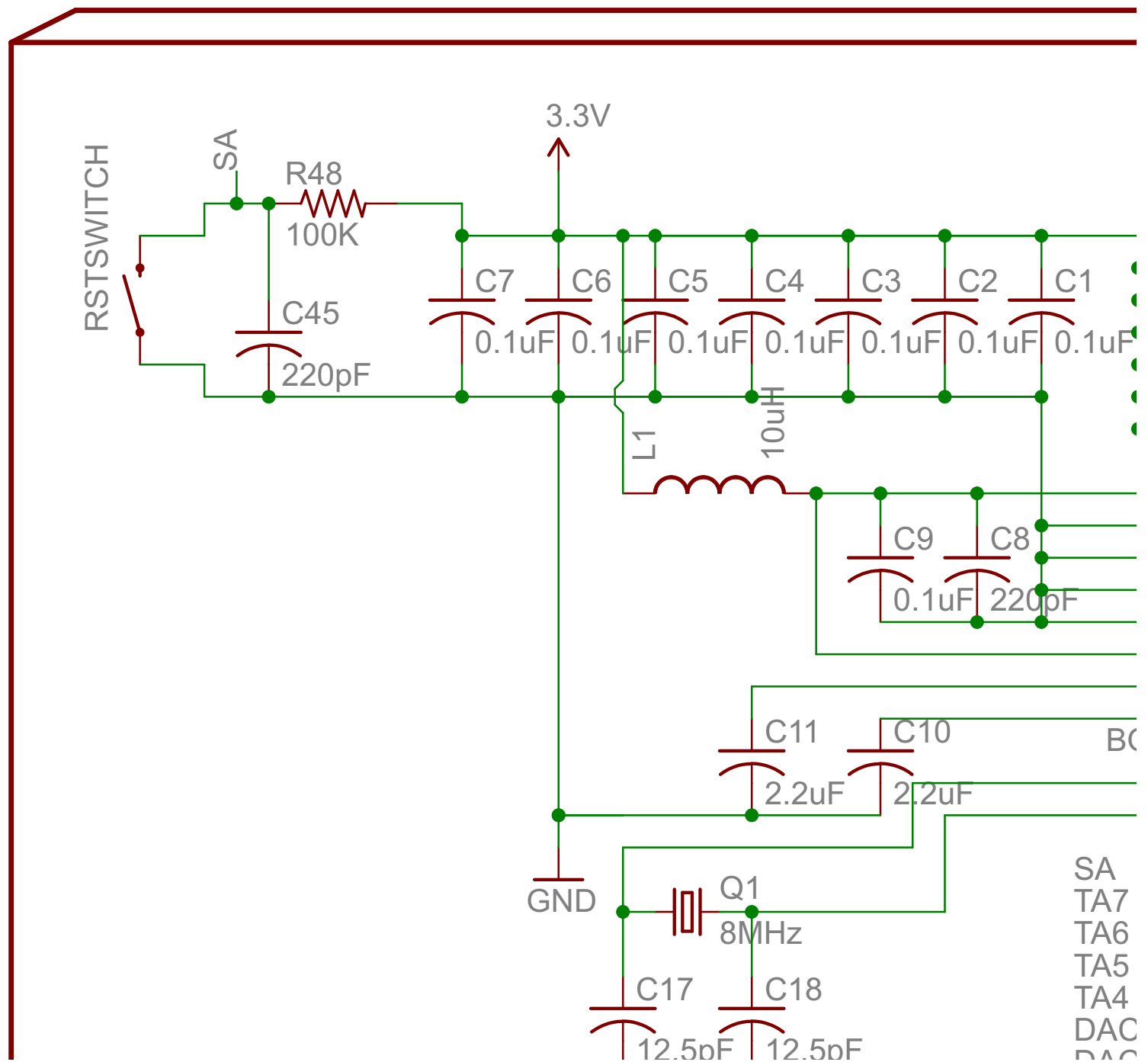
DAC
TA3
TA2
MCC
COM
COM
USB
USB
JTM
JTCI
JTDI
TA1
TA0
BOC
JTDC
JTRS
T4
T3
T2
T1
T0
T13
T14
D7
SDIO_DE
T12
T11

Pin	Left Signal
30	PA5/DAC2
31	PA6/TIM13_CH1/TIM3_CH1
32	PA7/TIM14_CH1/TIM3_CH2
67	PA8/MCO
68	PA9/USB_VBUS/USART1_TX
69	PA10/USB_ID/USART1_RX
70	PA11/USB_DM/TIM1_CH4
71	PA12/USB_DP/CAN1_TX
72	PA13/JTMS
76	PA14/JTCK
77	PA15/JTDI
35	PB0/TIM3_CH3
36	PB1/TIM3_CH4
37	PB2/BOOT1
89	PB3/JTDO
90	PB4/NJTRST
91	PB5/TIM3_CH2
92	PB6/USART1_TX
93	PB7/USART1_RX
95	PB8/TIM4_CH3
96	PB9/TIM4_CH4
47	PB10/USART3_TX
48	PB11/USART3_RX
51	PB12/CAN2_RX
52	PB13/CAN2_TX
53	PB14/TIM12_CH1
54	PB15/TIM12_CH2

Middle column signals:

- PD9/FSMC_D14
- PD10/FSMC_D15
- PD11/FSMC_A16
- PD12/FSMC_A17/TIM4_CH1
- PD13/FSMC_A18/TIM4_CH2
- PD14/FSMC_D0/TIM4_CH3
- PD15/FSMC_D1/TIM4_CH4
- PE0
- PE1
- PE2/FSMC_A23
- PE3/FSMC_A19
- PE4/FSMC_A20
- PE5/FSMC_A21/TIM9_CH2
- PE6/FSMC_A22/TIM9_CH2
- PE7/FSMC_D4
- PE8/FSMC_D5
- PE9/FSMC_D6
- PE10/FSMC_D7
- PE11/FSMC_D8
- PE12/FSMC_D9
- PE13/FSMC_D10
- PE14/FSMC_D11
- PE15/FSMC_D12

Right column:

Pin	Signal
56	COM3_RX
57	SPI_MOSI
58	FLASH_CS
59	T10
60	T9
61	T8
62	T7
97	D0
98	D1
1	D2
2	D3
3	D4
4	D5
5	D6
38	D16
39	D15
40	D14
41	D13
42	D12
43	D11
44	D10
45	D9
46	D8

3.3V

LED1   LED2

LED0   LED1

R8 330   R9 330

1	VCC	GND1	2	GND
JTMS 3	JTMS	JTRST	4	JTRST
JTCK 5	JTCK	JTDI	6	JTDI
SA 7	NRST	JTDO	8	JTDO
9	GND2	NC	10	

GND

RSTSWITCH

SA

R48
100K

C45
220pF

3.3V

C7	C6	C5	C4	C3	C2	C1
0.1uF	0.1uF	0.1uF	0.1uF	0.1uF	0.1uF	0.1uF

L1

10uH

C9   C8
0.1uF 220pF

C11   C10
2.2uF 2.2uF

BC

GND

Q1
8MHz

C17   C18
12.5pF 12.5pF

SA
TA7
TA6
TA5
TA4
DAC
DAC

STM32F20X

Pin	Left Signal		Right Signal	Pin
6	VBAT	PC0/OTG_HS_ULPI_STP	TA11	15
50	VDD1	PC1/ETH_MDC	TA10	16
75	VDD2	PC2/OTG_HS_ULPI_STP	TA9	17
100	VDD3	PC3/OTG_HS_ULPI_NXT	TA8	18
28	VDD4	PC4	LED1	33
11	VDD5	PC5	LED0	34
19	VDD12	PC6/TIM8_CH1/TIM3_CH1	T6	63
22	VDDA	PC7/TIM8_CH2/TIM3_CH2	T5	64
20	VSSA	PC8/TIM8_CH3/SDIO_D0	SDIO_D0	65
74	VSS2	PC9/TIM8_CH4/SDIO_D1	SDIO_D1	66
27	VSS4	PC10/SDIO_D2	SDIO_D2	78
10	VSS5	PC11/SDIO_D3	SDIO_D3	79
21	VREF+	PC12/SDIO_CK	SDIO_CK	80
49	VCAP1	PC13	USB_DISC	7
73	VCAP2	PC14/OSC32_IN		8
94	BOOT0	PC15/OSC32_OUT		9
12	PH0/OSC_IN	PD0/FSMC_D2	RF24_CE	81
13	PH1/OSC_OUT	PD1/FSMC_D3	RF24_CS	82
99	RFU	PD2/SDIO_CMD	SDIO_CMD	83
14	RST	PD3/FSMC_CLK	RF24_IRQ	84
23	PA0/WKUP	PD4/FSMC_NOE	SPI_SCK	85
24	PA1/TIM5_CH1/TIM2_CH3	PD5/USART2_TX	COM2_TX	86
25	PA2/USART2_TX	PD6/USART2_RX	COM2_RX	87
26	PA3/USART2_RX	PD7/FSMC_NE1	SPI_MISO	88
29	PA4/DAC1	PD8/FSMC_D13	COM3_TX	55
30			COM3_RX	56

BOOT0

C19

18p

3.3V

R17
SJ1
BOOT0
47K

R18
SJ2
BOOT1
47K

C20
18pF
GND

GND

CM415

3.3V