

VIN

5V

3V3

GND

C13

C14

R6

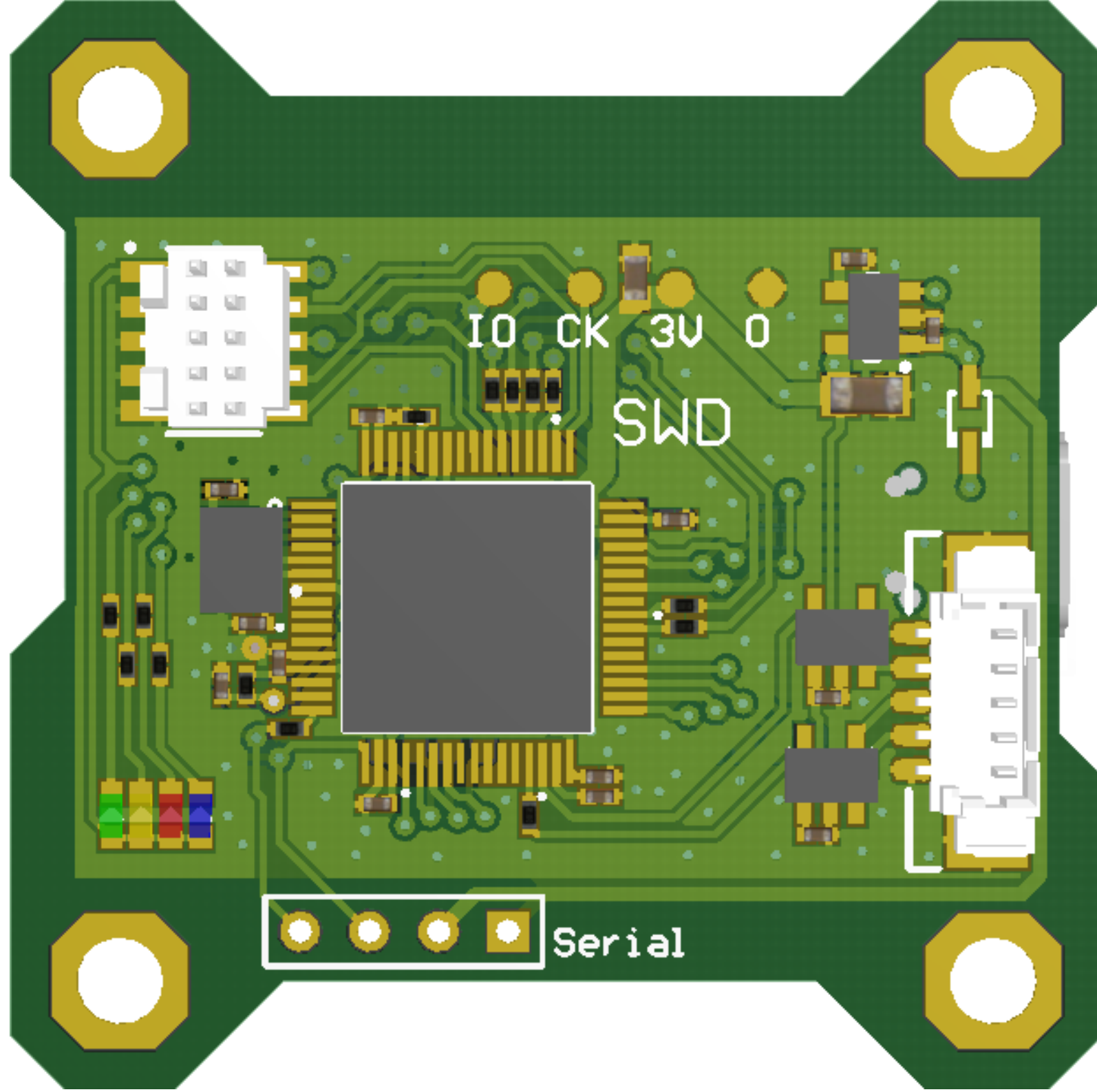
R7

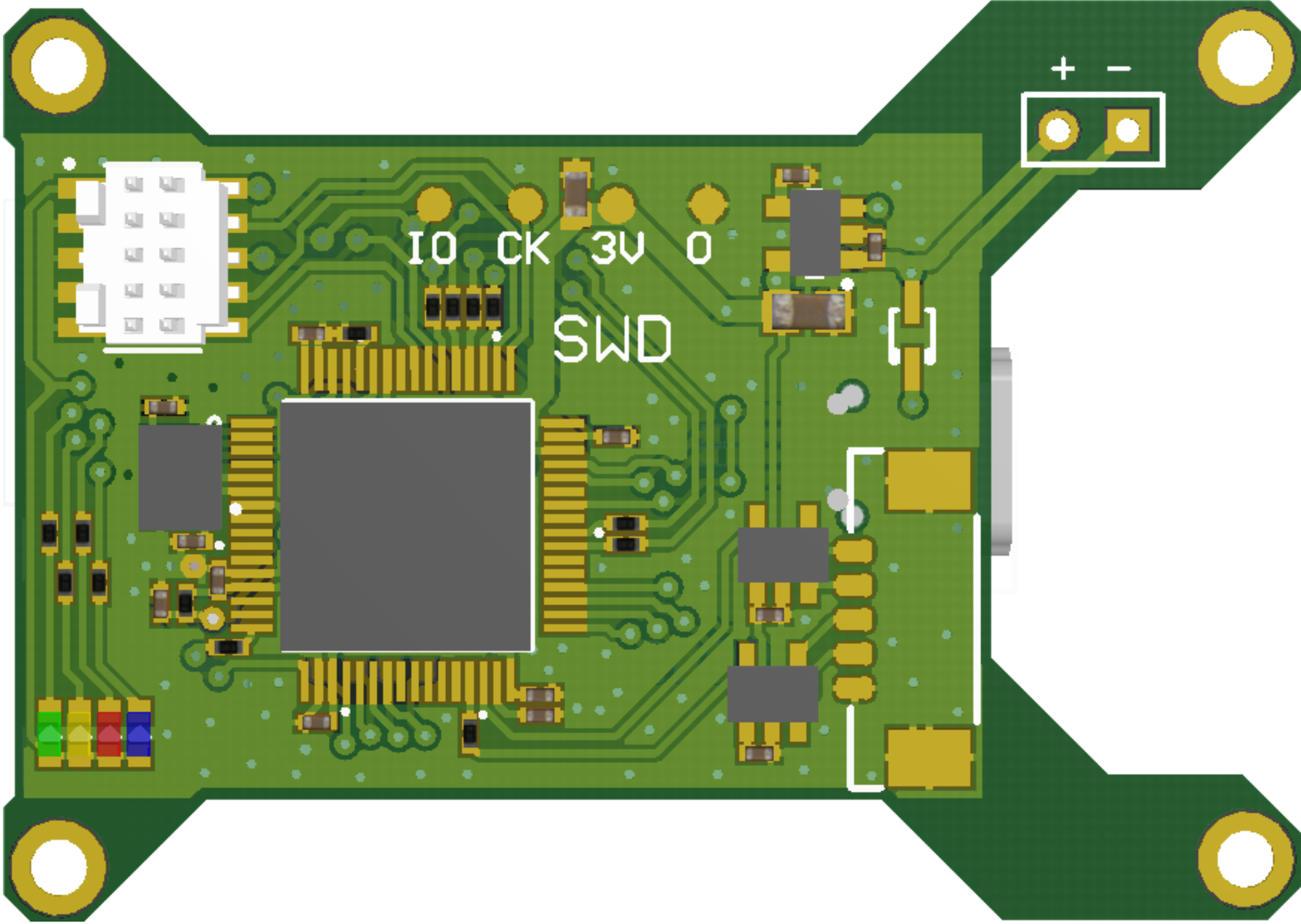
RST

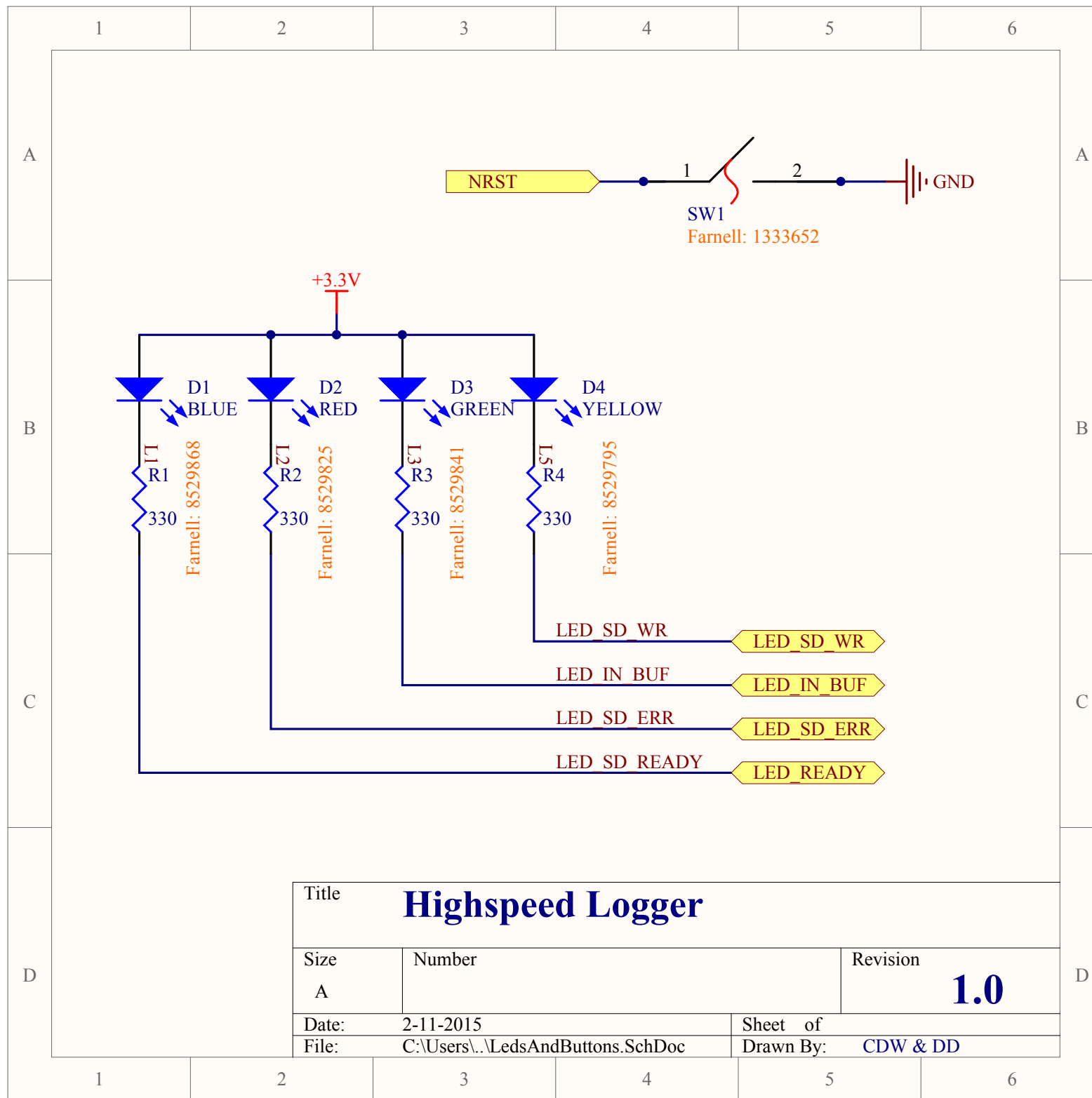
SPI2

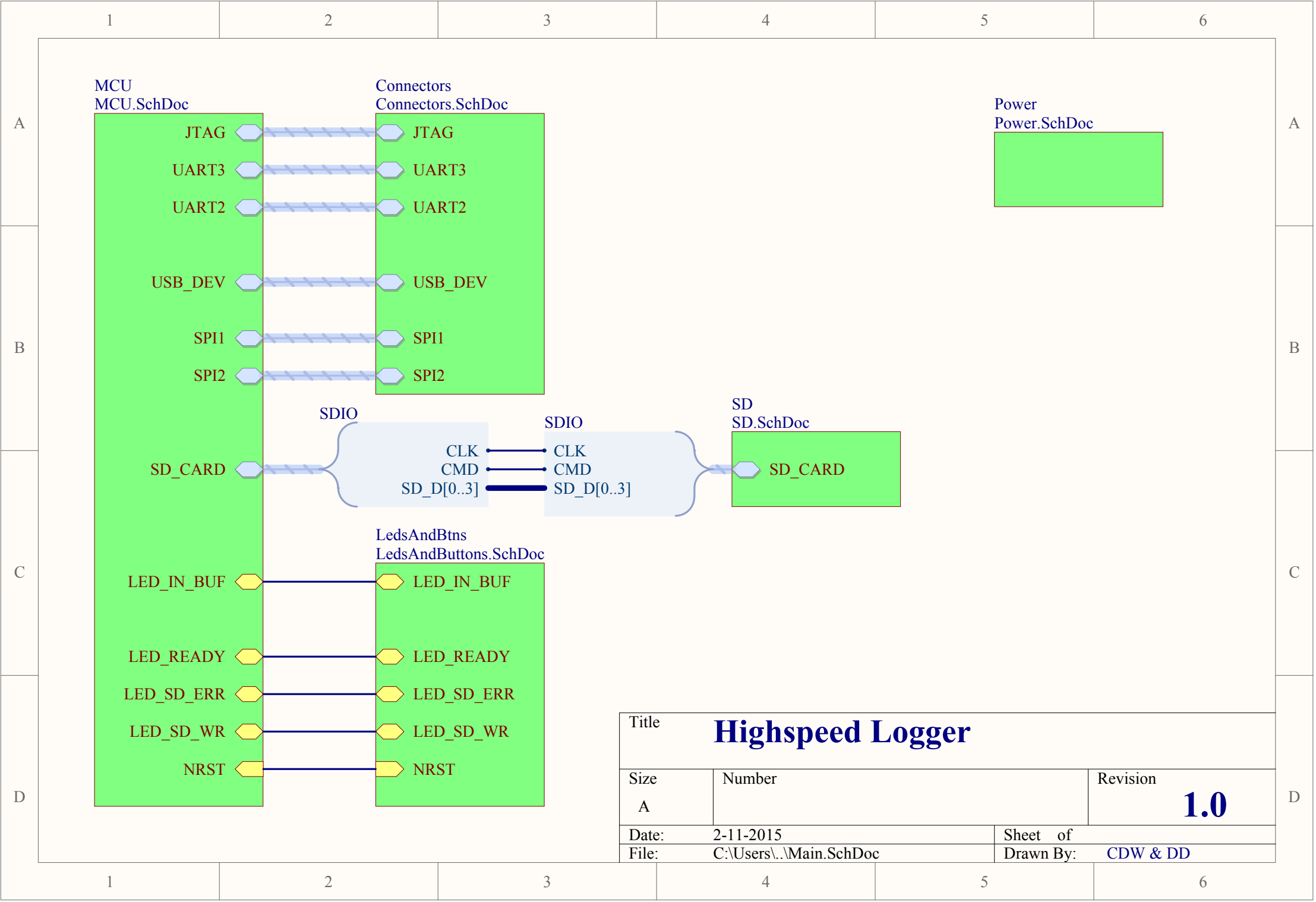
SPI1

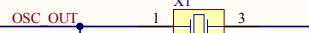
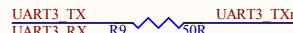
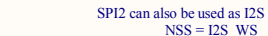
UART2



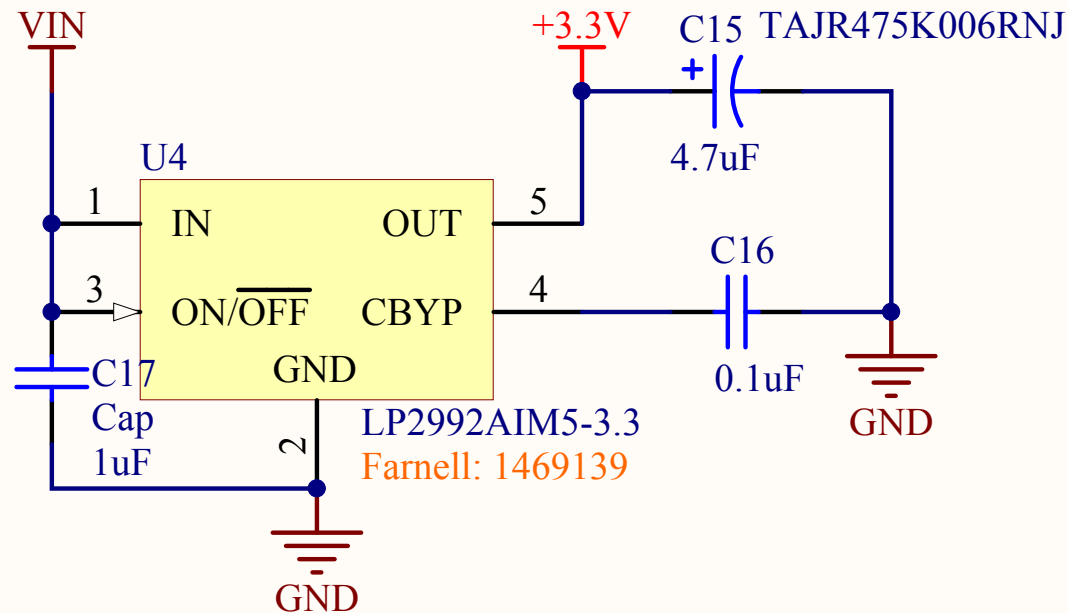








Date:	2-11-2015	Sheet of	
File:	C:\Users\...\MCU.SchDoc	Drawn By:	CDW & DD



Title

Highspeed Logger

Size

A

Number

Revision

1.0

Date:

2-11-2015

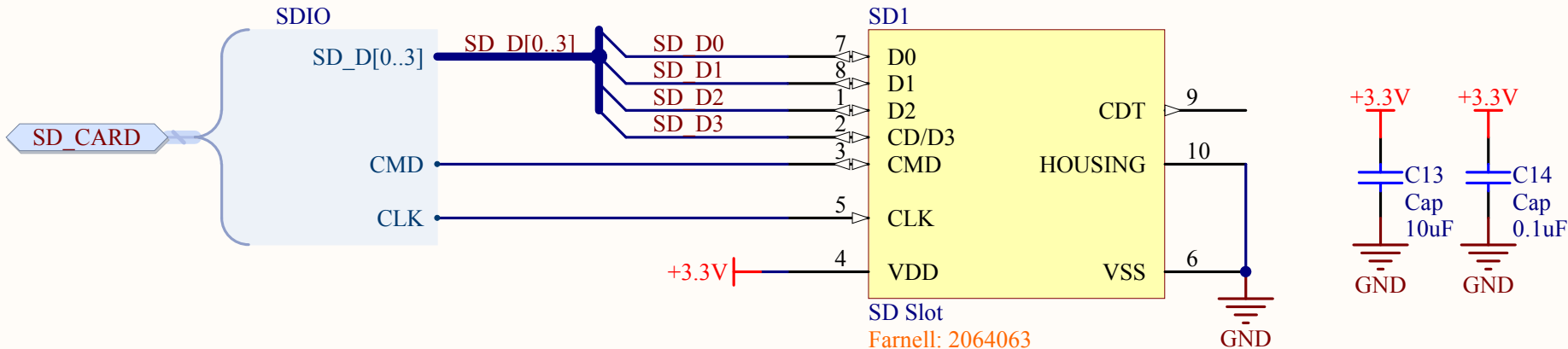
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C:\Users\...\Power.SchDoc

Drawn By:

CDW & DD



Title				Highspeed Logger	
Size	Number			Revision	
A				1.0	
Date:	2-11-2015			Sheet	of
File:	C:\Users\..\SD.SchDoc			Drawn By: CDW & DD	

Quantity	Designator	Value	Footprint	Comment	Description	Farnell
8	C1, C2, C5, C10, C11, C12, C14, C16	0.1uF	V0402	Cap	Capacitor	
1	C3	10nF	V0402	Cap	Capacitor	
2	C4, C13	10uF	V0603	Cap	Capacitor	
2	C6, C7	2.2uF	V0402	Cap	Capacitor	
2	C8, C9	22pF	V0402	Cap	Capacitor	
1	C15	4.7uF	0805	TAJR475K006RNJ	Polarized Capacitor (Surface Mount)	
1	C17	1uF	V0402	Cap	Capacitor	
1	D1		KP-1608SURC_R	BLUE	Typical RED, GREEN, YELLOW, AMBER GaAs LED	8529868
1	D2		KP-1608SURC_B	RED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	8529825
1	D3		KP-1608SURC_Y	GREEN	Typical RED, GREEN, YELLOW, AMBER GaAs LED	8529841
1	D4		KP-1608SURC_G	YELLOW	Typical RED, GREEN, YELLOW, AMBER GaAs LED	8529795
1	D5		SOD-323	D Schottky	Schottky Diode	
1	JTAG		FTSH-105-01-L-DV-K-TR	20 pin connector		
4	R1, R2, R3, R4	330	V0402RES	Res3	Resistor	
2	R5, R9	50R	V0402RES	Res3	Resistor	
2	R6, R7	20R	V0402RES	Res3	Resistor	
2	R8, R10	33k	V0402RES	Res3	Resistor	
5	R11, R12, R13, R14, R16	10R	V0402RES	Place close to MCU	Resistor	
1	R15	33R	V0402RES	Place close to MCU	Resistor	
1	SD1		MICROSD-card	SD Slot		2064063
3	SPI1, SPI2, UART3		5 pins picoblade 1,25 mm pitch, right-angle SMT - duplicate	0533980571	Molex picoblade 5 pins	
1	SW1		TACTILE-B3U-1000P	Tactile OMRON B3U-1000P		1333652
1	U1		SOT-23-5	LVDS DRVR FIN1001M5X		1467289
1	U2		SOT-23-5	LVDS RECVR FIN1002M5X		1467290
1	U3		LQFP64	STM32F40x-RG_Dirk		2064363
1	U4		MF05A_N	LP2992AIM5-3.3	Micropower 250 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23	1469139
2	UART2, VIN		3 pins picoblade 1,25 mm pitch, right-angle SMT	53398-0371	PICOBLADE, 1,25 mm pitch, header, SMD	
1	USB		USB/ SM0.8-6H5	0481900001	USB On-The-Go (OTG) Mini-B Receptacle, Right Angle, SMT, 0.80mm (.031") Pitch, Solder Tabs with Back Cover, Recessed Type	
1	X1		CFPX-5	3SMXB	Surface Mount Quar	1842056