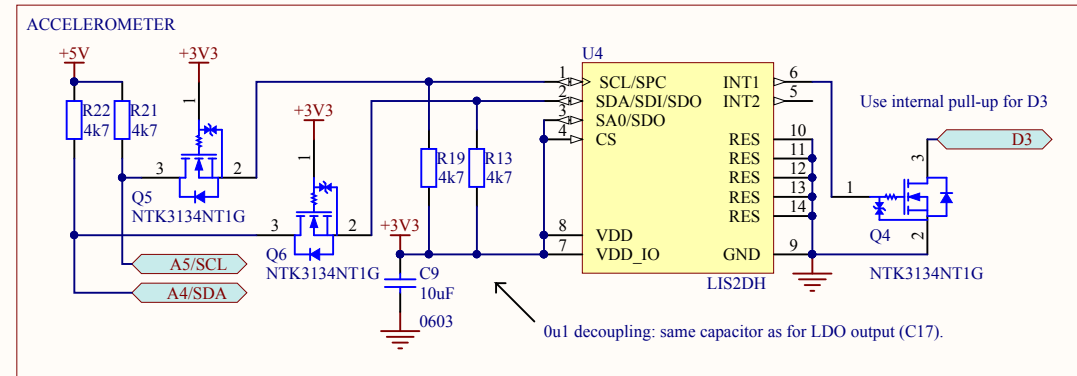
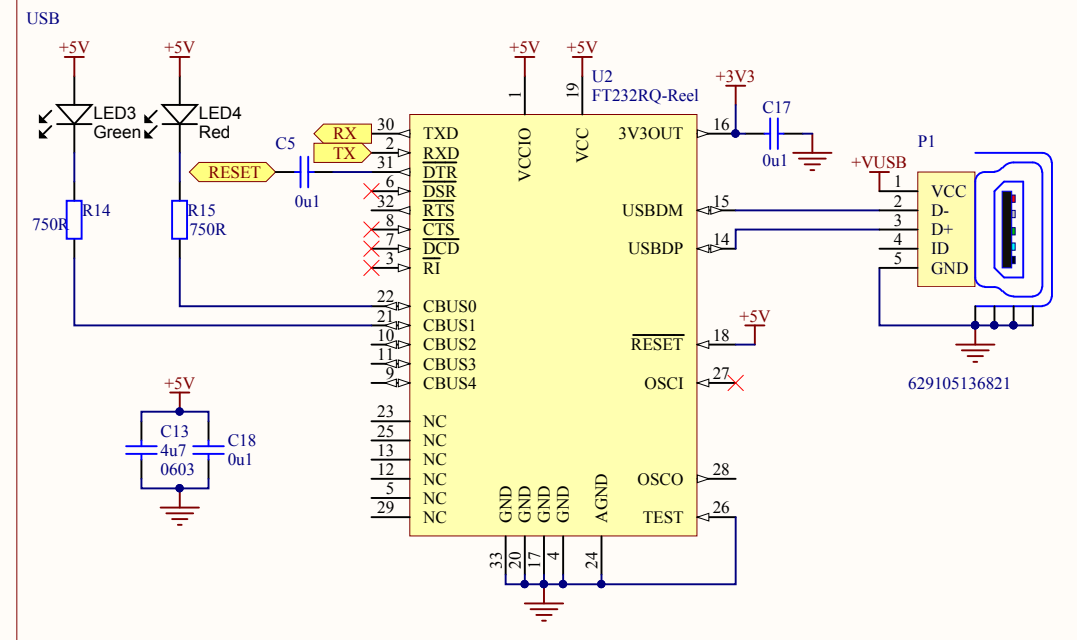
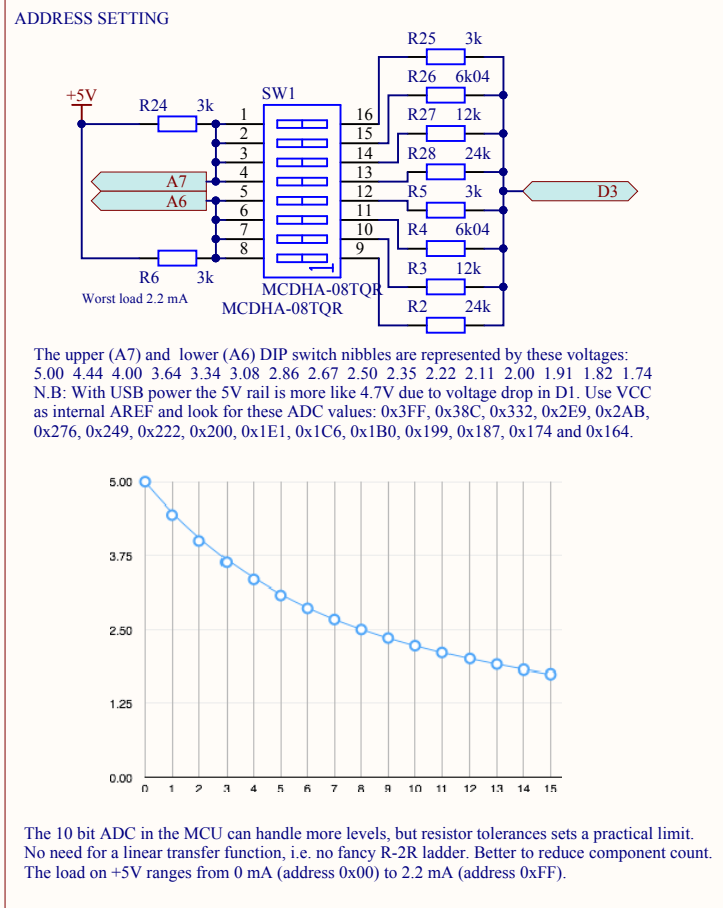
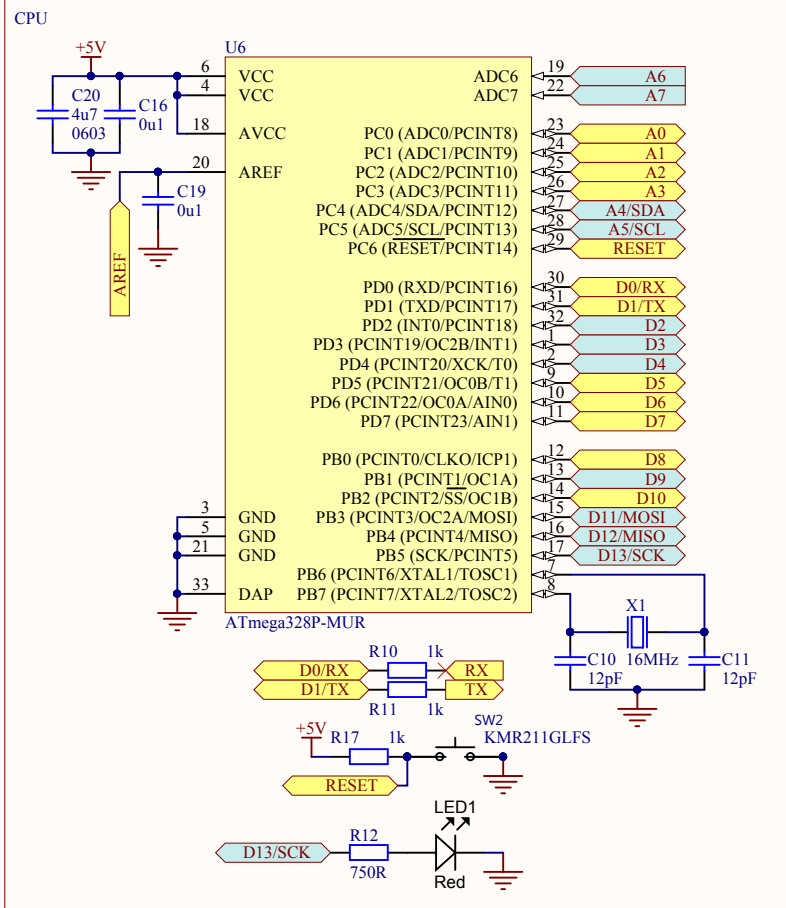
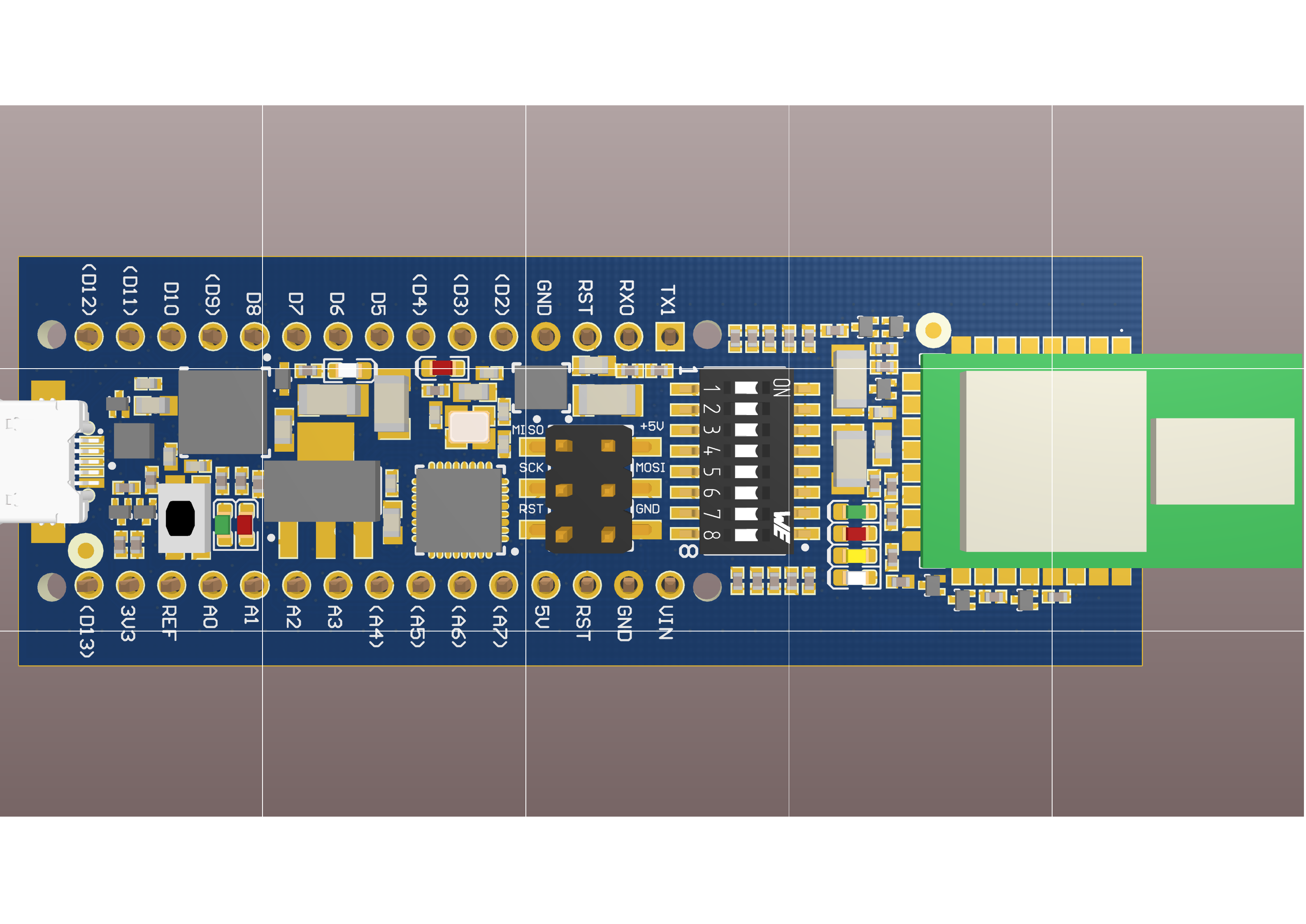
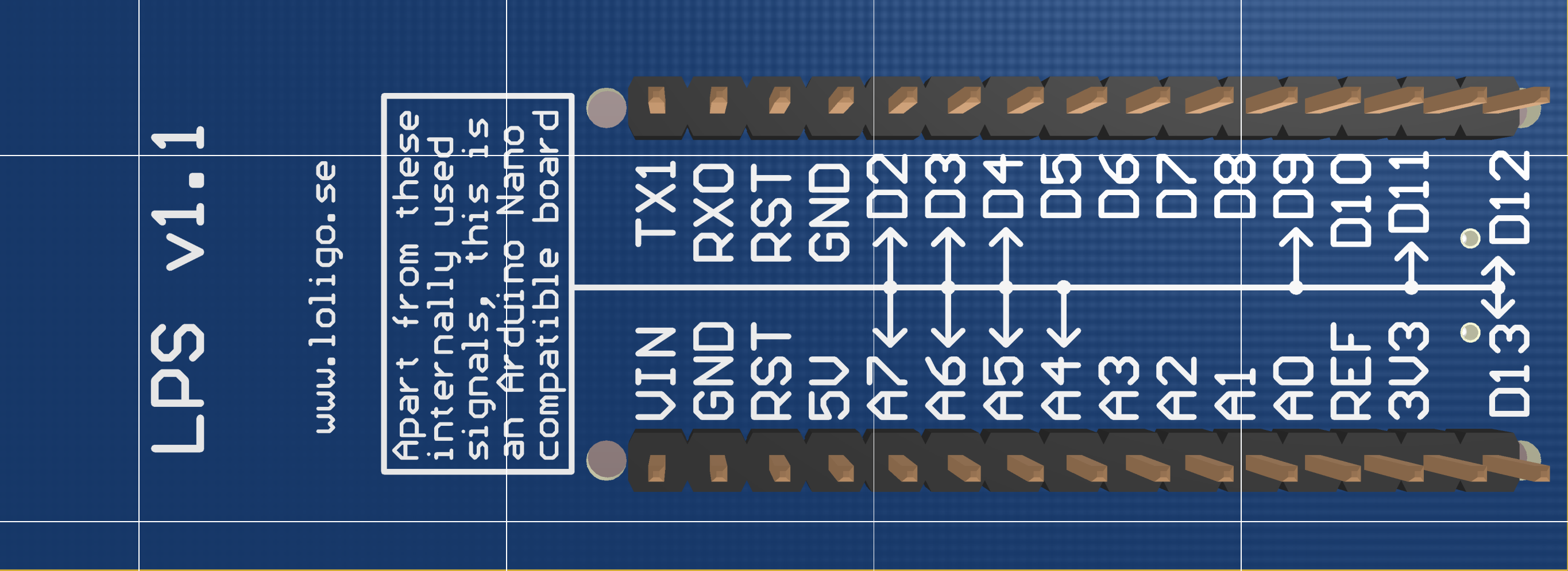
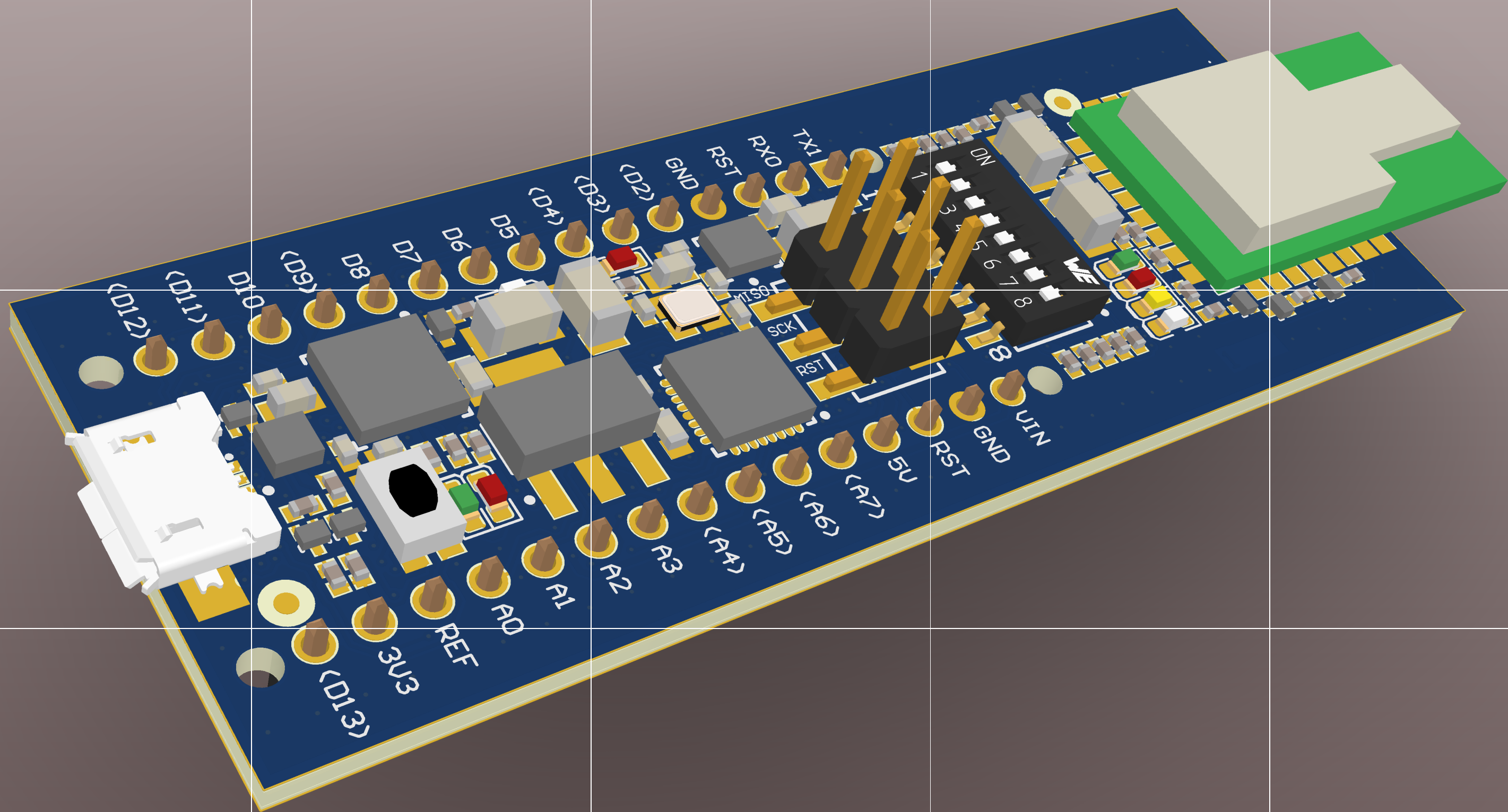
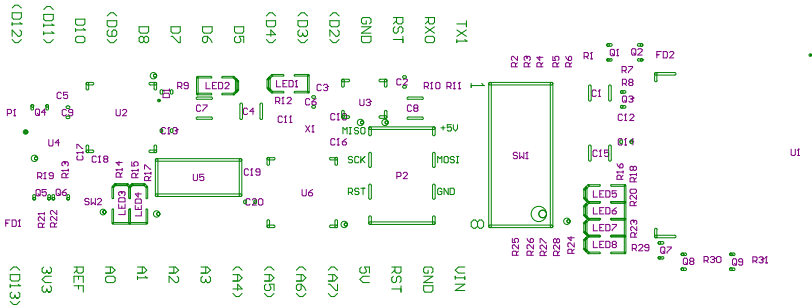








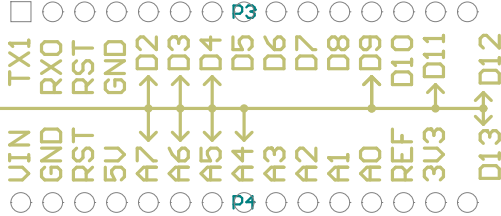




LPS v1.1

www.loligo.se

Apart from these internally used signals, this is an Arduino Nano compatible board



Board Stack Report

Stack Up

Layer Stack

Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3		Top Solder	Solder Resist	0.010mm	3.5
4		Component Side	Copper	0.035mm	
5		Dielectric 1	7628-FZ01	0.180mm	4.8
6		Ground Plane	Copper	0.035mm	
7		Dielectric 3	FR-4	1.080mm	4.5
8		Power Plane	Copper	0.035mm	
9		Dielectric 4	7628-FZ01	0.180mm	4.8
10		Solder Side	Copper	0.035mm	
11		Bottom Solder	Solder Resist	0.010mm	3.5
12		Bottom Overlay			
13		Bottom Paste			
	Height : 1.600mm				

Comment	Description	Designator	Footprint	LibRef	Quantity
CAP 47uF 10V 1206(3216)	CAP 47uF 10V ±20% 1206 (3216 Metric) Thickness 1.9mm SMD	C1, C7, C8, C15	CAPC1206(3216)190_N	CMP-1037-05002-1	4
CAP 2.2uF 10V 0603(1608)	CAP 2.2uF 10V ±10% 0603 (1608 Metric) Thickness 1mm SMD	C2, C6	CAPC0603(1608)100_N	CMP-1035-02758-1	2
CAP 33nF 10V 0402(1005)	CAP 33nF 10V ±10% 0402 (1005 Metric) Thickness 0.6mm SMD	C3	CAPC0402(1005)60_N	CMP-1034-01980-1	1
CAP 470nF 35V 1206(3216)	CAP 470nF 35V ±10% 1206 (3216 Metric) Thickness 1.9mm SMD	C4	CAPC1206(3216)190_N	CMP-1037-04562-1	1
CAP 100nF 10V 0402(1005)	CAP 100nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C5, C12, C16, C17, C18, C19	CAPC0402(1005)60_N	CMP-1034-02064-1	6
CAP 10uF 6.3V 0603(1608)	CAP 10uF 6.3V ±20% 0603 (1608 Metric) Thickness 1mm SMD	C9	CAPC0603(1608)100_N	CMP-1035-02797-1	1
CAP 12pF 10V 0402(1005)	CAP 12pF 10V ±1% 0402 (1005 Metric) Thickness 0.6mm SMD	C10, C11	CAPC0402(1005)60_N	CMP-1034-00749-1	2
CAP 4.7uF 10V 0603(1608)	CAP 4.7uF 10V ±10% 0603 (1608 Metric) Thickness 0.55mm SMD	C13, C14, C20	CAPC0603(1608)55_N	CMP-1035-02784-1	3
NSR0520V2T1G	Schottky Barrier Diode, 2-Pin SOD-523, Pb-Free, Tape and Reel	D1	ONSC-SOD-523-2-502-01_V	CMP-1055-00480-1	1
Red	LED 0603 SMD Hyper Red 630nm 220mcd 20mA	LED1, LED4, LED6	LED-0603-RED	LED_SMD_Red_0603_220mcd	3
White	LED 0603 SMD Bright White 8700K	LED2, LED8	LED-0603-WHITE	LED_SMD_White_0603_Bright	2
Green	LED 0603 SMD Green 570nm 50mcd 20mA	LED3, LED5	LED-0603-GREEN	LED_SMD_Green_0603_570nm	2
Yellow	LED 0603 SMD Yellow 590nm 150mcd 20mA	LED7	LED-0603-YELLOW	LED_SMD_Yellow_0603_150mcd	1
629105136821	WR-COM Micro USB SMT Type B	P1	629105136821	WE-Communication Connectors 629105136821	1
610x0621121	WR-PHD 2.54 mm Dual SMT Pin Header	P2	610x0621121	WE-2.54 mm Pin Header & Jumper 610x0621121	1
61301511121	WR-PHD 2.54mm Pin Header	P3, P4	61301511121	WE-2.54 mm Pin Header & Jumper 61301511121	2
NTK3134NT1G	Power MOSFET, 20 V, 890 mA, Single N-Channel with ESD Protection, 3-Pin SOT-723, Pb-Free, Tape and Reel	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	ONSC-SOT-723-3-631AA-01_V	CMP-1058-00838-1	9
4K7 1% 0402(1005)	4K7 0.063W 1% 0402 (1005 Metric) SMD	R1, R7, R8, R13, R19, R21, R22, R30, R31	RESC0402(1005)_N	CMP-1011-00586-1	9
24K 1% 0402(1005)	24K 0.063W 1% 0402 (1005 Metric) SMD	R2, R28	RESC0402(1005)_N	CMP-1011-00664-1	2
12K 1% 0402(1005)	12K 0.063W 1% 0402 (1005 Metric) SMD	R3, R27	RESC0402(1005)_N	CMP-1011-00631-1	2
6K04 1% 0402(1005)	6K04 0.063W 1% 0402 (1005 Metric) SMD	R4, R26	RESC0402(1005)_N	CMP-1011-00598-1	2
3K 1% 0402(1005)	3K 0.063W 1% 0402 (1005 Metric) SMD	R5, R6, R9, R24, R25	RESC0402(1005)_N	CMP-1011-00562-1	5
1K 1% 0402(1005)	1K 0.063W 1% 0402 (1005 Metric) SMD	R10, R11, R17, R23	RESC0402(1005)_N	CMP-1011-00510-1	4
750R 1% 0402(1005)	750R 0.063W 1% 0402 (1005 Metric) SMD	R12, R14, R15	RESC0402(1005)_N	CMP-1011-00496-1	3
330R 1% 0402(1005)	330R 0.063W 1% 0402 (1005 Metric) SMD	R16, R18, R20	RESC0402(1005)_N	CMP-1011-00454-1	3
10K 1% 0402(1005)	10K 0.063W 1% 0402 (1005 Metric) SMD	R29	RESC0402(1005)_N	CMP-1011-00623-1	1
MCDHA-08TQR	DIP Switch, 8 Position, SPST	SW1	SOIC127P800X210-16N SW8	SW DIP-8	1
KMR211GLFS		SW2	KMR2	KMR2	1
DWM1000	UWB Transciever	U1	DWM1000	DWM1000	1
FT232RQ-Reel	USB UART Asynchronous Serial Data Transfer Chip, 32-pin QFN, Tape and Reel	U2	PQFN5X5-32_V	COM-UART-FT232R-SQ32	1
LP3982ILD-3.3/NOPB	Micropower, Ultra Low-Dropout, Low-Noise, 300mA CMOS Regulator, 8-pin LLP, Pb-Free	U3	LDA08C	CMP-0062-01284-2	1
LS2DH	MEMS Digital Output Motion Sensor Ultra Low-Power High Performance 3-Axes "femto" Accelerometer, 1.71 to 3.6 V, -40 to 85 degC, 14-pin (LGA-14), Pb-Free, Tray	U4	LGA-14_N	CMP-0234-00082-3	1
LM2940IMP-5.0/NOPB	1A Low Dropout Regulator, 4-pin SOT-223, Pb-Free	U5	MP04A_N	CMP-0062-01724-2	1
ATmega328P-MUR	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin MLF, Industrial Grade (-40°C to 85°C), Reel	U6	32M1-A_N	CMP-0095-00090-2	1
16MHz	XTAL SMD 2520, 16MHz	X1	BT-XTAL_2520	XTAL_TSX-2520	1