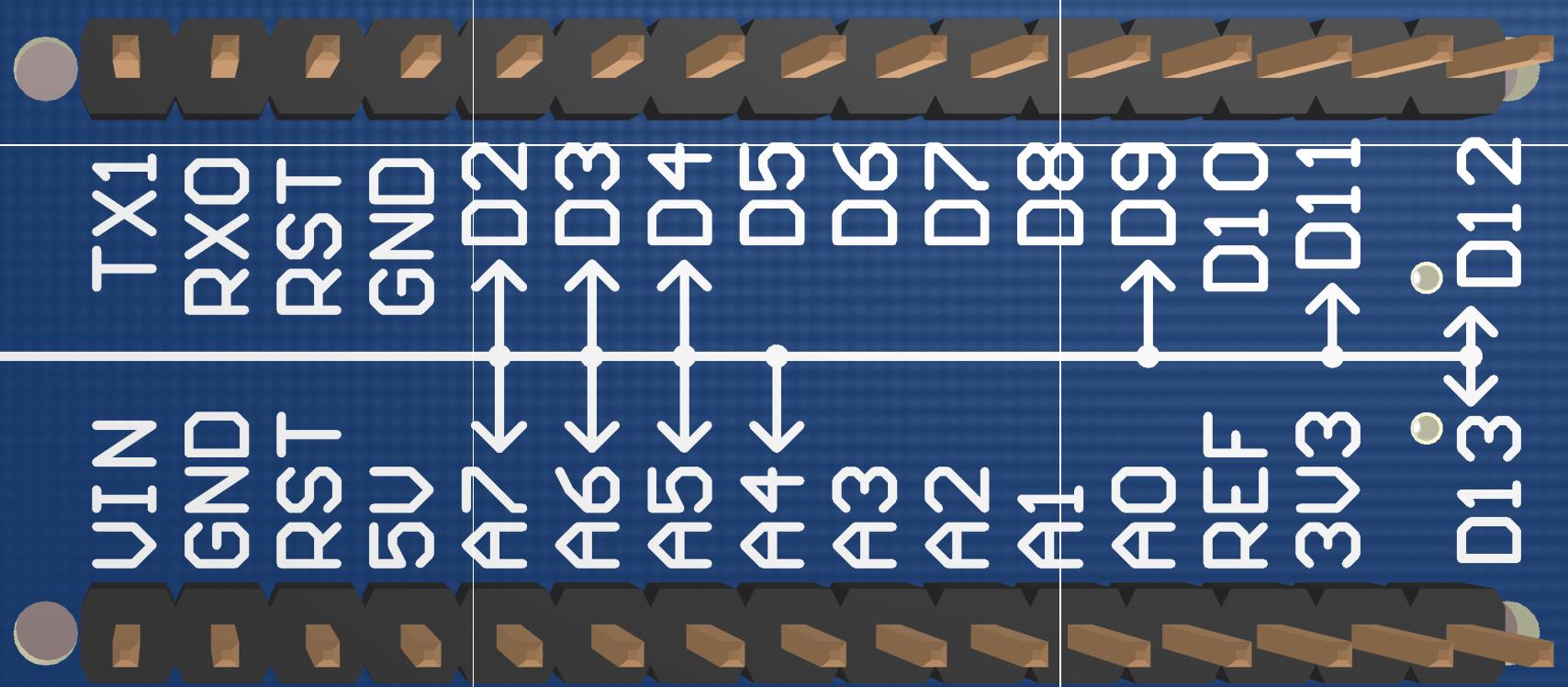
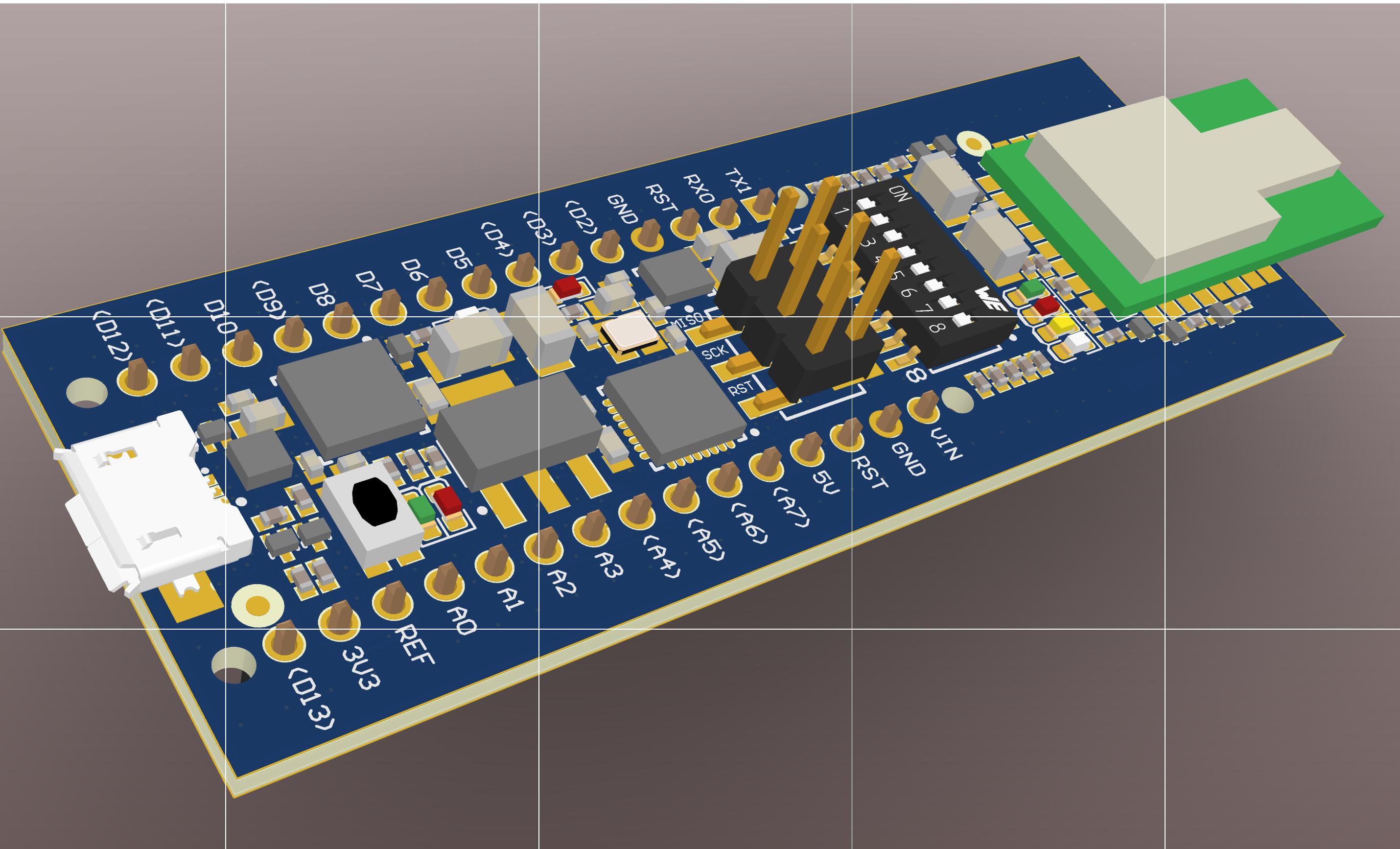


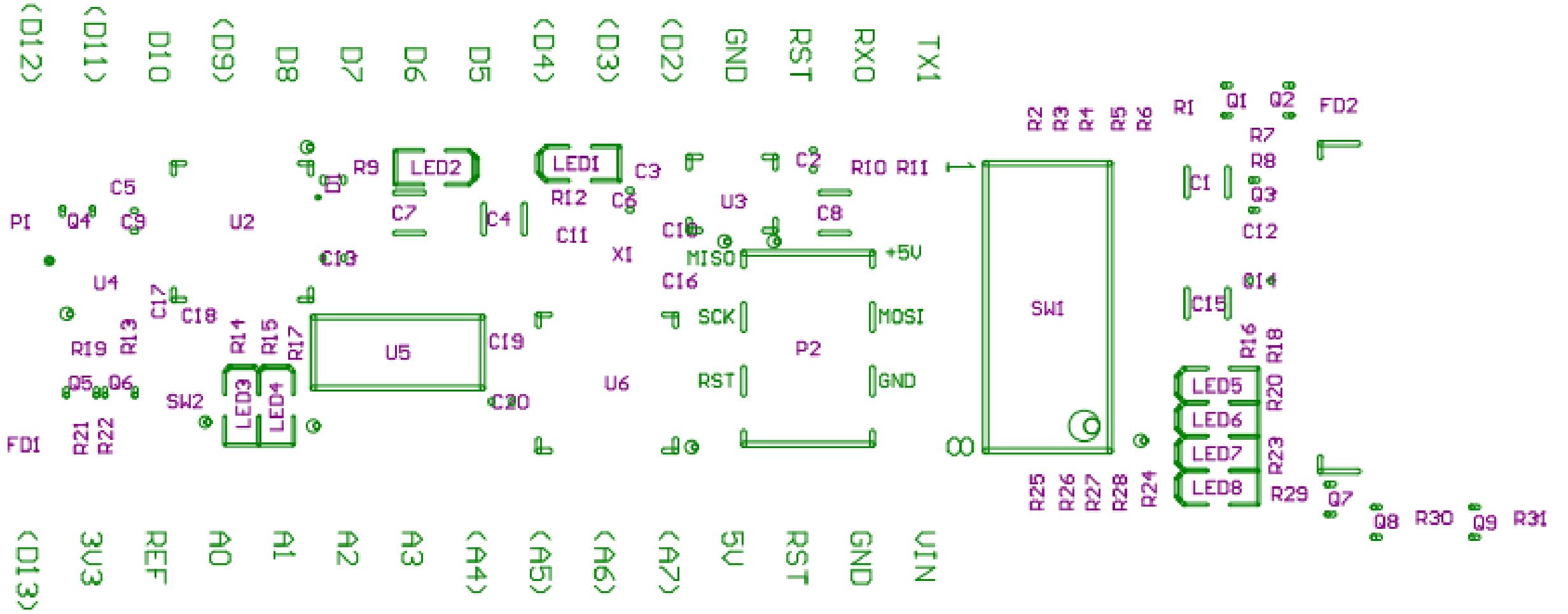
# LDS v1.1

[www.loligo.se](http://www.loligo.se)

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



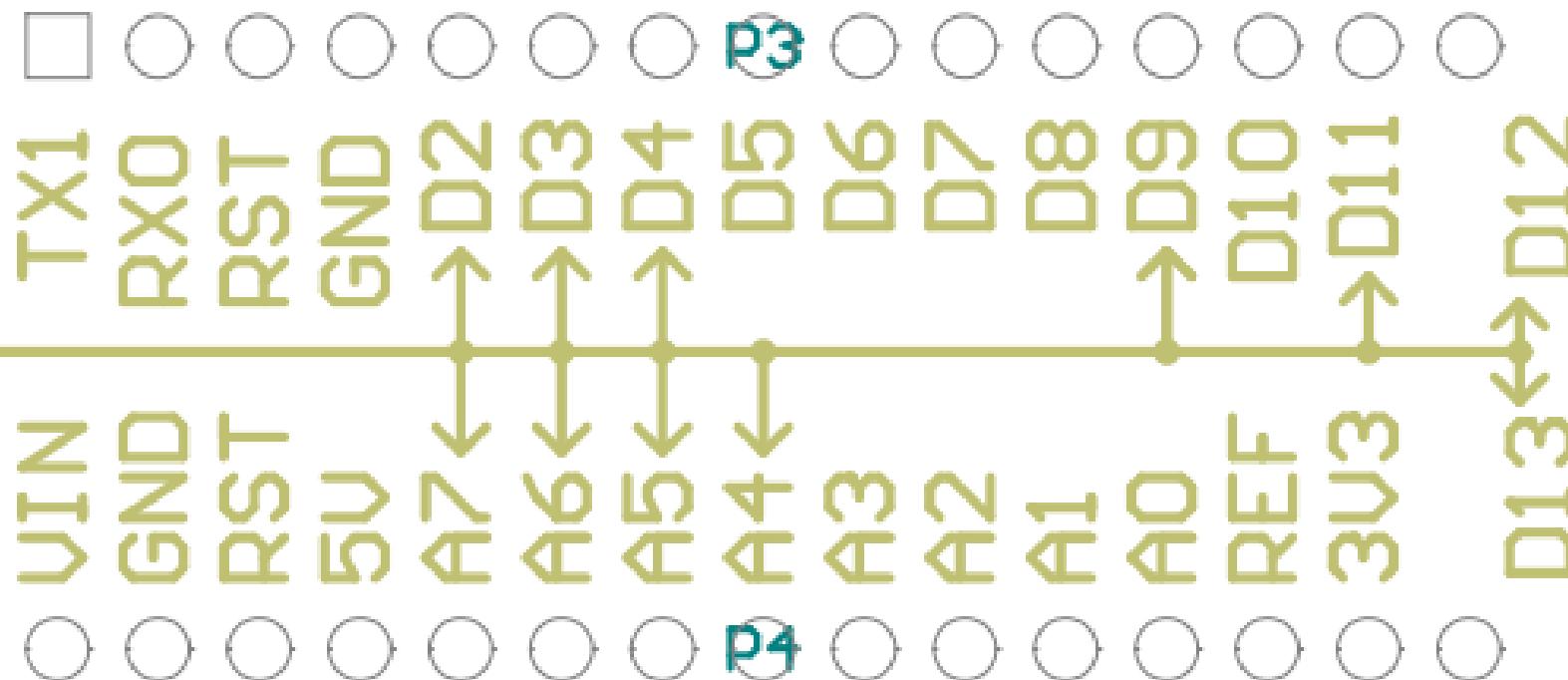




# LPS v1.1

[www.loligo.se](http://www.loligo.se)

Apart from these internally used signals, this is an Arduino 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
Schottky Barrier Diode, 2-Pin SOD-523, Pb-Free, Tape and Reel	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
LED 0603 SMD Hyper Red 630nm 220mcd 20mA	LED 0603 SMD Hyper Red 630nm 220mcd 20mA	LED1, LED4, LED6	LED-0603-RED	LED_SMD_Red_0603_220mcd	3
LED 0603 SMD Bright White 8700K	LED 0603 SMD Bright White 8700K	LED2, LED8	LED-0603-WHITE	LED_SMD_Bright_0603_8700K	2
LED 0603 SMD Green 570nm 50mcd 20mA	LED 0603 SMD Green 570nm 50mcd 20mA	LED3, LED5	LED-0603-GREEN	LED_SMD_Green_0603_570nm	2
LED 0603 SMD Yellow 590nm 150mcd 20mA	LED 0603 SMD Yellow 590nm 150mcd 20mA	LED7	LED-0603-YELLOW	LED_SMD_Yellow_0603_150mcd	1
WR-COM Micro USB SMT Type B	WR-COM Micro USB SMT Type B	P1	629105136821	WE-Communication Connectors 629105136821	1
WR-PHD 2.54 mm Dual SMT Pin Header	WR-PHD 2.54 mm Dual SMT Pin Header	P2	610x0621121	WE-2.54 mm Pin Header & Jumper 610x0621121	1
WR-PHD 2.54mm Pin Header	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 0.063W 1% 0402 (1005 Metric) SMD	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 0.063W 1% 0402 (1005 Metric) SMD	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
LIS2DH	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