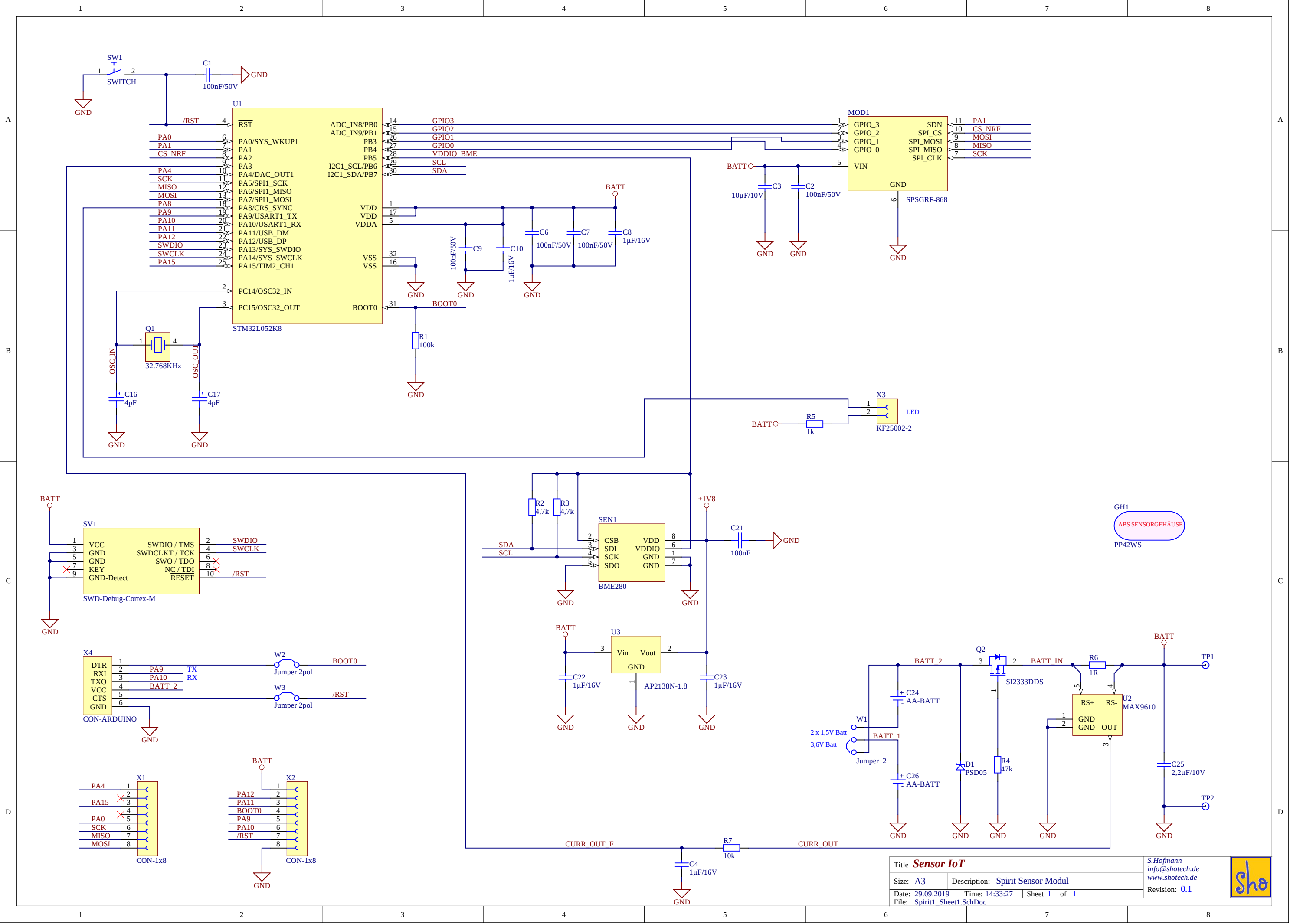
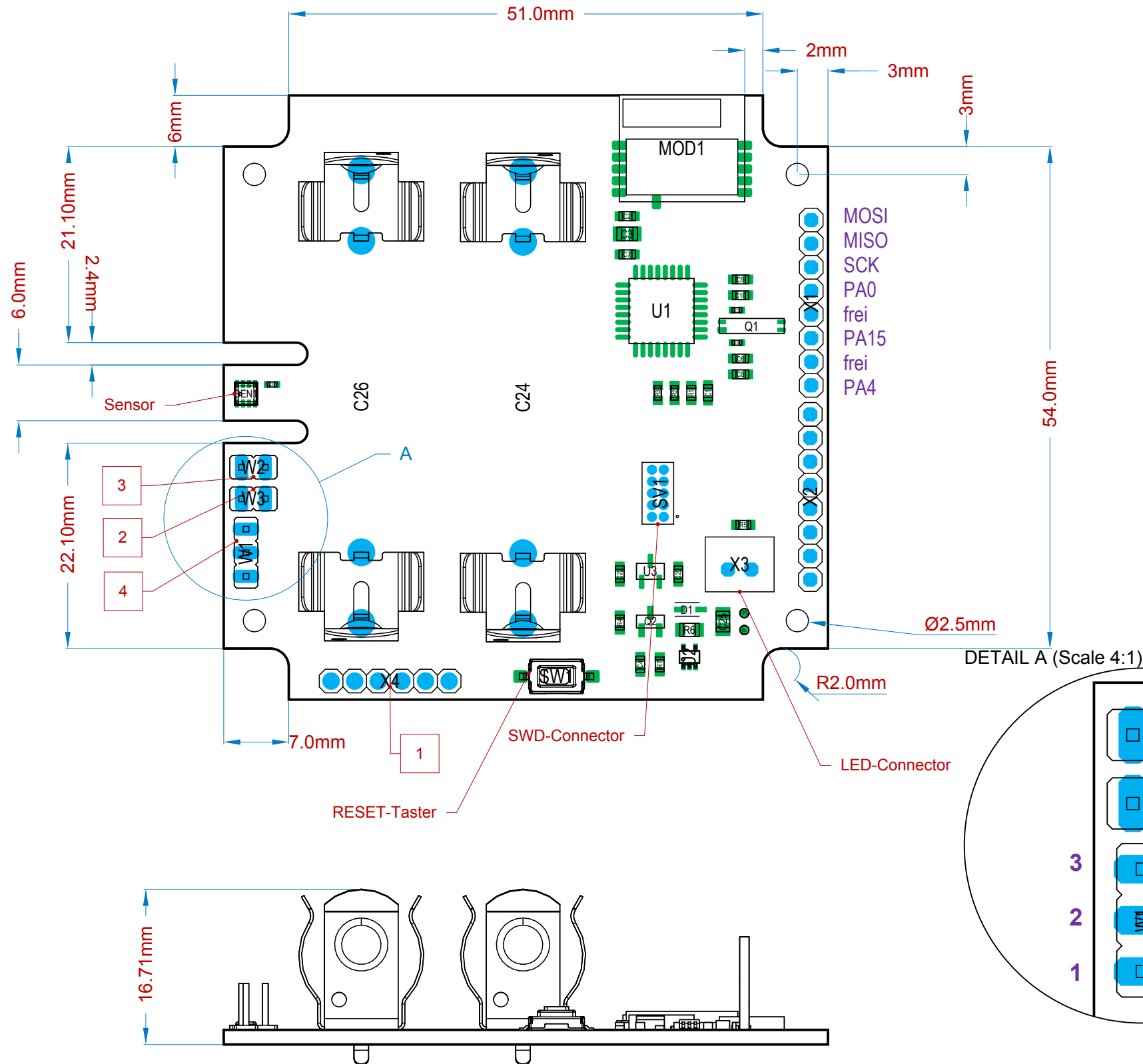
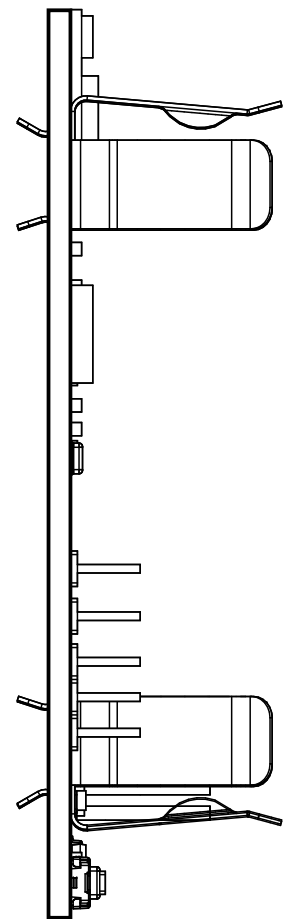


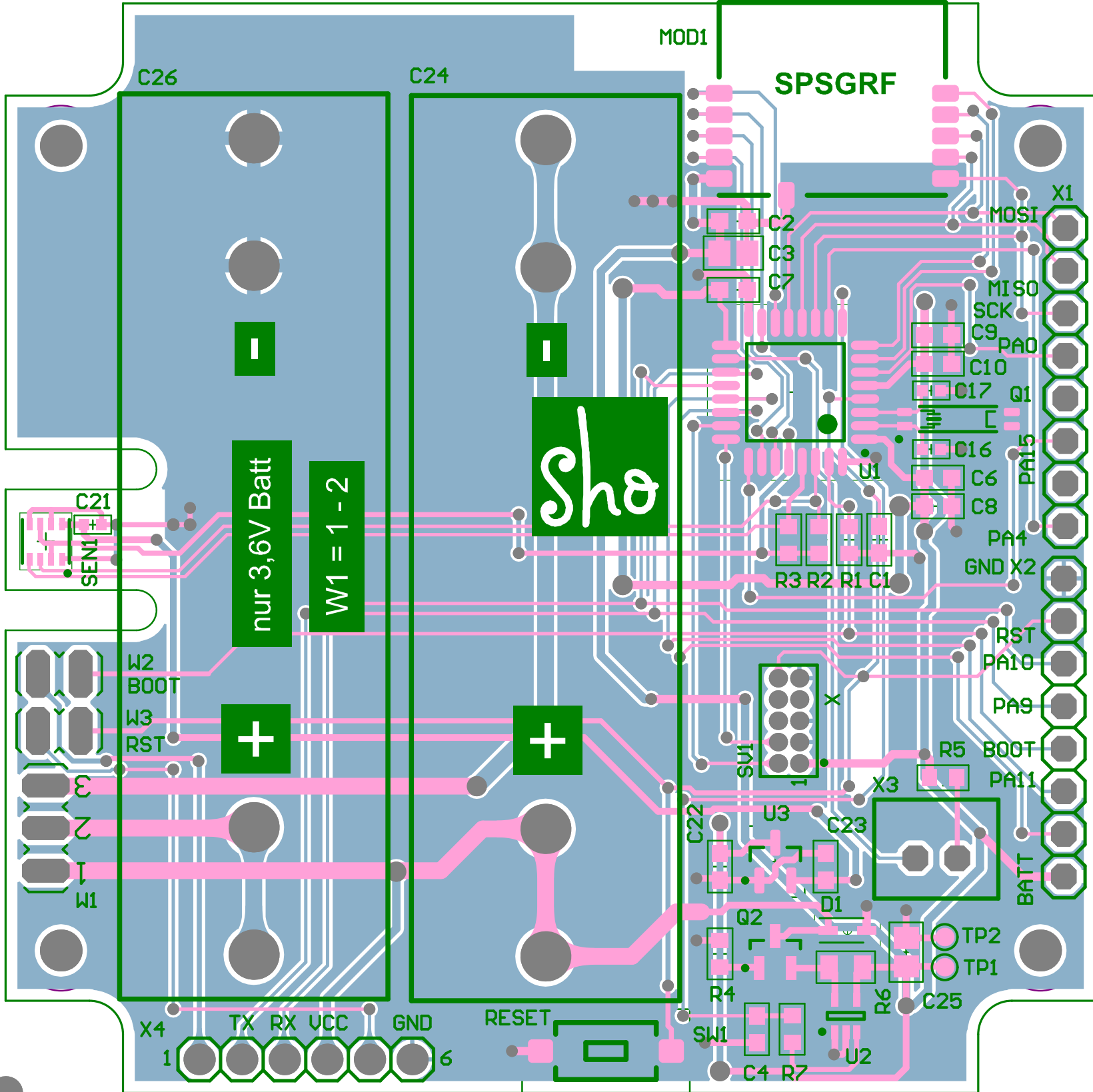




Note:

- 1 Arduino Prog Adapter
- 2 Jumper Arduino Option RST
- 3 Jumper Arduino Option BOOT
- 4 Jumper Batterie

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES:		FINISH:			DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION		
							(c) by shotech Steffen Hofmann info@shotech.de www.shotech.de				
	NAME	SIGNATURE	DATA				TITLE: 				





Bearbeiter: S. Hofmann
Tel: 040 /
Fax: 040 / 76906856
Email: shop@shotech.de

Bill of Materials

Datum:	29. September 2019
Zeit:	14:33:36
Variant:	None
Bezeichnung:	Sensor IoT
Revision:	0.1

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-Code	shotech
5	C1, C2, C6, C7, C9	C0603_N	SMD-Vs-Kond 100nF 50V 10% X7R 0603	100nF/50V	Samsung	CL10B104KB8NNNC	000230
1	C3	C0805_N	CAPACITOR, 0805, X5R, 10V, 10UF	10µF/10V	Murata	GRM21BR61A106KE19L	000134
5	C4, C8, C10, C22, C23	C0603_N	KONDENSATOR, 1UF, 16V, X7R, 0603	1µF/16V	TAIYO YUDEN	EMK107B7105KA-T	000119
2	C16, C17	C0402_N	4pF, COG, +,- 0,25pF, 0402	4pF	Murata	GRM1552C1H4R0CA01	000776
1	C21	C0402_N	100nF, 0402, X7R, 16V	100nF	KEMET	C0402C104K4RACAUTO	0001436
2	C24, C26	BCL92PC	Batterie-Halter AA	AA-BATT	Keystone	92, BATTERY CLIP	000129
1	C25	C0805_N	CAPACITOR, 0805, X7R, 10V, 2.2UF	2.2µF/10V	Murata	GRM21BR71A225KA01L	000243
1	D1	SOD2513X110N	SMD-TVS-Diode unidi, 500W 5V SOD323	PSD05	Protek-Devices	PSD05-LF-T7	001263
1	GH1		PP42WS ABS SENSORGEHÄUSE WEISS	PP42WS		PP42WS	000585
1	MOD1	SPSGRF	low power programmable RF transceiver modules	SPSGRF-868	ST-Mikroelektronik	SPSGRF-868	000356
1	Q1	SSP-T7	Quarz 32.768KHz 4,4pF 20ppm	XTAL 32.768KHZ	Seiko Instruments	SSP-T7-FL#20ppm,4,4PF	001429
1	Q2	SOT95P230X110-3N	MOSFET,P KANAL,12V,6.0A,SOT23, 28mR	SI2333DDS	VISHAY SILICONIX	SI2333DDS-T1-GE3	
1	R1	R0603_N	WIDERSTAND, 0603, 100KR, 1%	100k	VISHAY DRALORIC	CRCW0603100KFKEA	
2	R2, R3	R0603	WIDERSTAND, 0603, 4.7KR, 1% 100ppm	4,7k	VISHAY DRALORIC	CRCW06034K70FKEA	
1	R4	R0603_N	RESISTOR, 0603, 47K0, 1%	47k	VISHAY DRALORIC	CRCW060347K0FKEA	
1	R5	R0603_N	RESISTOR, 0603, 1K0, 1%	1k	VISHAY DRALORIC	CRCW06031K00FKEA	
1	R6	R0805_N	RES SMD 1 OHM 1% 1/8W 0805	1R	Panasonic	ERJ-6RQF1R0V	000782
1	R7	R0603_N	RESISTOR, 0603, 10K0, 1%	10k	VISHAY DRALORIC	CRCW060310K0FKEA	
1	SEN1	LGA65P250X250X100-8N	DIGITAL HUMIDITY, PRESSURE AND TEMPERATURE SENSOR	BME280	Bosch SE	0273.141.185	000664
1	SV1	Cortex-SWD-Debug	CONN HDR 1.27MM VERT AU 10POS	SWD-Debug-Cortex-M	HARWIN	M50-3500542	
1	SW1	TMG-325	SMD-Taster 1NO 12V 50mA 4,3mm 130gf	Tact Switch	China	Product ID: 1813303037	
2	TP1, TP2	TESTPOINT TYP1					
1	U1	TQFP80P900X900X160-32N	Cortex-M0+, up to 64KB, Flash, 8KB SRAM, 2KB EEPROM, USB	STM32L052K8	ST-Microelectronic	STM32L052K8T6D	000017
1	U2	SOT65P210X110-5N	Precision Current-Sense Amplifier	MAX9610	Maxim Integrated	MAX9610TEKX+T	000272
1	U3	SOT95P280X150-3N	LDO 1,8V	AP2138N-1.8	Diodes	AP2138N-1.8TRG1	000346
1	W1	JP2					
2	W2, W3	JP1	Jumper RM2,54, rot	JUMP-RT		JUMP-RT	
1	X3	KF25002-2	Buchse 2polig, 2,5mm Raster	KF25002-2		KF25002-2Y	
1	X4	1X6					