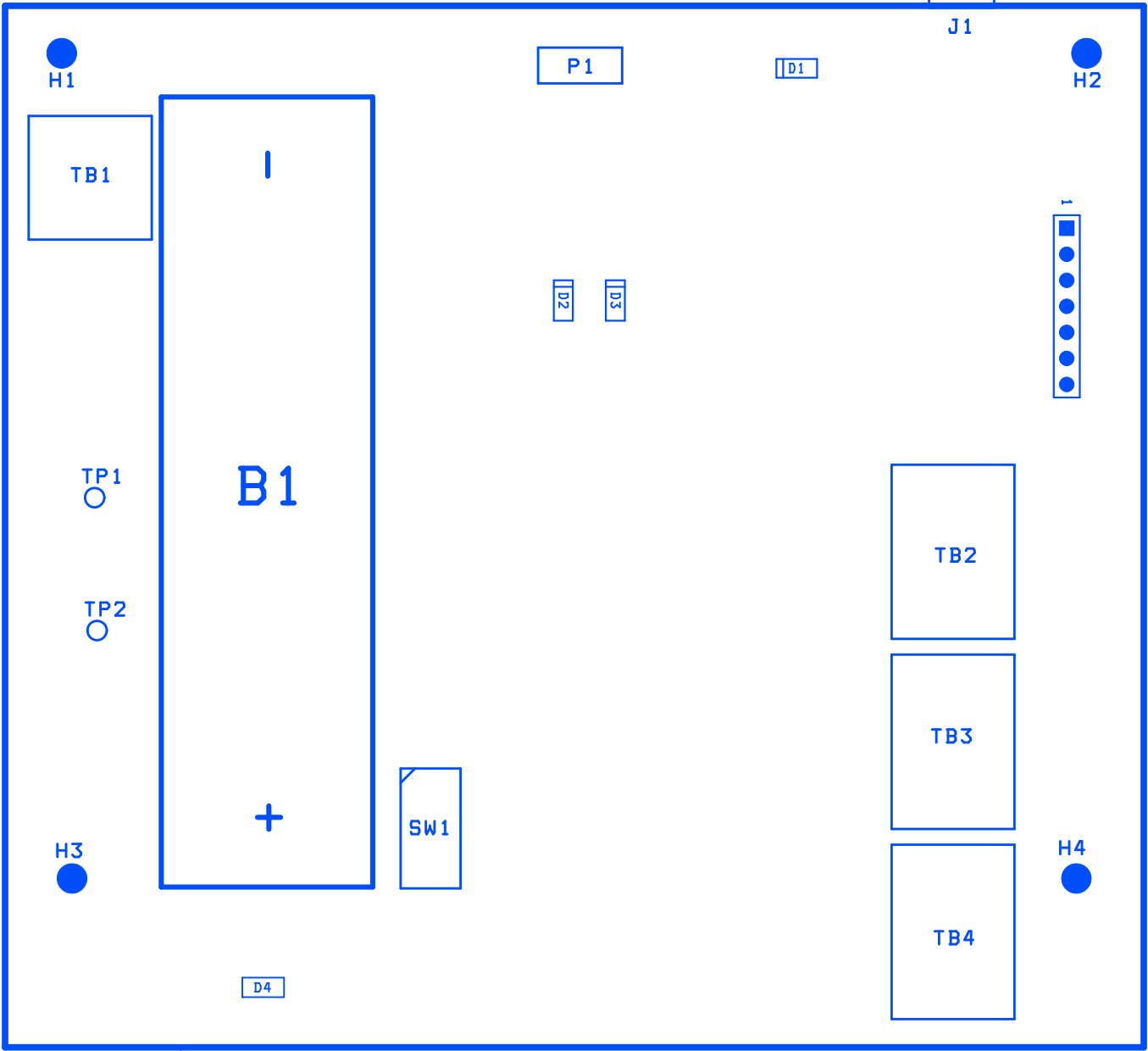


Title			
SDI12 to LoRa Radio Node			
Size B	Document Number T012-032	Rev E	
Date:	Thursday, March 21, 2019	Sheet 1 of 1	

Item	Qty	Part	Value	Reference
1	1	1043	Battery-18650_1043P	B1
2	13	C0805X5R106V25	10uf 25v	C1,C8,C9,C12,C19,C28,C29, C30,C33,C34,C35,C36,C37
3	3	C0603NPO103V50	.01uf NPO	C2,C10,C20
4	8	C0603X5R105V16	1uf	C3,C7,C11,C15,C17,C21, C23,C24
5	3	C0603NPO470V50	47pf	C4,C5,C25
6	6	C0603X7R104V50	.1uf	C6,C13,C16,C26,C27,C32
7	2	C0603NPO180V50	18pf	C18,C14
8	1	C0805X5R105V35	1uf 35v	C22
9	1	C0603NP0102V50	1000pF	C31
10	4	LTST-C171GKT	LED	D1,D2,D3,D4
11	1	PMEG4005EG	PMEG4005EG	D5
12	3	MBR0580S1-7	MBR0580S1-7	D6,D7,D9
13	1	BZT52C5V1-SOD123	5v zener	D8
14	1	PMEG2010AEH	PMEG2010AEH	D10
16	4	9911-062	spacer	H1,H2,H3,H4
17	1	CON-SMA-EDGE-S	CON-SMA-EDGE-S	J1
18	1	DNL	CON7	J2
19	1	NR6045T100M	10uH 3A	L1
20	1	NR6045T3R0M	3.0uH 3A	L2
21	1	105133-001	USB/MicroB	P1
22	3	SSM3K376R	SSM3K376R	Q1,Q4,Q6
23	1	BC817-40W	BC817	Q2
24	1	DMG2305UX	DMG2305UX	Q3
25	1	RQ5E035ATTCL	RQ5E035ATTCL	Q5
26	4	R0603-3300	330	R1,R10,R12,R32
27	4	R0603-4702	47k	R2,R5,R16,R30
28	2	R0603-27R0	27	R4,R3
29	5	R0603-3901	3.9k	R6,R7,R8,R11,R13
30	7	R0603-1002	10k	R9,R17,R20,R21,R23,R24,R27
31	1	R0603-3601	3.6k	R14
32	2	R0603-5100	510	R15,R19
33	1	R0603-2201	2.2k	R18
34	1	R0805-1R00	1 ohm	R22
35	1	R0603-3002	30k	R25
36	1	NCP18XH103D03RB	10k NTC	R26
37	1	R0603-2502	25k	R28
38	1	R0603-1802	18k	R29
39	1	R0603-9102	91k	R31
40	1	SS12F56V4	ON/OFF	SW1
41	1	OSTOQ025450	Ext Power	TB1
42	3	OSTOQ33250	SDI12-1, 2, 3	TB2,TN3,TB4
45	2		6v PV Panel (-, +)	TP1, TP2
47	1	RFM95W	RFM95W	U1
48	1	FT231XS-R	FT231XS-R	U2
49	1	DS3231SN	DS3231	U3
50	1	MX25R6435FM2IL0	MX25R6435FM2IL0	U4
51	1	MCP1700T3302EETT	MCP1700T3302ETT	U5
52	1	ATMEGA1284P	ATMEGA1284P	U6
53	1	BDG9G101G	BD9G101G	U7
54	1	SN74LVC1T45DBVR	SN74LVC1T45	U8
55	1	RT9069-50GB	RT9069-50GB	U9
56	1	BQ24092DGQ	BQ24092 - Li Charger	U10
57	1	TPS61085DGK	TPS61085DGK	U11
58	1	TPS22810DBVR	TPS22810	U12
59	1	ABM3-16.000MHZ-B2-T	16 MHz	Y1

T012-032 Rev E
SDI-12/LoRa Node
Assembly Drawing - TOP



T012-032 Rev E

SDI-12/LoRa Node

Assembly Drawing - BOTTOM

