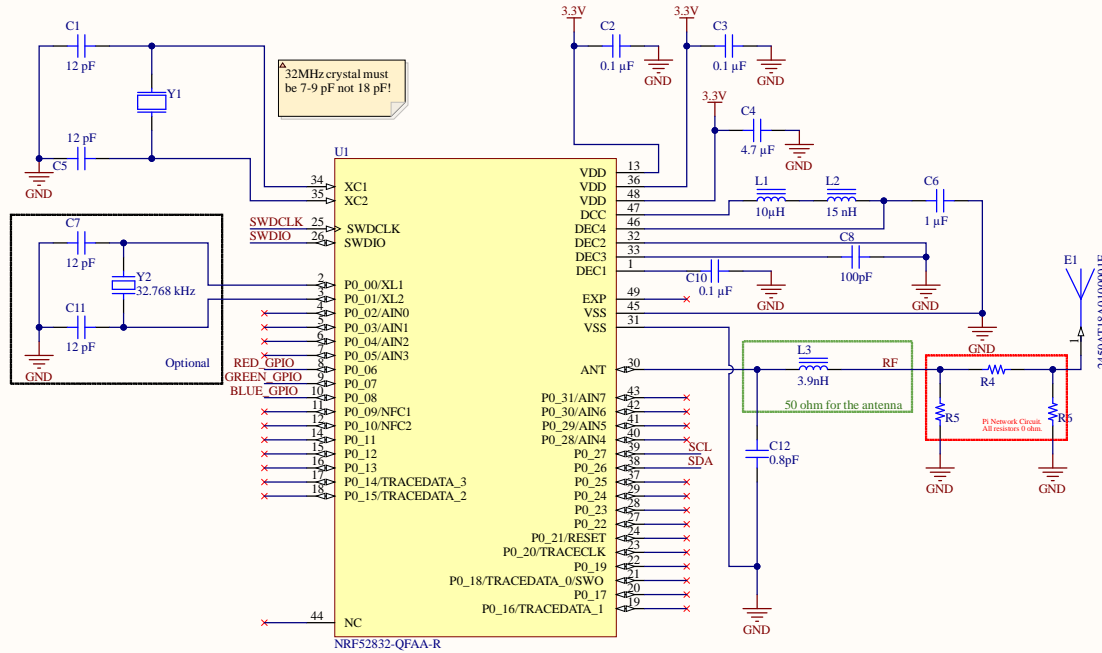
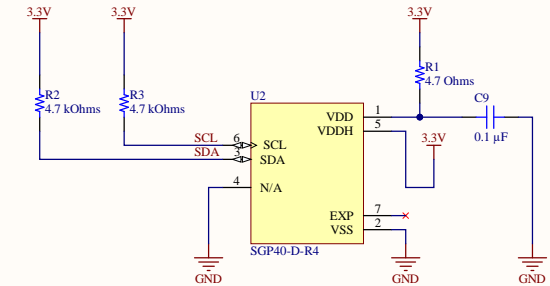


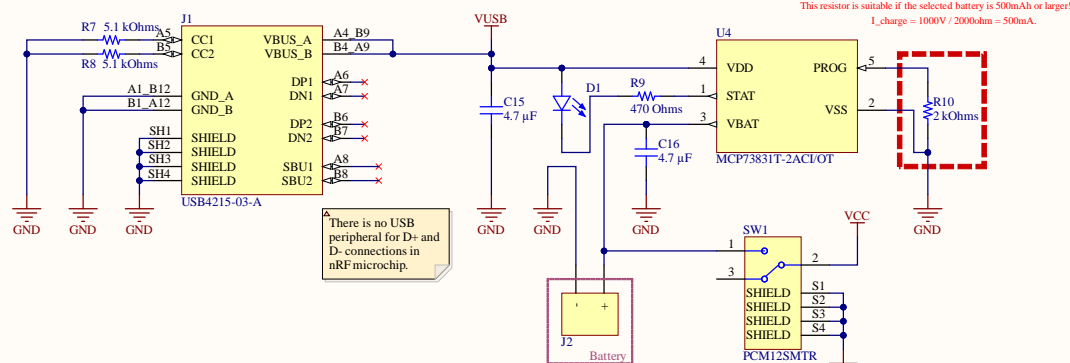
MCU/nRF



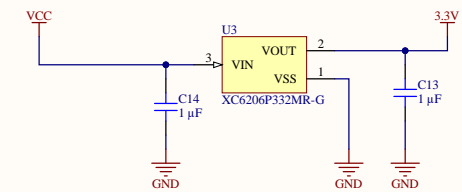
Alcohol Sensor



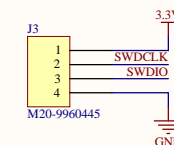
Battery - Switch - Charging



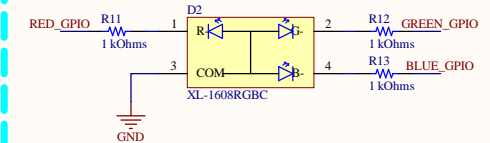
LDO



SWD



Status LEDs



Title		
Size	Number	Revision
A3		
Date:	2.14.2026	Sheet of
File:	C:\Users\...Sheet1.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
12 pF	CAP CER 12PF 50V COG/NPO 0402, CAP CER 12PF 25V NPO 0402	C1, C5, C7, C11	CAP 0402_1005	CBR04C120F5GAC, C0402C120J3GAC7867	4
0.1 µF	CAP CER 100NF 10V X7R 0402	C2, C3, C9, C10	CAP 0402_1005	CL05B104KP5VPNC	4
4.7 µF	CAP CER 4.7UF 16V X5R 0402	C4, C15, C16	CAP 0402_1005	CL05A475MO5NUNC	3
1 µF	CAP CER 1UF 10V X5R 0402	C6, C13, C14	CAP 0402_1005	885012105012	3
100pF	CAP CER 100PF 10V X7R 0402	C8	CAP 0402_1005	0402ZC101MAT2A	1
0.8pF	CAP CER 0.8PF 50V NPO 0402	C12	CAP 0402_1005	04025A0R8BAT2A	1
XZFB853W-1	1.6X0.8MM BLUE SMD 0603 LED	D1	XZFB853W-1	XZFB853W-1	1
XL-1608RGB	Red, Green, Blue (RGB) 625nm Red, 525nm Green, 470nm Blue LED Indication - Discrete 2.1V Red, 3.1V Green, 3.1V Blue 0603 (1608 Metric)	D2	XL-1608RGB	XL-1608RGB	1
2450AT18A0100001E	2.4GHz Chip RF Antenna 2.4GHz ~ 2.5GHz 0.5dBi Solder Surface Mount	E1	2450AT18A0100001E	2450AT18A0100001E	1
USB4215-03-A	USB-C (USB TYPE-C) USB 2.0 Receptacle Connector 24 (16+8 Dummy) Position Surface Mount, Right Angle: Through Hole	J1	USB4215-03-A	USB4215-03-A	1
Male Header 2 Pin		J2	Male Header 2 Pin	Male Header 2 Pin	1
M20-9960445	CONN HEADER R/A 4POS 2.54MM	J3	HARWIN M20- 9960445	M20-9960445	1
10µH	FIXED IND 10UH 850MA 300 MOHM	L1	IND 1008_2520	74479887310A	1
15 nH	FIXED IND 15NH 300MA 700MOHM SMD	L2	IND 0201_0603	LQP03HQ15NJ02D	1
3.9nH	RF INDUCTOR ML	L3	IND 0402_1005	BSCH001005053N9SC P	1
4.7 Ohms	RES SMD 4.7 OHM 5% 1/16W 0402	R1	RES 0402_1005	CRCW04024R70JNED	1
4.7 kOhms	RES SMD 4.7K OHM 0.5% 1/16W 0402	R2, R3	RES 0402_1005	RR0510P-472-D	2
=Value	RES SMD 0 OHM JUMPER 1/10W 0402	R4, R5, R6	RES 0402_1005	MCS04020Z0000ZE000	3
5.1 kOhms	RES SMD 5.1K OHM 0.1% 1/16W 0402	R7, R8	RES 0402_1005	ERA-2AEB512X	2
470 Ohms	RES 470 OHM 0.1% 1/16W 0402	R9	RES 0402_1005	TNPW0402470RBVEP	1
2 kOhms	RES SMD 2K OHM 0.1% 1/16W 0402	R10	RES 0402_1005	CPF0402B2K0E1	1
1 kOhms	RES SMD 1K OHM 0.1% 1/16W 0402	R11, R12, R13	RES 0402_1005	CPF0402B1K0E	3
PCM12SMTR	Slide Switch SPDT Surface Mount, Right Angle	SW1	PCM12SMTR	PCM12SMTR	1
NRF52832-QFAA-R	IC RF TxRx + MCU Bluetooth, General ISM > 1GHz ANT, Bluetooth v5.0 2.4GHz 48-VFQFN Exposed Pad	U1	NRF52832-QFAA-R	NRF52832-QFAA-R	1
SGP40-D-R4	MOx based gas sensor for indoor air quality applications	U2	SGP40-D-R4	SGP40-D-R4	1
XC6206P332MR-G	Linear Voltage Regulator IC Positive Fixed 1 Output 200mA SOT-23	U3	SOT-23	XC6206P332MR-G	1
MCP73831T-2ACI/OT	Charger IC Lithium Ion/Polymer SOT-23- 5	U4	MCP73831T-2ACI/OT	MCP73831T-2ACI/OT	1
XRCGB32M000F2P01R0	32 MHz ±20ppm Crystal 8pF 100 Ohms 4-SMD, No Lead	Y1	XRCGB32M000F2P01R0	XRCGB32M000F2P01R0	1
32.768 kHz	CRYSTAL 32.768KHZ 12.5PF SMD	Y2	ABRACON ABS06	ABS06-32.768KHZ-1-T	1