

Components list V1.0

MAIN BOARD					
Name	Number	Type	Description		Value
J6	1	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J7	2	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J8	3	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J9	4	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J10	5	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J11	6	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J12	7	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
J13	8	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		
U3	9	Taiwan Semiconductor TS5205CX533 RF, LDO Voltage Regulator, 150mA, 3.3 V, +/-1.5% 5-Pin, SOT-25	TS5205CX533_RF:SOT95P270X125-5N	Taiwan Semiconductor TS5205CX533 RF, LDO Voltage Regulator, 150mA, 3.3 V, +/-1.5% 5-Pin, SOT-25	
C5	10	Polarized capacitor	Capacitor_SMD:C_0805_2012Metric	Polarized capacitor	2.2u
C4	11	Unpolarized capacitor	Capacitor_SMD:C_0805_2012Metric	Unpolarized capacitor	470p
U4	12	Taiwan Semiconductor TS5205CX533 RF, LDO Voltage Regulator, 150mA, 3.3 V, +/-1.5% 5-Pin, SOT-25	TS5205CX533_RF:SOT95P270X125-5N	Taiwan Semiconductor TS5205CX533 RF, LDO Voltage Regulator, 150mA, 3.3 V, +/-1.5% 5-Pin, SOT-25	
C3	13	Polarized capacitor	Capacitor_SMD:C_0805_2012Metric	Polarized capacitor	2.2u
C2	14	Unpolarized capacitor	Capacitor_SMD:C_0805_2012Metric	Unpolarized capacitor	470p
J1	15	Audio Jack, 2 Poles (Mono / TS), Grounded Sleeve	Connector_Audio:Jack_3.5mm_Ledino_KB3SPRS_Horizontal	Audio Jack, 2 Poles (Mono / TS), Grounded Sleeve	
R1	16	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	2.2k
C1	17	Polarized capacitor	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Polarized capacitor	1u
R2	18	Variable resistor	Potentiometer_THT:Potentiometer_ACP_CA14-H5_Horizontal	Variable resistor	R_Variable 2.2k
U5	19	Low-Power, Dual Operational Amplifiers, DIP-8/SOIC-8/TO-99-8	LM358N_NOPB:DIP794W53P254L959H508Q8N	Low-Power, Dual Operational Amplifiers, DIP-8/SOIC-8/TO-99-8	LM358
R4	20	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	15k
R3	21	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	1k
R6	22	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	10k
R5	23	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	1k
R8	24	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	10k
R7	25	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	10k
R10	26	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	270k
R9	27	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	1M
R13	28	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	10k
R12	29	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	27k
J0	30	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		110990030
U2	31	Hex inverter	HCF4069UBEY:DIP850W50P254L2000H510Q14N	Hex inverter	4069
J3	32	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		110990030
J2	33	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		110990030
J4	34	Grove connector	RJ11-6Z4_M0:TE_RJ11-6Z4_M0		RJ11-6Z4_M0
R14	35	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	10k

J5	36	Generic connector, single row, 01x09, script generated (kicad-library-utils/schlib/autogen/connector/)	Connector_PinHeader_2.54mm:PinHeader_1x09_P2.54mm_Vertical	Generic connector, single row, 01x09, script generated (kicad-library-utils/schlib/autogen/connector/)	Conn_01x09_Female
JP1	37	Jumper, normally closed	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	Jumper, normally closed	Jumper
R15	38	Resistor	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal	Resistor	220
D1	39	Light emitting diode	LED_THT:LED_D5.0mm	Light emitting diode	LED
C6	40	Polarized capacitor	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Polarized capacitor	22u
J14	41	Grove connector	Connector:NS-Tech_Grove_1x04_P2mm_Vertical		110990030
U0	42	NUCLEO-L432KC	NUCLEO-L432KC(2):MODULE_NUCLEO-L432KC		NUCLEO-L432KC
C7	43	Polarized capacitor	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Polarized capacitor	10u
C8	44	Polarized capacitor	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Polarized capacitor	1u
C9	45	Unpolarized capacitor	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Unpolarized capacitor	100n
XX	46	Sigfox Module	Kit Carte Breakout Sigfox BRKWS01		868M
XX	47	Sigfox Antenna	868 MHz antenna		
POWER BOARD					
U0	1	Adafruit TPL5110 Low Power Timer Breakout			
R0	2	Resistor			100k
SENSORS					
J1	1	Jack Microphone			
J2	2	HX711 Balance Module			
J2	3	200 Kg Weight sensor	200KG-Electronic-Platform-Scale-Load-Cell-Pressure-Balanced-Cantilever-Load-Weight-Sensor		
J3	4	SHT20 Humidity Sensor			
J14	5	TMP36 Temperature Sensor			
J4	6	Anemometer			
J8	7	DS1820 Temperature Sensor			
J9	8	DS1820 Temperature Sensor			
J12	9	DS1820 Temperature Sensor			
J13	10	DS1820 Temperature Sensor			
OTHERS					
XX	1	Solar Panel	2W Solar Panel		2W
XX	2	5V Power Supply from Battery + Solar Panel	LIPO RIDER PRO BOARD		