



Title		
Size	Number	Revision
A4		
Date:	11/15/2020	Sheet of
File:	C:\Users\...\Smart Agriculture Schematic.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
	Capacitor, Resistor	C1, C2, C3, C4, C5, C6, C7, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	1608[0603]	Cap, Res1	18
PJ-102B	Through Hole Right Angle DC Power Jack, 2.5 A, 2.5 mm Center Pin, 3 Position, -25 to 85 degC, RoHS, Bulk	J1	CUI-PJ-102B_V	CMP-2000-06900-1	1
	Inductor	L1	1812	Inductor	1
Battery	Header, 2-Pin	P1	HDR1X2	Header 2	1
Thermistor	Header, 2-Pin	P2	HDR1X2	Header 2	1
VGH400	Header, 3-Pin	P3	HDR1X3	Header 3	1
I2C Breakout	Header, 2-Pin	P4	HDR1X2	Header 2	1
BC Bypass	Header, 3-Pin	P?	HDR1X3	Header 3	1
MCP16414-I/UN		U1	SOP50P490X110-11N	Component_1	1
BQ24074RGTR	USB-Friendly Li-Ion Battery Charger and Power-Path Management IC, 10.5 V OVP, 4.3 V, -40 to 85 degC, 16-pin QFN (RGT), Green (RoHS & no Sb/Br)	U2	RGT0016C_V	CMP-0321-00220-2	1
Feather M0 LoRa		U3	FeatherM0LoRa	Feather M0 LoRa	1
VEML7700-TR	Optical Sensor Ambient 545nm IÂ²C 4 SMD, J-Lead	U4	XDCR_VEML7700-TR	VEML7700-TR	1
BME280	Humidity Temperature Sensor 0 ~ 100% RH IÂ²C, SPI Â±3% 1s Surface Mount	U5	PSON65P250X250X10 0-8N	BME280	1