



Title		
Size	Number	Revision
A4		
Date:	18/08/2019	Sheet of
File:	C:\Users\...\Drone-Schematic-v1.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
10uF		C1, C7, C8, C9, C10	1206CAP	Capacitor	5
100nF		C2, C3, C5, C6, C11, C12, C13, C14	1206CAP	Capacitor	8
100uF		C4	1206CAP	Capacitor	1
LED	Ligth Emitting Diode (LED)	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12	1206DIODE	LED	12
TBX2X1	Terminal Block 2 pins, 1 row	M1, M2, M3, M4	JST 1.25mm	TBX2X1	4
SPI	Header, 6-Pin	P1	HDR1X6	Header 6	1
IIC	Header, 4-Pin	P2	HDR1X4	Header 4	1
UART	Header, 4-Pin	P3	HDR1X4	Header 4	1
OUTS	Header, 2-Pin	P4	HDR1X2	Header 2	1
S8050	Transistor NPN 500mA 25V SOT-23(SOT-23-3) RoHS	Q1, Q2	SOT-23(SOT-23-3)	S8050	2
SI2302	MOSFET N Trench 20V 2.1A 1.2V @ 50uA 72 mO @ 3.6A,4.5V SOT-23(SOT-23-3) RoHS	Q3, Q4, Q5, Q6	SOT-23(SOT-23-3)	SI2302	4
470	Passive component	R1, R10, R11, R12, R13, R15, R16, R29, R30	1206RES	Resistor	9
12K	Passive component	R2, R9, R14, R17	1206RES	Resistor	4
3K3	Passive component	R3, R4, R5, R6, R7, R8, R25, R26, R27, R28	1206RES	Resistor	10
33K	Passive component	R18, R19, R23, R24	1206RES	Resistor	4
1.2K	Passive component	R20, R21, R22	1206RES	Resistor	3
PUSH BUTTON	Normally Open (NO) button	SW1, SW2	Push Button	PUSH BUTTON	2
SW DPDT	DPDT Switch	SW3	DPDT SW	SW DPDT	1
TB_BATT	Battery terminal block	TB1	JST 1.25mm	TB_BATT	1
ESP-12E	ESP8266 MCU based WIFI PCB Module	U1	ESP-12E	ESP-12E	1
CP2102	USB to UART interface IC 3.3v	U2	CP2102	CP2102	1
MPU6050	PCB Module, 3 Axis Analog Gyro Sensors+ 3 Axis Accelerometer, IIC	U3	MPU6050 - PCB MODULE	MPU6050	1
HMC5883L	PCB Module, Triple Axis Compass Magnetometer Sensor Module, IIC Conn	U4	HMC5883L - PCB MODULE	HMC5883L	1
MS5611	PCB Module, Atmospheric Pressure Sensor Module Meter Altimeter Sensor Module, IIC	U5	MS5611 - PCB MODULE	MS5611	1
KIA1117-3.3	LOD and Fixed positive voltage regulator 3.3V 1A	U6	KIA1117-3.3	KIA1117-3.3	1
TP4056	1A Standalone Linear Li-Ion Battery Charger with Thermal Regulation in SOP-8	U7	TP4056	TP4056	1
USB Connector	USB Connector	USB1	USB micro Female	USB	1