FDL-2+ BOM

Item	Quantity	Model
Major Components		
Brushless Motor	2	Multistar Elite 2204-2300KV
ESC	2	Afro ESC 12Amp BEC UltraLite Multirotor ESC V3 (SimonK Firmwa
Photon	1	Particle Photon wHeaders
20A power switch	1	Digikey EG4777-ND
Pot Knob	2	Digikey 450-1736-ND
Volt Meter	1	0.36" Volt Meter
25D Gear Motor	1	https://www.pololu.com/product/3202
Trigger Button	1	Digikey EG1938-ND
Microswitch (Pusher F&R)	2	Digikey P10864S-ND
Hardware		
6-32 Machine Screw 3/8	29	
6-32 Machine Screw 1/2	18	
6-32 Machine Screw 3/4	2	
6-32 Machine Screw 1	3	
10-32 Set Screw 1/4	1	
#10 washer	1	
M3x8 Hex Screw	9	
M2x5 Csnk Hex Screw	9	
M3x6 Csnk Hex Screw	3	
Spring from ballpoint pen	1	
DCP PCB		
PCB DCP	1	FDL-2 DCP V1.0
N Channel Mosfet	1	Digikey IRLU3410PBF-ND
P Channel Mosfet	1	Digikey IRFU5505PBF-ND
NPN Transistor	1	Digikey 2N4401-ND
Flyback Diode	1	Digikey UF4007CT-ND
Header Male 2p	3	
Resistor 10k	3	
Control PCB		
PCB Control	1	FDL-2 CTL V1.1
Header Fem 12p	2	
Header Male 2p	5	
Header Male 3p	1	
Header Male 4p	2	
Header Male 6p	1	
Trigger PCB		
PCB Trigger/Speed	1	FDL-2 TRG v1.1
Rotary Switch	1	Digikey CKN10699-ND
Potentiometer	2	Digikey PTV09A-4020F-B103-ND
Header Male 2p RgtAng	1	
Header Male 5p	1	
Resistor 1k	2	
Resistor 3.3k	1	

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Item	Quantity	Model
ESC Control		
M-F Y Splitter Servo Cable	1	
Power Distro/ESC Bundle		
3.5mm bullet conn male	1	
Female Tab Conn 1/4 12ga	1	
JR Conn Male & shell	1	
Battery Adapter		
XT60 conn male	1	
3.5mm bullet conn female	1	
Female Tab Conn 1/4 16ga	1	
16ga high strand silicon wire red/blk		
Notes		
Use 16ga silicon wire for battery connections, 22ga silicon wire for pusher motor and volt meter connections		
Use 24-26ga color coded wires for all digital signal wiring		
It is up to you how you choose to connect components to the PCB's. Choose simple slide connectors and crimp pins, JST connectors, or solder directly to the boards		