

Column10	Column9	Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
Item	Quantity	Reference	Value	Footprint	Datasheet	Description	Distributor	Part Number	Dist. PN
1	1	D3	LED	LEDs:LED-1206		LED Red SMD 1206	DigiKey	1516-1076-1-ND	
2	1	J1	RJ12	Connect:RJ12_E					
3	1	P1	CONNECTOR_POV	MakaitronicsKiCAD:ANDERSON_POWERPOLE_2)					
4	2	P12, P13	CONN_02X05	Pin_Headers:Pin_Header_Straight_2x05		Conn Header 10Pos 2x5	DigiKey	3M15448-ND	
5	1	Q1	Q_PMOS_DGS	TO_SOT_Packages_SMD:SOT-23		MOSFET P-CH 20V 6A SOT23	DigiKey	SSM3J327RLFCF-ND	
6	1	R4	500	Resistors_SMD:R_1206_HandSoldering		RES 510 5% 1/4W SMD 1206	DigiKey	311-510ERCT-ND	
7	2	R10, R12	47K	Resistors_SMD:R_1206_HandSoldering		RES 47K 5% 1/4W SMD 1206	DigiKey	311-47KERCT-ND	
8	2	R13, R14	51	Resistors_SMD:R_1206_HandSoldering		RES 51 5% 1/4W SMD 1206	DigiKey	311-51ERCT-ND	
9	1	R1	30K	Resistors_SMD:R_1206_HandSoldering		RES 30K 5% 1/4W SMD 1206	DigiKey	311-30KERCT-ND	
10	5	R5, R7-R9, R11	10K	Resistors_SMD:R_1206_HandSoldering		RES 10K 5% 1/4W SMD 1206	DigiKey	311-10KERCT-ND	
11	2	R2, R6	1.0K	Resistors_SMD:R_1206_HandSoldering		RES 1.0K 5% 1/4W SMD 1206	DigiKey	311-1.0KERCT-ND	
12	1	U2	PowerBoost 1000	Socket_Strips:Socket_Strip_Straight_1x08		PowerBoost 1000 Battery Backup	Adafruit	2465	
13	1	U4	MAX13432EESD	SOIC_Packages:SOIC-14_3.9x8.7mm_P1.27mm		IC Max13432EESD TXRX RS422/485 500KPBS 14SO	DigiKey	MAX13432EESD+-ND	
14	1	C3	220uF	Capacitors_SMD:c_elec_10x10		CAP Alum 220uF 20% 50V smd	DigiKey	493-2228-1-ND	
15	17	C2, C4, C7, C8, C10-C12, C14-C23	0.1uF	Capacitors_SMD:C_1210_HandSoldering		CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND	
16	7	C1, C5, C6, C9, C13, C24, C25	10uF	Capacitors_Tantalum_SMD:TantalC_SizeE_EIA-7.		CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND	
17	2	P10, P11	CONN_02X07	Pin_Headers:Pin_Header_Straight_2x07		Conn Header 14pos 2x7	DigiKey	3M15450-ND	
18	6	P4, P5, P6, P7, P8 P9,	CONN_01X04	Pin_Headers:Pin_Header_Straight_1x04		Conn Header 4Pos	DigiKey	732-5317-ND	
19	1	P3	Raspberry_Pi_+_C	Pin_Headers:Pin_Header_Straight_2x20		Conn Header Verticle 40pos 0.1"	DigiKey	732-5310-ND	
20	1	U1	PDQ30-Q24-S5-D	PiMib:pdq30		DC/DC Converter, 5V, 30W	DigiKey	102-3891-ND	
21	1	D1	D	Diodes_SMD:SMB-SMC_Universal_Handsolderin		Diode Gen Purpose, 100V, 5A, SMC	DigiKey	S5BC-FDICT-ND	
22	1	P2	Raspberry_Pi_+_C	Socket_Strips:Socket_Strip_Straight_2x20		Header, Female 40Pin,	DigiKey	952-2150-ND	
23	1	U7	LT1129CST-3.3	TO_SOT_Packages_SMD:SOT-223		IC Regulator, Linear, 3.3V, 700mA, SOT223-3	DigiKey	LT1128CST-3.3#PBF-ND	
24	2	Q2, Q3	DMG2305UX	TO_SOT_Packages_SMD:SOT-23		Mosfet, P-Ch 20V, 4.2A SOT23	DigiKey	DMG2305UX-13DICT-ND	
25	1	U6	PSOC_5LP	PiMib:DIP-52_1_ELL		PSOC 5LP Prototyping Kit	DigiKey	428-3390-ND	
26	2	Q4, Q5	BCV62	TO_SOT_Packages_SMD:SOT-143_Handsolderin		Trans, 2PNP, 30V, 0.1A, SOT143	DigiKey	BCV62BE6327HTSA1CT-ND	
27	2	U3, U5	ADAFRUIT_TXB01	PiMib:ADAFRUIT_TXB0104		TXB0104 Level Shifter	Adafruit	1875	