Description	Designator	Quantity Needed	Order Quantity	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Vendor Link	Datasheet Link	Supplier Unit Pr	ice	Supplier St	ubtotal
ESP32		1	In House	•	•			Digikey	Datasheet				
USB Connector		1	In House					Digikey	Datasheet				
8-Pin Interboard Connectors	Upstream/Downsteam Connectors	2	In House						•	•			
2A Fuse	F1	1	In House										
1.25A Fuse	F2	1	In House										
Light-Emitting Diode	LED1, LED2	2	Already Have The	ese									
Light-Emitting Diode	LED3	1	Already Have The	ese									
Light-Emitting Diode	LED4, LED5	2	Already Have The	ese									
2-Pin Connector (For Shunt)	J2	1	Will cut off piece	from 20-Pin Male Heade	er								
100uF Capacitor	C1	1	3	KEMET	A768EB107M1ELAE036	Digikey	399-A768EB107M1ELAE036CT-ND	Digikey	<u>Datasheet</u>	\$	0.47	\$	1.41
330uF Capacitor	C2	1	3	KEMET	T520B337M006ATE070	Digikey	399-18631-1-ND	Digikey	Datasheet	\$	1.47	\$	4.41
10uF Capacitor	C3	1	3	KEMET	C0805C106K8PACTU	Digikey	399-C0805C106K8PACTUCT-ND	Digikey	Datasheet	\$	0.11	\$	0.33
1uF Capacitor	C4	1	3	KEMET	C0402C105K8PACTU	Digikey	399-C0402C105K8PACTUDKR-ND	Digikey	Datasheet	\$	0.10	\$	0.30
Schottky Diodes	D1, D2, D3	3	6	ON Semiconductor	MBRS340T3G	Digikey	MBRS340T3GOSCT-ND	Digikey	Datasheet	\$	0.94	\$	5.64
Shunt Jumper	J1	1	10	TE Connectivity	382811-8	Digikey	A26228-ND	Digikey	Datasheet	\$	0.14	\$	1.36
20-Pin Male Header	J3	2	2	Harwin	M52-040023V2045	Digikey	952-3513-ND	<u>Digikey</u>	Datasheet	\$	2.94	\$	5.88
32-Pin Female Header	J4	1	1	Würth Elektronik	61303211821	Digikey	732-2860-ND	Digikey	Datasheet	\$	1.57	\$	1.57
330uH Inductor	L1	1	3	Murata	LQH43CN331K03L	Digikey	490-LQH43CN331K03LCT-ND	Digikey	Datasheet	\$	0.34	\$	1.02
10K Ohm Resistor	R1, R2, R6, R8, R9, R10	6	12	Vishay Dale	CRCW060310K0FKEA	Digikey	541-10.0KHCT-ND	Digikey	Datasheet	\$	0.03	\$	0.37
220 Ohm Resistor	R3	1	4	Vishay Dale	CRCW0603220RFKEA	Digikey	541-220HDKR-ND	Digikey	Datasheet	\$	0.10	\$	0.40
68 Ohm Resistor	R4, R5, R7, R11	4	12	Vishay Dale	CRCW060368R0FKEA	Digikey	541-68.0HDKR-ND	Digikey	Datasheet	\$	0.03	\$	0.37
Push Button	SW1	1	3	TE Connectivity	FSM2JSMASTR	Digikey	450-2144-1-ND	Digikey	Datasheet	\$	0.41	\$	1.23
Test Points	TP1, TP2, TP3, TP4, TP5	5	10	Keystone Electronics	5016	Digikey	36-5016DKR-ND	<u>Digikey</u>	Datasheet	\$	0.33	\$	3.26
Switching Voltage Regulator	U1	1	1	ON Semiconductor	LM2575D2T-3.3R4G	Digikey	LM2575D2T-3.3R4GOSCT-ND	Digikey	Datasheet	\$	3.32	\$	3.32
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