

Description	Designator	Quantity Needed	Order Quantity	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Vendor Link	Datasheet Link	Supplier Unit Price	Supplier Subtotal
ESP32		1	In House					<a href="#">Digipkey</a>	<a href="#">Datasheet</a>		
USB Connector		1	In House					<a href="#">Digipkey</a>	<a href="#">Datasheet</a>		
8-Pin Interboard Connectors	Upstream/Downsteam Connectors	2	In House								
2A Fuse	F1	1	In House								
Light-Emitting Diode	LED1, LED2	2	Already Have These								
Light-Emitting Diode	LED3	1	Already Have These								
Light-Emitting Diode	LED4, LED5	2	Already Have These								
100uF Capacitor	C1	1	3	KEMET	A768EB107M1ELAE036	Digipkey	399-A768EB107M1ELAE036CT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.47	\$ 1.41
330uF Capacitor	C2	1	3	KEMET	T520B337M006ATE070	Digipkey	399-18631-1-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 1.47	\$ 4.41
10uF Capacitor	C3	1	3	KEMET	C0805C106K8PACTU	Digipkey	399-C0805C106K8PACTUCT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.11	\$ 0.33
1uF Capacitor	C4	1	3	KEMET	C0402C105K8PACTU	Digipkey	399-C0402C105K8PACTUDKR-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.10	\$ 0.30
Schottky Diodes	D1, D2, D3	3	6	ON Semiconductor	MBRS340T3G	Digipkey	MBRS340T3GOSCT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.94	\$ 5.64
20-Pin Male Header	J3	2	2	Harwin	M52-040023V2045	Digipkey	952-3513-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 2.94	\$ 5.88
32-Pin Female Header	J4	1	1	Würth Elektronik	61303211821	Digipkey	732-2860-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 1.57	\$ 1.57
330uH Inductor	L1	1	3	Murata	LQH43CN331K03L	Digipkey	490-LQH43CN331K03LCT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.34	\$ 1.02
10K Ohm Resistor	R1, R2, R6, R8, R9, R10	6	12	Vishay Dale	CRCW060310K0FKEA	Digipkey	541-10.0KHCT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.03	\$ 0.37
220 Ohm Resistor	R3	1	4	Vishay Dale	CRCW0603220RFKEA	Digipkey	541-220HDKR-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.10	\$ 0.40
68 Ohm Resistor	R4, R5, R7, R11	4	12	Vishay Dale	CRCW060368R0FKEA	Digipkey	541-68.0HDKR-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.03	\$ 0.37
Push Button	SW1	1	3	TE Connectivity	FSM2JSMASR	Digipkey	450-2144-1-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.41	\$ 1.23
Test Points	TP1, TP2, TP3, TP4, TP5	5	10	Keystone Electronics	5016	Digipkey	36-5016DKR-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 0.33	\$ 3.26
Switching Voltage Regulator	U1	1	1	ON Semiconductor	LM2575D2T-3.3R4G	Digipkey	LM2575D2T-3.3R4GOSCT-ND	<a href="#">Digipkey</a>	<a href="#">Datasheet</a>	\$ 3.32	\$ 3.32
										Total Cost	\$ 29.51