

Phorae_v1.0_BOM

Id	Designator	Footprint	Quantity	Designation	Supplier and ref	Unit Cost for 1	Unit Cost for 10	Total Part Cost at 1 Unit	Total Part Cost at 10 Un	Notes
1	U4	SOT-23-5	1	AP2112K-3.3	https://www.digiki	0.35	0.287	0.35	0.287	
2	F1	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	1000mA	https://www.digiki	0.1	0.043	0.1	0.043	
3	D15,D2,D13,D6,D8,D11,D16,D4,D3,D1,D10,D12,D9,D7,D14,D5	WS2812-2020_SMD_MICRO	16	WS2812B	https://www.adafr	0.395	0.356	6.32	5.696	Largest cost, switch to Cl
	D15,D2,D13,D6,D8,D11,D16,D4,D3,D1,D10,D12,D9,D7,D14,D5	WS2812-2020_SMD_MICRO	0	WS2812B (Chinese)	https://www.ledlig	0.1	0.08	0	0	
4	R1,R2	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	2	5.1kΩ	https://www.digiki	0.1	0.019	0.2	0.038	
5	J4	PinHeader_2x10_P2.54mm_Vertical	1	Conn_02x10_Odd_Even	N/A	0	0	0	0	
6	C2,C1,C4,C8,C3,C6	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	6	10µF	https://www.digiki	0.087	0.0407	0.522	0.2442	
7	SW1	SW_DPDT_CK_JS202011JCQN	1	SW_DPDT_x2	https://www.digiki	0.68	0.654	0.68	0.654	
8	U1	TQFP-32_7x7mm_P0.8mm	1	ATSAMD21E15A-A	https://www.digiki	2.6	2.37	2.6	2.37	
9	U3	SOT-23-5	1	MCP73831-2-OT	https://www.digiki	0.76	0.63	0.76	0.63	
10	U2	NRF24L01_SMD	1	NRF24L01_Breakout	https://www.aliex	0.53	0.53	0.53	0.53	
11	R3	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	2kΩ	https://www.digiki	0.1	0.03	0.1	0.03	
12	J1	USB_C_Receptacle_GCT_USB4110	1	USB_C_Receptacle_USB2.0	https://www.digiki	1.35	1.143	1.35	1.143	
13	C5	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	1µF	https://www.digiki	0.1	0.03	0.1	0.03	
14	H2,H1	MountingHole_2.2mm_M2	2	MountingHole	N/A	0	0	0	0	
15	J3	PinHeader_2x05_P2.54mm_Vertical	1	Conn_02x05_Odd_Even	N/A	0	0	0	0	
16	J2	JST_PH_S2B-PH-SM4-TB_1x02-1MP_P2.00mm_Horizontal	1	JST 2 Pin	https://www.digiki	0.58	0.503	0.58	0.503	
			1	PCB		0.4	0.4	0.4	0.4	
			38					14.192	12.1982	