

Bill Of Materials for: Group 12

Last modified: 12/12/2024

PCB version: 2.3

BOM revision: 2.3.3P/NP = Place/Not Place

Cnt	Part References	P/NP	Mfg	Mfg PN	Description	Dist	Dist Part Number	Cost Ea.	Cost Total
1	C0	P	ESPRESSIF	N/A	ESP32 Microcontroller	Amazon	B08D5ZD528	5.33	5.33
1	C1	NP	Handson Tech	N/A	RF RC522 Reader IC Card Sensor Module	Amazon	B07KGBJ9VG	3.99	3.99
1	C2	NP	RAJGURU	N/A	Fingerprint Scanner	Amazon	B089LXDG94	19.33	19.33
1	C3	NP	ILITEK	N/A	OLED Display	Amazon	3-01-1435	8.49	8.49
1	C4	NP	STMicroelectronics	N/A	Voltage Regulator	Mouser	511-LM317T	0.63	0.63
1	C5	NP	HiLetgo	N/A	5V One Channel Relay Module	Amazon	B00LW15A4W	3.7	3.70
1	C6	NP	ATOPLEE	15060012S02	Solenoid Lock	Amazon	759218167424	3.99	3.99
1	C7C	NP	California JOS	N/A	12V DC Power Jack	Amazon	B09ZBN38FS	1.39	6.99
1	N/A	NP	LitStar	N/A	12V 2A AC Adapter Charger	Amazon	B0852HX9HV	11.99	11.99
2	C15, C13	P	KYOCERA AVX	08055C104J4T2A	0.1uF Capacitor	Digikey	478-KAM21BR71H104JTTR-ND	0.107	0.21
1	C14	P	Diodes Inc.	1N418W-7-F	Rectifier Diode	Digikey	1N4148W-FDITR-ND	0.091	0.09
2	C11, C12	P	onsemi	1N4007G	Flyback Diode	Digikey	1N4007GOS-ND	0.131	0.26
1	C8	P	Murata Electronics	GRM21BR60G107ME11L	100uF Capacitor	Digikey	490-13980-2-ND	0.458	0.46
2	R4, R5	P	Panasonic Elec. Comp.	ERJ-6ENF4701V	4.7k Resistor	Digikey	P4.70KCTR-ND	0.052	0.10
1	R3	P	YAGEO	RC0805FR-071KL	1k Resistor	Digikey	311-1.00KCRTR-ND	0.016	0.16
1	R1	P	Panasonic Elec. Comp.	ERA6AEB241V	240 Resistor	Digikey	10-ERA-6AEB241VTR-ND	0.101	1.01
1	R2	P	YAGEO	RT0805BRD07723RL	723 REsistor	Digikey	13-RT0805BRD07723RLCT-ND	0.126	1.26
1	C9	P	KEMET	C0805C106K8PACTU	10uF Cap	Digikey	399-C0805C106K8PAC7800CT-ND	0.073	0.07
2	N/A	NP	PSU Electronic Prototyping Lab	N/A	3D Printed Box	PSU	N/A	4.65	9.30
1	N/A	P	OSHPARK	N/A	PCB	OSHPARK	N/A	9.03	9.03
TOTAL:									86.40

VERSION INFO		
Rev	Date	Notes
1	2024-11-14	Initial BOM
1.2	2024-11-18	Updates from Design Reviews
2.3	2024-11-20	Verison 2.3 Updates
2.3.1	2024-12-4	Formatting and Information Updates
2.3.2	2024-12-9	Information Updates
2.3.3	2024-12-24	Information Updates