Bill Of Materials for 04 FLACUARIOT ESP32 MODULE

Design Title	04 FLACUARIOT ESP32 MODULE
Author	
Document Number	
Revision	
Design Created	Wednesday, September 8, 2021
Design Last Modified	Saturday, September 11, 2021
Total Parts In Design	130

0 Modules

Quantity	References	Value	LCSC Part #	Footprint

Sub-totals:

21 Capacitors

Quantity	References	Value	LCSC Part #	Footprint
14	C1,C2,C3,C4,C6,C9,C10,C11,C12,C17,C23,C25,C29,C35	100nF		0603_CAP
2	C5,C26	220uF		CAP SMD 6.3X7.7MM ALUMINUM 220UF/16V
3	C18,C19,C34	10uF		1206_CAP
1	C21	470uF		CAP SMD 10.5X10MM ALUMINUM 470UF/35V
1	C22	47uF		CAP SMD 6.3X7.7MM ALUMINUM 220UF/16V

Sub-totals:

55 Resistors

Quantity	References	Value	LCSC Part #	Footprint
17	R1,R2,R3,R4,R9,R10,R11,R12,R34,R37,R40,R43,R58,R59,R61,R62,R76	10k		0603_RES
4	R5,R6,R7,R8	1-1721150-3		117211503
8	R13,R14,R15,R16,R21,R22,R23,R24	4.7K		0603_RES
4	R17,R18,R19,R20	20k		0603_RES
4	R25,R26,R27,R28	680		0603_RES
9	R33,R36,R39,R42,R57,R60,R64,R71,R77	1k		0603_RES
4	R35,R38,R41,R44	4.7k		0603_RES
3	R63,R74,R75	10k		0805_RES
2	R84,R168	470		0603_RES

Sub-totals:

17 Integrated Circuits

Quantity	References	Value	LCSC Part #	Footprint
1	U1	74HC14		TSSOP14
2	U2,U19	74LS541		DIL20
6	U3,U4,U6,U9,U14,U16	PC817X1J		PC817X1J
1	U5	ESP32DEVKITV1		ESP32DEVKITV1
1	U7	TS78M05CP		TS78M05CP
1	U10	DS3231SN		SOIC127P1032X265-16N
1	U11	LM2576-3,3		TO170P1410X464-6
1	U12	7812		TO263
1	U13	LD1117S33		SOT230P700X180-4
1	U15	LM358N		SO8
1	U18	AT24C512B		SO8

Sub-totals:

8 Transistors

Quantity	References	Value	LCSC Part #	Footprint
7	Q1,Q2,Q3,Q4,Q9,Q10,Q13	PMBT3904,215		SOT23-3
1	Q14	P2003ED		TO252
Sub-totals:				

17 Diodes

Quantity	References	Value	LCSC Part #	Footprint
4	D1,D2,D3,D4	LED-GREEN		LEDC1608X60
4	D10,D12,D14,D16	RR1VWM6STFTR		SOD2614X116
5	D11,D13,D15,D17,D30	LED-RED		LEDC2012X120
1	D28	SS14-TP		DIOM5226X230N
1	D29	B330A-13-F		DIOM5226X230N
2	D33,D66	1N4148W		SOD123
Sub-totals:				

12 Miscellaneous

Quantity	References	Value	LCSC Part #	Footprint
1	BAT1	3V		BAT 3V EG
2	BLUETOOTH,LCD	CONN-H4		CONN-SIL4
1	F1	1A		FUSE SMD
2	J2,J4	TBLOCK-M4		TBLOCK-M4
2	J3,J5	TBLOCK-M2		TBLOCK-M2
1	J8	TBLOCK-M2		T-BLOCK 2PIN BLUE
1	L1	100u		SMD 12.5X12.5X5MM
1	LCD1	OLED12864I2C		NULL
1	SPI	CONN-SIL6		CONN-SIL6
Sub-totals:				

Totals: