

LIN	RD	Q	Part	MPN	DPN
	1 ESP1		1 ESP32 mod	ESP-WROOM-32D	
	2 LCD1		1 LCD+connector	ERC12864FSF-10	
	6 BCP BCM		1 Boost converter	AAT1217ICA-3.3-T1	
	7 U1		1 usb micro	ATSAMD21G15A-MUT	
9			1 Piezo	PS1240P02BT	445-2525-1-ND
10			1 Opamp		
11			1 USB connector	10118193-0001LF	609-4616-1-ND
12			6 LEDs		
13			1 LDO	AZ1117EH-3.3TRG1	AZ1117EH-3.3TRG1DICT-ND
14			1 IR emitter	APTD3216F3C-P22	
15			1 Inductor	MLZ2012M4R7HT000	
16			1 IR detector		
18			22u	GRM188R61A226ME15D	
19			7 10u	GRM188R61A106KE69D	
20			2 100n	06033C104KAT4A	
21			6 100k	RMCF0603FT100K	
22			4 330r	RC0603FR-07330RL	
23			3 4.7k	CRG0603F4K7	
24			1 1k	RMCF0603FT1K00	RMCF0603FT1K00CT-ND
25			1 2k	ERJ-3EKF2001V	

## Sheet2

LIN	RD	Q	Part	MPN	DPN
1	U1		1 ESP32 mod	ESP-WROOM-32D	
2	J2		1 LCD connector	ER-CON30HB-1	
3	U5		1 Boost converter 3.3V TSOT-23-6	AAT1217ICA-3.3-T1	
4	L1		1 Inductor 0805	MLZ2012M4R7HT000	
5	U2		1 usb micro qfn48	ATSAMD21G16B-MUT	
6	D1 D3 D4 D5 D6 D7		6 RGB LED, common anode 0606		
7	D2		1 IR emitter	IR26-21C/L110/TR8	
8	U6		1 Opamp SOT-23-5	MCP6001T-I/OT	
9	U3		1 LDO 3.3V SOT223	AZ1117EH-3.3TRG1	
10	J1		1 USB connector	10118193-0001LF	
11	C3 C6		2 100n cap 0603	06033C104KAT4A	
12	C1 C2 C4 C5 C7 C8 C9		7 10u cap 0603	GRM188R61A106KE69D	
13	R1 R2 R3 R14		4 330R 0603 resistor	RC0603FR-07330RL	
14	R4 R16		2 2k 0603 resistor	ERJ-3EKF2001V	
15	R5		1 1k 0603 resistor	RMCF0603FT1K00	
16	R6 R7 R11 R12 R13 R15		6 100k 0603 resistor	RMCF0603FT100K	
17	R8 R9 R10		3 4.7k 0603 resistor	CRG0603F4K7	

DN	notes
	Already purchased, on reel
	Already purchased, on reel
digikey	Needs to be purchased
digikey	Needs to be purchased
	Already purchased, continuous cut tape, no reel
	Already purchased, on reel, two different PN, compatible footprint
digikey	Needs to be purchased
digikey	Needs to be purchased
digikey	Needs to be purchased
digikey	Needs to be purchased
digikey	Needs to be purchased
digikey	Needs to be purchased, R14 value might change
digikey	Needs to be purchased, R16 value might change
digikey	Needs to be purchased
digikey	Needs to be purchased
digikey	Needs to be purchased