

# Bill Of Materials for Esprit

**Design Title** Esprit  
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**Document Number**  
**Revision** 1.2  
**Design Created** April 30, 2020  
**Design Last Modified** May 31, 2020  
**Total Parts In Design** 60

## 9 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	C1	10uF	C2012X7R1A106K125AC
5	C2,C5-C8	4.7uF	C2012X5R1A475K125AA
3	C3-C4,C9	0.1uF	C1608X8R1E104M080AA

Sub-totals:

## 18 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
10	R1-R7,R12-R14	1k	RC0805JR-071KL
1	R8	22.1K	RC0805FR-0722K1L
1	R9	47.5K	RC0805FR-0747K5L
2	R11,R18	2k	RC0805JR-072KL
1	R15	100k	RC0805JR-07100KL
2	R16-R17	270R	RC0805JR-07270RL
1	R19	10k	RC0805JR-0710KL

Sub-totals:

## 4 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	U1	ESP32-WROVER-B__16MB__	ESP32-WROVER-B__16MB__
1	U2	MCP73833T-AMI_UN	MCP73833T-AMI_UN
1	U3	CP2102N-A02-GQFN24R	CP2102N-A02-GQFN24R
1	U4	AP7361C-33E-13	AP7361C-33E-13

Sub-totals:

## 2 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	Q1	DMP1045U-7	DMP1045U-7
1	Q2	UMH3N	UMH3N

Sub-totals:

## 14 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
4	D1,D3,D9-D10	BLUE	LED-B-CLEAR-0805
2	D2,D5	YELLOW	LED-Y-DIFF-0805
4	D4,D6-D7,D13	GREEN	LED-G-DIFF-0805
1	D8	SP0503BAHTG	SP0503BAHTG
1	D11	10V 1A	MBRM110LT1G
1	D12	RED	LED-R-DIFF-0805
1	D14	BLUE	LED-B-DIFF-0805

Sub-totals:

## 13 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	J1	JST PH-2	S2B-PH-SM4-TB_LF__SN__
1	J2	1981568-1	1981568-1
1	J3	CONN-SIL8	CONN-SIL8
4	MP1-MP4	970060244	970060244
4	MP5-MP8	MPMS 002 0005 PH	MPMS 002 0005 PH

1	RT1	15k	NTCG203NH153JT1
1	SW1	PTS526_SM15_SMTR2_LFS	PTS526_SM15_SMTR2_LFS

Sub-totals:

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Totals:

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