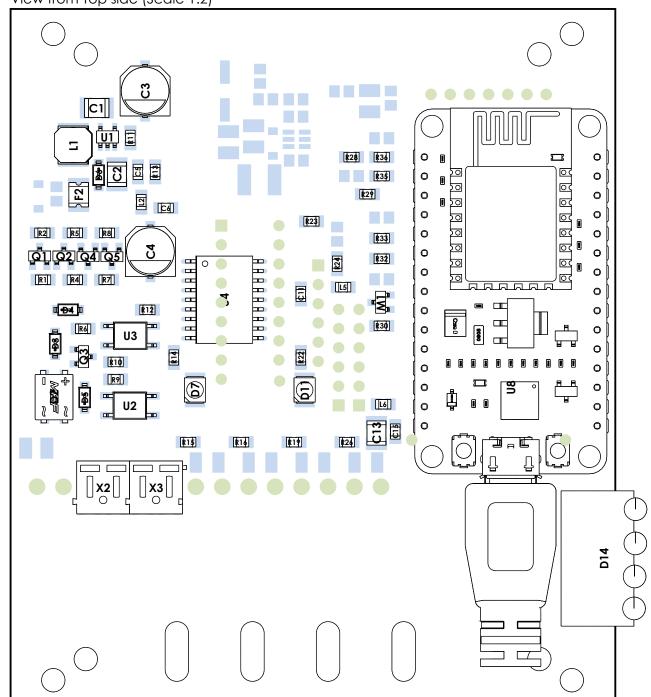
OTGW01_rev1-WiFi-usbpower-desk-soic

View from Top side (Scale 1:2)



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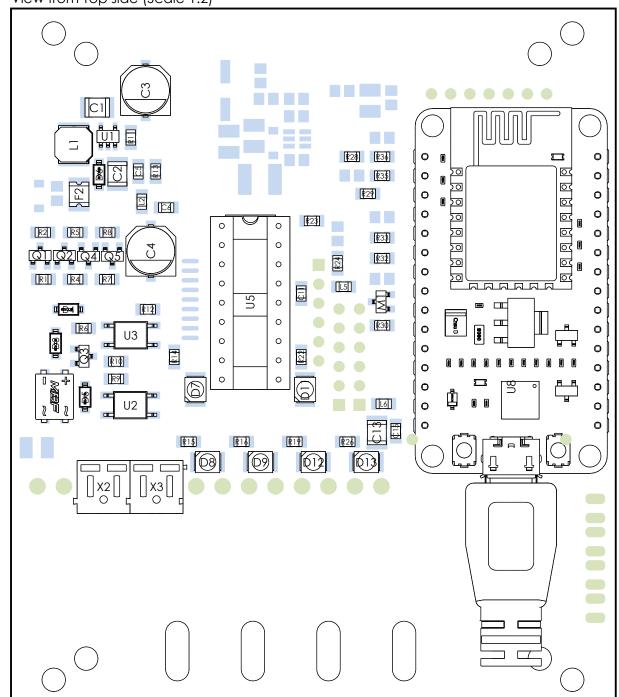
Item	Designator	Comment	Quantity	Footprint	Farnell Part
1	C1, C13	22uF/10V X5R	2	1210	2497183
3	C2	10uF/50V X7R	1	1210	2362133
4	C3, C4	47uF/50V	2	C_D8	1850121
5	C5	470pF/50V	1	0805	1520294
6	C6, C11, C15	100n	3	0805	2470437
7	D6	Schottky	1	SOD123	2284963
8	D14	MARL-4LED	1	MARL-4LED	9737367
9	D2	Bourns CDNBS04	1	SOD-106	1899476
10	D3	15V	1	SOD123	1843720
11	D4	4V3	1	SOD123	2077927
12	D5	4V7	1	SOD123	1902435
13	D7, D11	PLCC2 LED	2	PLCC2	2450615
14	F2	MF-USMF020-2	1	1210F	1294883
15	L1	SRN5040-100M	1	SRN5040	2428234
16	L2, L5, L6	1k @ 100MHz	3	0805	1635737
17	M1	FDV301N	1	SOT23	9845011
18	Q1-Q4	BC807	4	SOT23	2319246
19	Q5	BC817	1	SOT23	1081223
20	R1, R2, R28	33k	3	0805	9333053
21	R10	220Ω	1	0805	9332804
22	R11	10k	1	0805	9332391
23	R12, R14-R16, R19, R22, R26, R29	1k5	8	0805	9332600
24	R13	150k	1	0805	9332626
25	R24, R30, R32, R35	15k	4	0805	9332618
26	R33, R36	0Ω	2	0805	9233750
27	R4, R9	100Ω	2	0805	9332375
28	R5, R8	4k7	2	0805	9333266
29	R6, R23	330Ω	2	0805	9333037
30	R7	39Ω	1	0805	9333193
31	U1	LMR62421XMF	1	SOT23_5	2064678
32	U2, U3	HCPL-181	2	HCPL-181	1244525
33	U4	PIC16F88-I/SO	1	SOIC18	9761519
37	U8	NODEMCU v2	1	NODEMCU	
38	X2, X3	1x2	2	Terminal_2x3.5mm	1098611

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OTGW01_rev1-WiFi-usbpower-wall-dip-boardled

View from Top side (Scale 1:2)



Bill Of Materials

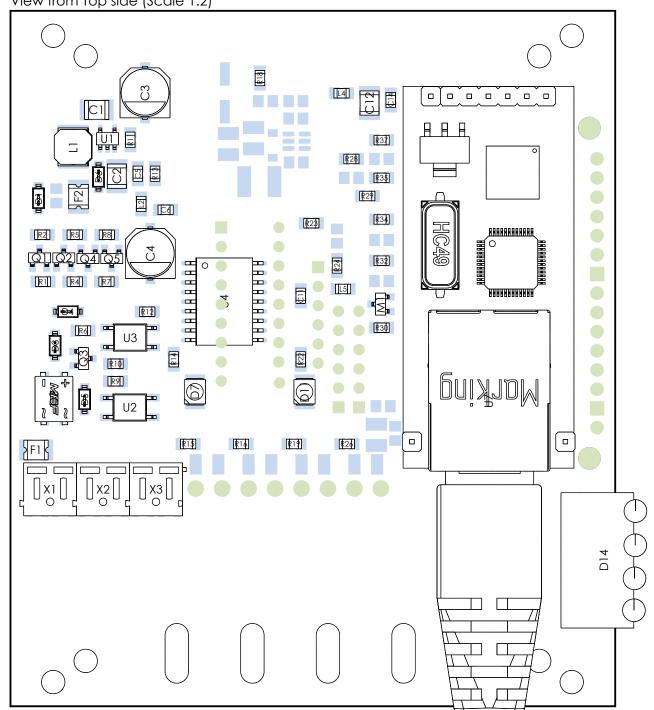
7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22	Designator C1, C13 C2 C3, C4 C5 C6, C11, C15 D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6 M1	Comment 22uF/10V X5R 10uF/50V X7R 47uF/50V 470pF/50V 100n Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	Quantity 2 1 2 1 3 1 1 1 1 1 1 1 3 3 3 3 3 1 1 1 3	Footprint 1210 1210 1210 C_D8 0805 0805 SOD123 SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F SRN5040	Farnell Part 2497183 2362133 1850121 1520294 2470437 2284963 1899476 1843720 2077927 1902435 2450615 1294883
3 4 5 6 7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22	C2 C3, C4 C5 C6, C11, C15 D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	10uF/50V X7R 47uF/50V 470pF/50V 100n Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 2 1 3 1 1 1 1 1 1 6 1 1 1 1 1 1 1 1 1 1 1	1210 C_D8 0805 0805 SOD123 SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F	2362133 1850121 1520294 2470437 2284963 1899476 1843720 2077927 1902435 2450615 1294883
4 5 6 7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22 P12 F	C3, C4 C5 C6, C11, C15 D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	47uF/50V 470pF/50V 100n Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	2 1 3 1 1 1 1 1 6 1	C_D8 0805 0805 SOD123 SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F	1850121 1520294 2470437 2284963 1899476 1843720 2077927 1902435 2450615 1294883
5 6 7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22	C5 C6, C11, C15 D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	470pF/50V 100n Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 3 1 1 1 1 1 6 1	0805 0805 SOD123 SOD-106 SOD123 SOD123 PLCC2 1210F	1520294 2470437 2284963 1899476 1843720 2077927 1902435 2450615 1294883
6 7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22 P12 F	C6, C11, C15 D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	100n Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	3 1 1 1 1 1 6 1	0805 SOD123 SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F	2470437 2284963 1899476 1843720 2077927 1902435 2450615 1294883
7 9 10 11 12 13 D 14 15 16 17 18 19 20 21 22	D6 D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	Schottky Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 1 1 1 1 6 1	SOD123 SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F	2284963 1899476 1843720 2077927 1902435 2450615 1294883
9 10 11 12 13 D 14 15 16 17 18 19 20 21 22	D2 D3 D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	Bourns CDNBS04 15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 1 1 1 6 1	SOD-106 SOD123 SOD123 SOD123 PLCC2 1210F	1899476 1843720 2077927 1902435 2450615 1294883
10 11 12 13 D 14 15 16 17 18 19 20 21 22	D3	15V 4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 1 1 6 1	SOD123 SOD123 SOD123 PLCC2 1210F	1843720 2077927 1902435 2450615 1294883
11 12 13 D 14 15 16 17 18 19 20 21 22	D4 D5 7-D9, D11-D13 F2 L1 L2, L5, L6	4V3 4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 1 6 1	SOD123 SOD123 PLCC2 1210F	2077927 1902435 2450615 1294883
12 13 D 14 15 16 17 18 19 20 21 22	D5 7-D9, D11-D13 F2 L1 L2, L5, L6	4V7 PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1 6 1	SOD123 PLCC2 1210F	1902435 2450615 1294883
13 D 14 15 16 17 18 19 20 21 22	7-D9, D11-D13 F2 L1 L2, L5, L6	PLCC2 LED MF-USMF020-2 SRN5040-100M 1k @ 100MHz	6 1 1	PLCC2 1210F	2450615 1294883
14 15 16 17 18 19 20 21 22	F2 L1 L2, L5, L6	MF-USMF020-2 SRN5040-100M 1k @ 100MHz	1	1210F	1294883
15 16 17 18 19 20 21 22	L1 L2, L5, L6	SRN5040-100M 1k @ 100MHz	1		
16 17 18 19 20 21 22	L2, L5, L6	1k @ 100MHz		SRN5040	
17 18 19 20 21 22			2		2428234
18 19 20 21 22	M1	EDV/204N	3	0805	1635737
19 20 21 22	191 1	FDV301N	1	SOT23	9845011
20 21 22	Q1-Q4	BC807	4	SOT23	2319246
21 22	Q5	BC817	1	SOT23	1081223
22	R1, R2, R28	33k	3	0805	9333053
D12 [R10	220Ω	1	0805	9332804
23 R12, F	R11	10k	1	0805	9332391
	R14-R16, R19, R22, R26, R29	1k5	8	0805	9332600
24	R13	150k	1	0805	9332626
25 R24	4, R30, R32, R35	15k	4	0805	9332618
26	R33, R36	0Ω	2	0805	9233750
27	R4, R9	100Ω	2	0805	9332375
28	R5, R8	4k7	2	0805	9333266
29	R6, R23	330Ω	2	0805	9333037
30	R7	39Ω	1	0805	9333193
31	U1	LMR62421XMF	1	SOT23_5	2064678
32		HCPL-181	2	HCPL-181	1244525
34	U2, U3	PIC16F88-I/P	1	PDIP300-P18	9761500
37	U2, U3 U5		1	NODEMCU	
38	•	NODEMCU v2	2		

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В

OTGW01_rev1-Eth-ext_5V-desk-soic

View from Top side (Scale 1:2)



Bill Of Materials

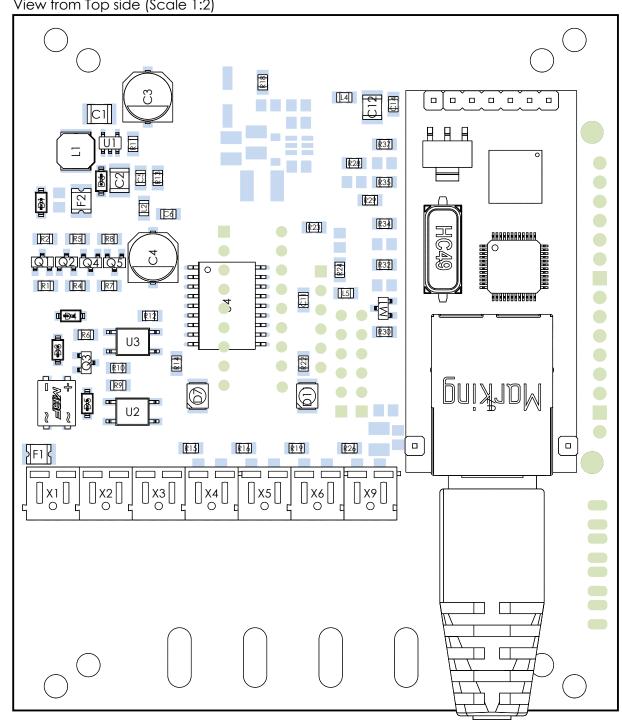
1 C1, C12 22uF/10V X5R 2 1210 249718 3 C2 10uF/50V X7R 1 1210 236213 4 C3, C4 47uF/50V 2 C_D8 185012 5 C5 470pF/50V 1 0805 152029 6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 207792 12 D5 4V7 1 SOD123 184372 13 D7, D11 PLC2 LED 2 PLC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 <td< th=""><th>DIII OI Wate</th><th>ilais</th><th></th><th></th><th></th><th></th></td<>	DIII OI Wate	ilais				
3 C2 10uF/50V X7R 1 1210 236213 4 C3, C4 47uF/50V 2 C_D8 185012 5 C5 470pF/50V 1 0805 152029 6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 207792 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 207792 12 D5 MV7 <td< td=""><td>Item</td><td>Designator</td><td>Comment</td><td>Quantity</td><td>Footprint</td><td>Farnell Part</td></td<>	Item	Designator	Comment	Quantity	Footprint	Farnell Part
4 C3, C4 47uF/50V 2 C_D8 185012 5 C5 470pF/50V 1 0805 152029 6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17	1	C1, C12	22uF/10V X5R	2	1210	2497183
5 C5 470pF/50V 1 0805 152029 6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD-103 184372 11 D4 4V3 1 SOD123 1207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k@ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 281924 19 Q5	3	C2	10uF/50V X7R	1	1210	2362133
6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD-106 189947 11 D4 4V3 1 SOD-1023 184372 11 D4 4V3 1 SOD123 190243 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 231924 19 Q5<	4	C3, C4	47uF/50V	2	C_D8	1850121
7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 231924 19 Q5 BC817 1 SOT23 231924 19 Q5 BC817 1 SOT23 933260 21 R1, R2, R28<	5	C5	470pF/50V	1	0805	1520294
8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 29184501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 231924 19 Q5 BC817 1 SOT23 10812 20 R1, R2, R28 <td>6</td> <td>C6, C11, C14</td> <td>100n</td> <td>3</td> <td>0805</td> <td>2470437</td>	6	C6, C11, C14	100n	3	0805	2470437
9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k@ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 294501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Ω 1 0805 933280 22 R11 <td< td=""><td>7</td><td>D1, D6</td><td>Schottky</td><td>2</td><td>SOD123</td><td>2284963</td></td<>	7	D1, D6	Schottky	2	SOD123	2284963
10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Ω 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R1	8	D14	MARL-4LED	1	MARL-4LED	9737367
11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13	9	D2	Bourns CDNBS04	1	SOD-106	1899476
12 D5 4V7 1 SOD123 190243 13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933260 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24	10	D3	15V	1	SOD123	1843720
13 D7, D11 PLCC2 LED 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933260 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26	11	D4	4V3	1	SOD123	2077927
14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26 <t< td=""><td>12</td><td>D5</td><td>4V7</td><td>1</td><td>SOD123</td><td>1902435</td></t<>	12	D5	4V7	1	SOD123	1902435
15 L1 SRN5040-100M 1 SRN5040 242823 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 933275 27 R4, R9 100Ω 2 0805 933326 29	13	D7, D11	PLCC2 LED	2	PLCC2	2450615
16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933260 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 933237 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933303 30 R7	14	F1, F2	MF-USMF020-2	2	1210F	1294883
17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933260 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 93327 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 9333303 30 R7 <t< td=""><td>15</td><td>L1</td><td>SRN5040-100M</td><td>1</td><td>SRN5040</td><td>2428234</td></t<>	15	L1	SRN5040-100M	1	SRN5040	2428234
18 Q1-Q4 BC807 4 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 933275 27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	16	L2, L4, L5	1k @ 100MHz	3	0805	1635737
19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933319 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	17	M1	FDV301N	1	SOT23	9845011
20 R1, R2, R28 33k 3 0805 933305 21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933261 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933319 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	18	Q1-Q4	BC807	4	SOT23	2319246
21 R10 220Ω 1 0805 933280 22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933262 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	19	Q5	BC817	1	SOT23	1081223
22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933262 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	20	R1, R2, R28	33k	3	0805	9333053
23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k 1 0805 933262 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	21	R10	220Ω	1	0805	9332804
23 R26, R29 R83 150k 1 0805 933260 24 R13 150k 1 0805 933262 25 R24, R30, R32, R35 15k 4 0805 933261 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 9332376 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064676	22	R11	10k	1	0805	9332391
25 R24, R30, R32, R35 15k 4 0805 9332618 26 R18, R34, R37 0Ω 3 0805 923375 27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064676	23		1k5	8	0805	9332600
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24	R13	150k	1	0805	9332626
27 R4, R9 100Ω 2 0805 933237 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	25	R24, R30, R32, R35	15k	4	0805	9332618
28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064676	26	R18, R34, R37	0Ω	3	0805	9233750
29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 206467	27	R4, R9	100Ω	2	0805	9332375
30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064678	28	R5, R8	4k7	2	0805	9333266
31 U1 LMR62421XMF 1 SOT23_5 2064676	29	R6, R23	330Ω	2	0805	9333037
	30	R7	39Ω	1	0805	9333193
32 U2, U3 HCPL-181 2 HCPL-181 124452	31	U1	LMR62421XMF	1	SOT23_5	2064678
	32	U2, U3	HCPL-181	2	HCPL-181	1244525
33 U4 PIC16F88-I/SO 1 SOIC18 9761519	33	U4	PIC16F88-I/SO	1	SOIC18	9761519
36 U7 USR-TCP232T 1 USR-TCP232-T	36	U7	USR-TCP232T	1	USR-TCP232-T	
38 X1-X3 1x2 3 Terminal_2x3.5mm 109861	38	X1-X3	1x2	3	Terminal_2x3.5mm	1098611

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View from Top side (Scale 1:2)

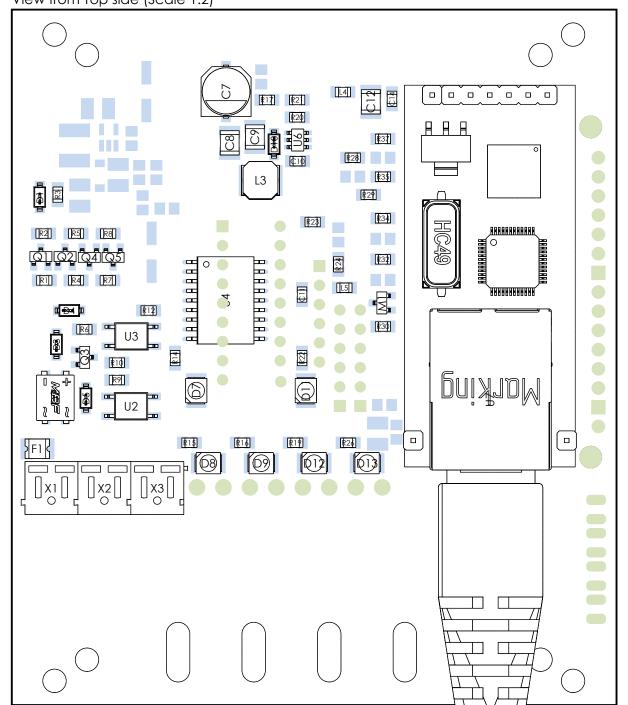


Bill Of Materials

Bill Of Mate Item	Designator	Comment	Quantity	Footprint	Farnell Part
	C1, C12		2	1210	2497183
1	,	22uF/10V X5R			
3	C2	10uF/50V X7R	1	1210	2362133
4	C3, C4	47uF/50V	2	C_D8	1850121
5	C5	470pF/50V	1	0805	1520294
6	C6, C11, C14	100n	3	0805	2470437
7	D1, D6	Schottky	2	SOD123	2284963
9	D2	Bourns CDNBS04	1	SOD-106	1899476
10	D3	15V	1	SOD123	1843720
11	D4	4V3	1	SOD123	2077927
12	D5	4V7	1	SOD123	1902435
13	D7, D11	PLCC2 LED	2	PLCC2	2450615
14	F1, F2	MF-USMF020-2	2	1210F	1294883
15	L1	SRN5040-100M	1	SRN5040	2428234
16	L2, L4, L5	1k @ 100MHz	3	0805	1635737
17	M1	FDV301N	1	SOT23	9845011
18	Q1-Q4	BC807	4	SOT23	2319246
19	Q5	BC817	1	SOT23	1081223
20	R1, R2, R28	33k	3	0805	9333053
21	R10	220Ω	1	0805	9332804
22	R11	10k	1	0805	9332391
23	R12, R14-R16, R19, R22, R26, R29	1k5	8	0805	9332600
24	R13	150k	1	0805	9332626
25	R24, R30, R32, R35	15k	4	0805	9332618
26	R18, R34, R37	ΩΩ	3	0805	9233750
27	R4, R9	100Ω	2	0805	9332375
28	R5, R8	4k7	2	0805	9333266
29	R6, R23	330Ω	2	0805	9333037
30	R7	39Ω	1	0805	9333193
31	U1	LMR62421XMF	1	SOT23_5	2064678
32	U2, U3	HCPL-181	2	HCPL-181	1244525
33	U4	PIC16F88-I/SO	1	SOIC18	9761519
36	U7	USR-TCP232T	1	USR-TCP232-T	0.01010
38	X1-X6, X9	1x2	7	Terminal_2x3.5mm	1098611
- 00	7(17,0,7,0	IAL	,	TOTTIMICI_ZXO.OHIIII	1000011

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View from Top side (Scale 1:2)



Bill Of Materials

Item	Designator	Comment	Quantity	Footprint	Farnell Part
1	C8, C12	22uF/10V X5R	2	1210	2497183
2	C10	0.22uF/10V X7R	1	0805	2409051
3	C9	10uF/50V X7R	1	1210	2362133
4	C7	47uF/50V	1	C_D8	1850121
6	C11, C14	100n	2	0805	2470437
7	D1, D10	Schottky	2	SOD123	2284963
9	D2	Bourns CDNBS04	1	SOD-106	1899476
10	D3	15V	1	SOD123	1843720
11	D4	4V3	1	SOD123	2077927
12	D5	4V7	1	SOD123	1902435
13	D7-D9, D11-D13	PLCC2 LED	6	PLCC2	2450615
14	F1	MF-USMF020-2	1	1210F	1294883
15	L3	SRN5040-100M	1	SRN5040	2428234
16	L4, L5	1k @ 100MHz	2	0805	1635737
17	M1	FDV301N	1	SOT23	9845011
18	Q1-Q4	BC807	4	SOT23	2319246
19	Q5	BC817	1	SOT23	1081223
20	R1, R2, R28	33k	3	0805	9333053
21	R10	220Ω	1	0805	9332804
23	R12, R14-R17, R19, R22, R26, R29	1k5	9	0805	9332600
25	R24, R30, R32, R35	15k	4	0805	9332618
26	R3, R34, R37	Ω0	3	0805	9233750
27	R4, R9	100Ω	2	0805	9332375
28	R5, R8	4k7	2	0805	9333266
29	R6, R20, R21, R23	330Ω	4	0805	9333037
30	R7	39Ω	1	0805	9333193
32	U2, U3	HCPL-181	2	HCPL-181	1244525
33	U4	PIC16F88-I/SO	1	SOIC18	9761519
35	U6	LMR14206	1	SOT23_6	2323514
36	U7	USR-TCP232T	1	USR-TCP232-T	
38	X1-X3	1x2	3	Terminal_2x3.5mm	1098611

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