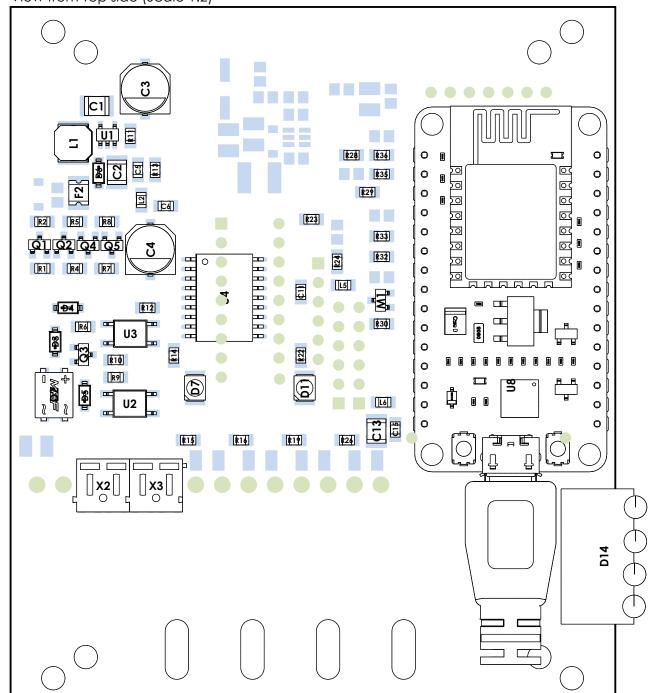
OTGW01_rev1-WiFi-usbpower-desk-soic

View from Top side (Scale 1:2)



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RIII	()T	11/12/14	⊇rıaıç

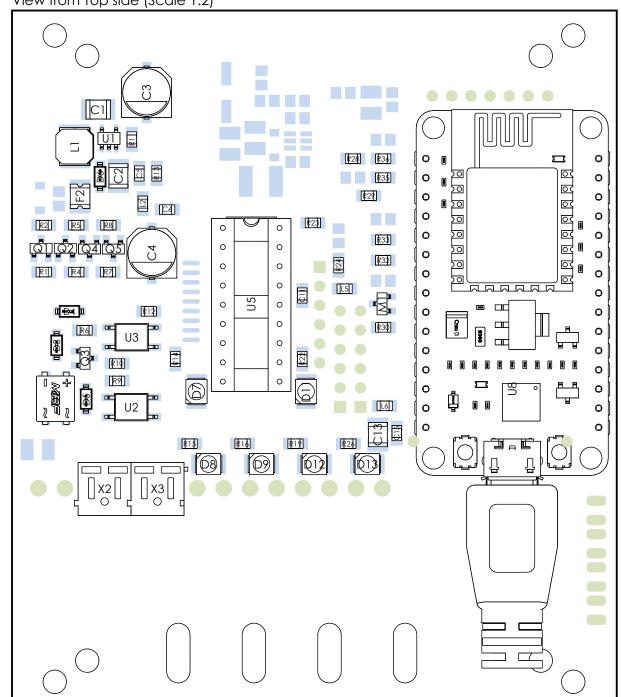
1 C1, C13 22uF/10V X5R 2 1210 3 C2 10uF/50V X7R 1 1210 4 C3, C4 47uF/50V 2 C_D8 5 C5 470pF/50V 1 0805 6 C6, C11, C15 100n 3 0805 7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23	arnell Part 2497183 2362133 1850121 1520294 2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
3 C2 10uF/50V X7R 1 1210 4 C3, C4 47uF/50V 2 C_D8 5 C5 470pF/50V 1 0805 6 C6, C11, C15 100n 3 0805 7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 <t< td=""><td>2362133 1850121 1520294 2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011</td></t<>	2362133 1850121 1520294 2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
4 C3, C4 47uF/50V 2 C_D8 5 C5 470pF/50V 1 0805 6 C6, C11, C15 100n 3 0805 7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23	1850121 1520294 2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737
5 C5 470pF/50V 1 0805 6 C6, C11, C15 100n 3 0805 7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805	1520294 2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
6 C6, C11, C15 100n 3 0805 7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2470437 2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
7 D6 Schottky 1 SOD123 8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2284963 9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
8 D14 MARL-4LED 1 MARL-4LED 9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	9737367 1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
9 D2 Bourns CDNBS04 1 SOD-106 10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	1899476 1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
10 D3 15V 1 SOD123 11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	1843720 2077927 1902435 2450615 1294883 2428234 1635737 9845011
11 D4 4V3 1 SOD123 12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2077927 1902435 2450615 1294883 2428234 1635737 9845011
12 D5 4V7 1 SOD123 13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	1902435 2450615 1294883 2428234 1635737 9845011
13 D7, D11 2 PLCC2 14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2450615 1294883 2428234 1635737 9845011
14 F2 MF-USMF020-2 1 1210F 15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	1294883 2428234 1635737 9845011
15 L1 SRN5040-100M 1 SRN5040 16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2428234 1635737 9845011
16 L2, L5, L6 1k @ 100MHz 3 0805 17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	1635737 9845011
17 M1 FDV301N 1 SOT23 18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	9845011
18 Q1-Q4 BC807 4 SOT23 19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	
19 Q5 BC817 1 SOT23 20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2010010
20 R1, R2, R28 33k 3 0805 21 R10 220Ω 1 0805	2319246
21 R10 220Ω 1 0805	1081223
	9333053
22 P11 10k 1 0905	9332804
22 NII 10K I 0003	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	2.0.0.0

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В

OTGW01_rev1-WiFi-usbpower-wall-dip-boardled

View from Top side (Scale 1:2)



Bill Of Materials

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
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		6	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
34	U5	PIC16F88-I/P	1	PDIP300-P18	9761500
37	U8	NODEMCU v2	1	NODEMCU	
38	X2, X3	1x2	2	Terminal_2x3.5mm	1098611

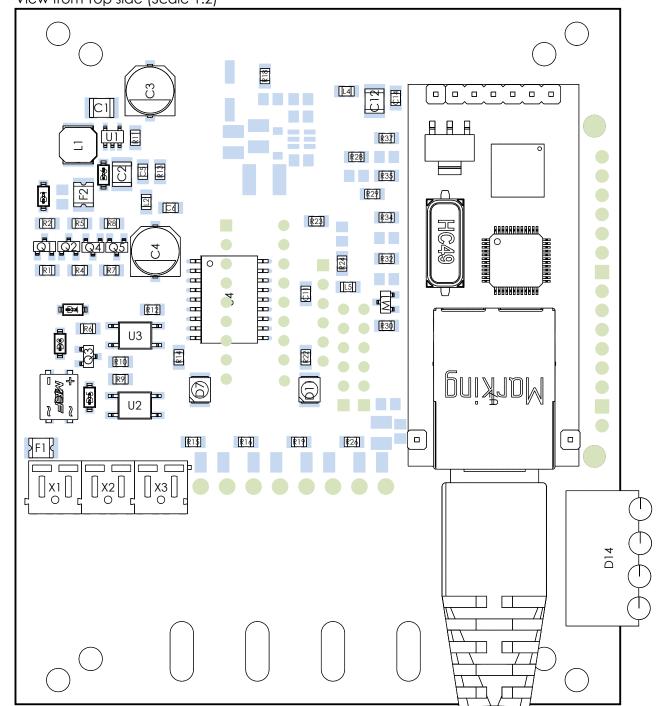
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В

OTGW01_rev1-Eth-ext_5V-desk-soic

View from Top side (Scale 1:2)



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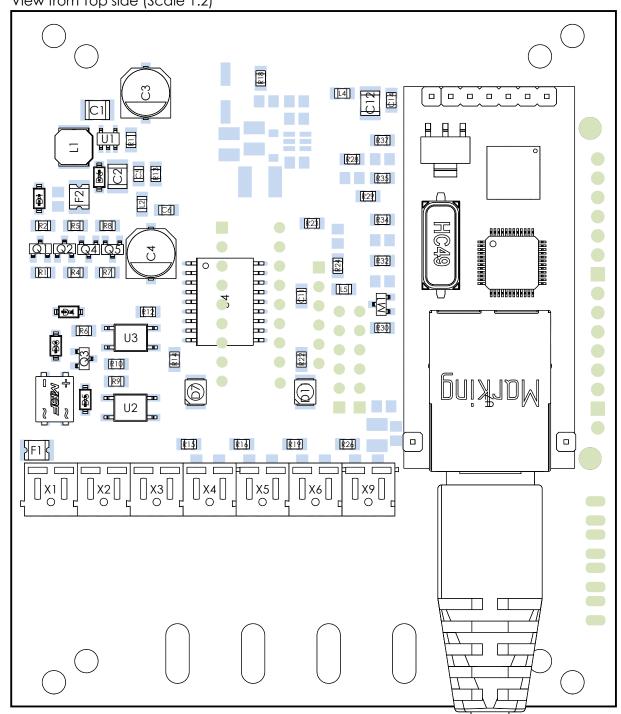
1 C1, C12 22uF/10V X5R 2 1210 249718 3 C2 10uF/50V X7R 1 1210 236213 4 C3, C4 47uF/50V 2 C_D8 185012 5 C5 470pF/50V 1 0805 152029 6 C6, C11, C14 100n 3 0805 247043 7 D1, D6 Schottky 2 SOD123 228496 8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 189947 10 D3 15V 1 SOD123 184372 11 D4 4V3 1 SOD123 18472 12 D5 4V7 1 SOD123 190243 13 D7, D11 2 PLCC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M <th>DIII OI Wate</th> <th>ilais</th> <th></th> <th></th> <th></th> <th></th>	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 1899470 10 D3 15V 1 SOD123 284961 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 207792 12 D5 MF-USMF020-2	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 1843720 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 207792 12 D5 4V7 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 2 PLC2 245061 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1	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-123 184372 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 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	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-103 184372' 12 D5 4V7 1 SOD123 190243' 13 D7, D11 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 BC807 4 SOT23 231924' 19 Q5 <	4	C3, C4	47uF/50V	2	C_D8	1850121
7 D1, D6 Schottky 2 SOD123 2284963 8 D14 MARL-4LED 1 MARL-4LED 9737363 9 D2 Bourns CDNBS04 1 SOD-106 1899476 10 D3 15V 1 SOD123 1843721 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 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 BC817 1 SOT23 231924 19 Q5 BC817 1 SOT23 231824 20 R1, R2, R28 33k <td>5</td> <td>C5</td> <td>470pF/50V</td> <td>1</td> <td>0805</td> <td>1520294</td>	5	C5	470pF/50V	1	0805	1520294
8 D14 MARL-4LED 1 MARL-4LED 973736 9 D2 Bourns CDNBS04 1 SOD-106 1899470 10 D3 15V 1 SOD123 1843720 11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 2 PLCC2 2450619 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 291824 19 Q5 BC817 1 SOT23 231924 19 Q5 BC817 1 SOT23 108122 20 R1, R2, R28 33k 3 0805 933280 21 R10 220Q	6	C6, C11, C14	100n	3	0805	2470437
9 D2 Bourns CDNBS04 1 SOD-106 189947/1 10 D3 15V 1 SOD123 184372/1 11 D4 4V3 1 SOD123 207792/2 12 D5 4V7 1 SOD123 190243/2 13 D7, D11 2 PLCC2 245061/2 14 F1, F2 MF-USMF020-2 2 1210F 129488/2 15 L1 SRN5040-100M 1 SRN5040 242823/2 16 L2, L4, L5 1k@ 100MHz 3 0805 163573/3 17 M1 FDV301N 1 SOT23 984501/3 18 Q1-Q4 BC807 4 SOT23 231924/4 19 Q5 BC817 1 SOT23 10812/2 20 R1, R2, R28 33k 3 0805 933280/2 21 R10 220Ω 1 0805 93329/2 23 R12, R14-R16, R19, R22,	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 2 PLCC2 2450613 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 933230* 23 R12, R14-R16, R19, R22, R26, R29	8	D14	MARL-4LED	1	MARL-4LED	9737367
11 D4 4V3 1 SOD123 207792 12 D5 4V7 1 SOD123 190243 13 D7, D11 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 933220 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260 24 R13 150k	9	D2	Bourns CDNBS04	1	SOD-106	1899476
12 D5 4V7 1 SOD123 190243 13 D7, D11 2 PLCC2 2450619 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823-1 16 L2, L4, L5 1k @ 100MHz 3 0805 163573 17 M1 FDV301N 1 SOT23 984501-1 18 Q1-Q4 BC807 4 SOT23 231924-1 19 Q5 BC817 1 SOT23 231924-1 19 Q5 BC817 1 SOT23 108122-1 20 R1, R2, R28 33k 3 0805 933280-1 21 R10 220Ω 1 0805 933280-1 22 R11 10k 1 0805 933260-1 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260-1 24 R13	10	D3	15V	1	SOD123	1843720
13 D7, D11 2 PLCC2 2450618 14 F1, F2 MF-USMF020-2 2 1210F 129488 15 L1 SRN5040-100M 1 SRN5040 242823-1 16 L2, L4, L5 1k @ 100MHz 3 0805 163573-1 17 M1 FDV301N 1 SOT23 984501-1 18 Q1-Q4 BC807 4 SOT23 231924-1 19 Q5 BC817 1 SOT23 108122-1 20 R1, R2, R28 33k 3 0805 933305-1 21 R10 220Ω 1 0805 933280-1 22 R11 10k 1 0805 933260-1 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260-1 24 R13 150k 1 0805 933260-1 25 R24, R30, R32, R35 15k 4 0805 933261-1 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- 20 R1, R2, R28 33k 3 0805 933305: 21 R10 220Ω 1 0805 933280- 22 R11 10k 1 0805 933280- 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- <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 16 L2, L4, L5 1k @ 100MHz 3 0805 163573-17 17 M1 FDV301N 1 SOT23 984501-17 18 Q1-Q4 BC807 4 SOT23 231924-17 19 Q5 BC817 1 SOT23 108122-17 20 R1, R2, R28 33k 3 0805 933305-17 21 R10 220Ω 1 0805 933280-17 22 R11 10k 1 0805 933280-17 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 933260-17 24 R13 150k 1 0805 933260-17 25 R24, R30, R32, R35 15k 4 0805 933260-17 26 R18, R34, R37 0Ω 3 0805 93327-16 27 R4, R9 100Ω 2 0805 933237-16	13	D7, D11		2	PLCC2	2450615
16 L2, L4, L5 1k @ 100MHz 3 0805 163573* 17 M1 FDV301N 1 SOT23 984501* 18 Q1-Q4 BC807 4 SOT23 2319246* 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 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 933236* 28 R5, R8 4k7 2 0805 933326* 29	14	F1, F2	MF-USMF020-2	2	1210F	1294883
17 M1 FDV301N 1 SOT23 984501 18 Q1-Q4 BC807 4 SOT23 2319244 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 933275 27 R4, R9 100Ω 2 0805 933236 28 R5, R8 4k7 2 0805 933326 29 R6, R23 330Ω 2 0805 933319 31 U1 <	15	L1	SRN5040-100M	1	SRN5040	2428234
18 Q1-Q4 BC807 4 SOT23 2319240 19 Q5 BC817 1 SOT23 1081223 20 R1, R2, R28 33k 3 0805 9333053 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 9332375 27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 9333261 30 R7 39Ω 1 0805 9333193 31 U1	16	L2, L4, L5	1k @ 100MHz	3	0805	1635737
19 Q5 BC817 1 SOT23 1081223 20 R1, R2, R28 33k 3 0805 9333053 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 933319 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064678	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 933260 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 2064678	18	Q1-Q4	BC807	4	SOT23	2319246
21 R10 220Ω 1 0805 9332804 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 9332375 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064678	19	Q5	BC817	1	SOT23	1081223
22 R11 10k 1 0805 933239 23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 9332600 24 R13 150k 1 0805 9332620 25 R24, R30, R32, R35 15k 4 0805 9332610 26 R18, R34, R37 0Ω 3 0805 9233750 27 R4, R9 100Ω 2 0805 93323750 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 9333193 30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064678	20	R1, R2, R28	33k	3	0805	9333053
23 R12, R14-R16, R19, R22, R26, R29 1k5 8 0805 9332600 24 R13 150k 1 0805 9332620 25 R24, R30, R32, R35 15k 4 0805 9332618 26 R18, R34, R37 0Ω 3 0805 9233750 27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064678	21	R10	220Ω	1	0805	9332804
23 R26, R29 R83 0805 9332606 24 R13 150k 1 0805 9332626 25 R24, R30, R32, R35 15k 4 0805 9332618 26 R18, R34, R37 0Ω 3 0805 9233756 27 R4, R9 100Ω 2 0805 9332376 28 R5, R8 4k7 2 0805 9333266 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064678	22	R11	10k	1	0805	9332391
25 R24, R30, R32, R35 15k 4 0805 9332618 26 R18, R34, R37 0Ω 3 0805 9233750 27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 933319 31 U1 LMR62421XMF 1 SOT23_5 2064678	23		1k5	8	0805	9332600
26 R18, R34, R37 0Ω 3 0805 9233750 27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 9333260 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064678	24	R13	150k	1	0805	9332626
27 R4, R9 100Ω 2 0805 9332375 28 R5, R8 4k7 2 0805 9333266 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064673	25	R24, R30, R32, R35	15k	4	0805	9332618
28 R5, R8 4k7 2 0805 9333266 29 R6, R23 330Ω 2 0805 933303 30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064678	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 2064678	27	R4, R9	100Ω	2	0805	9332375
30 R7 39Ω 1 0805 9333193 31 U1 LMR62421XMF 1 SOT23_5 2064678	28	R5, R8	4k7	2	0805	9333266
31 U1 LMR62421XMF 1 SOT23_5 2064678	29	R6, R23	330Ω	2	0805	9333037
	30	R7	39Ω	1	0805	9333193
32 U2, U3 HCPL-181 2 HCPL-181 1244529	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)



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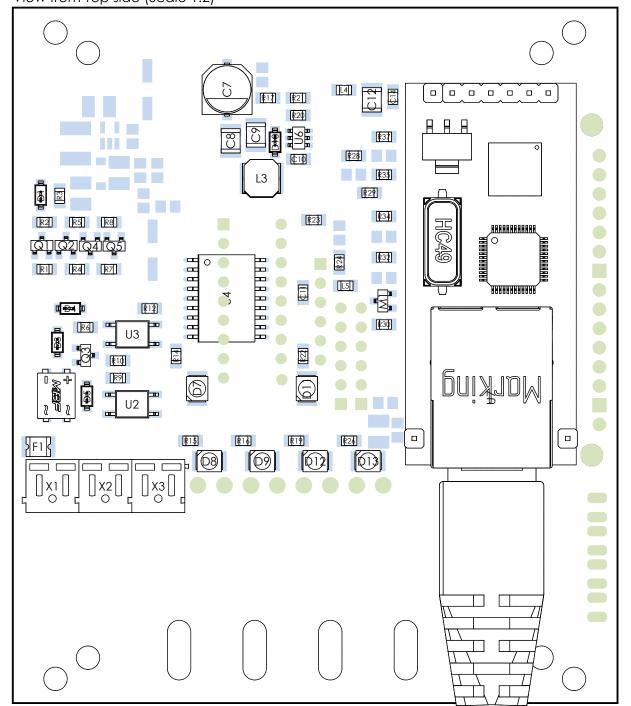
Quantity	Footprint	Farnell Part
Quantity 2	1210	2497183
1	1210	2362133
2	C_D8	1850121
1	0805	1520294
3	0805	2470437
2	SOD123	2284963
4 1	SOD-106	1899476
1	SOD123	1843720
1	SOD123	2077927
1	SOD123	1902435
2	PLCC2	2450615
2	1210F	1294883
1 1	SRN5040	2428234
3	0805	1635737
1	SOT23	9845011
4	SOT23	2319246
1	SOT23	1081223
3	0805	9333053
1	0805	9332804
1	0805	9332391
8	0805	9332600
1	0805	9332626
4	0805	9332618
3	0805	9233750
2	0805	9332375
2	0805	9333266
2	0805	9333037
1	0805	9333193
1	SOT23_5	2064678
2	HCPL-181	1244525
1	SOIC18	9761519
1	USR-TCP232-T	
		1098611
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OTGW01_rev1-Eth-ext_15-20V-desk-soic-boardled

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		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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