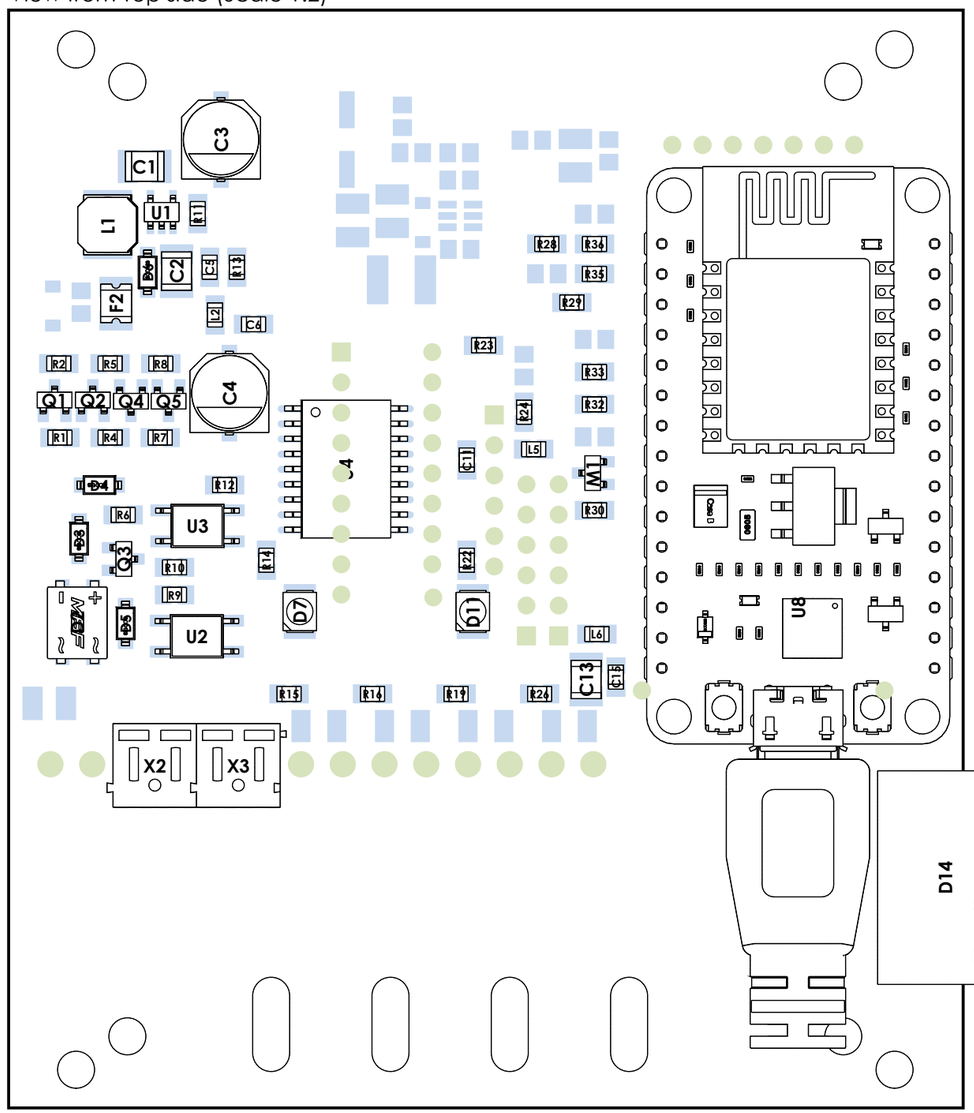
OTGW01_rev1-WiFi-usbpower-desk-soic

View from Top side (Scale 1:2)

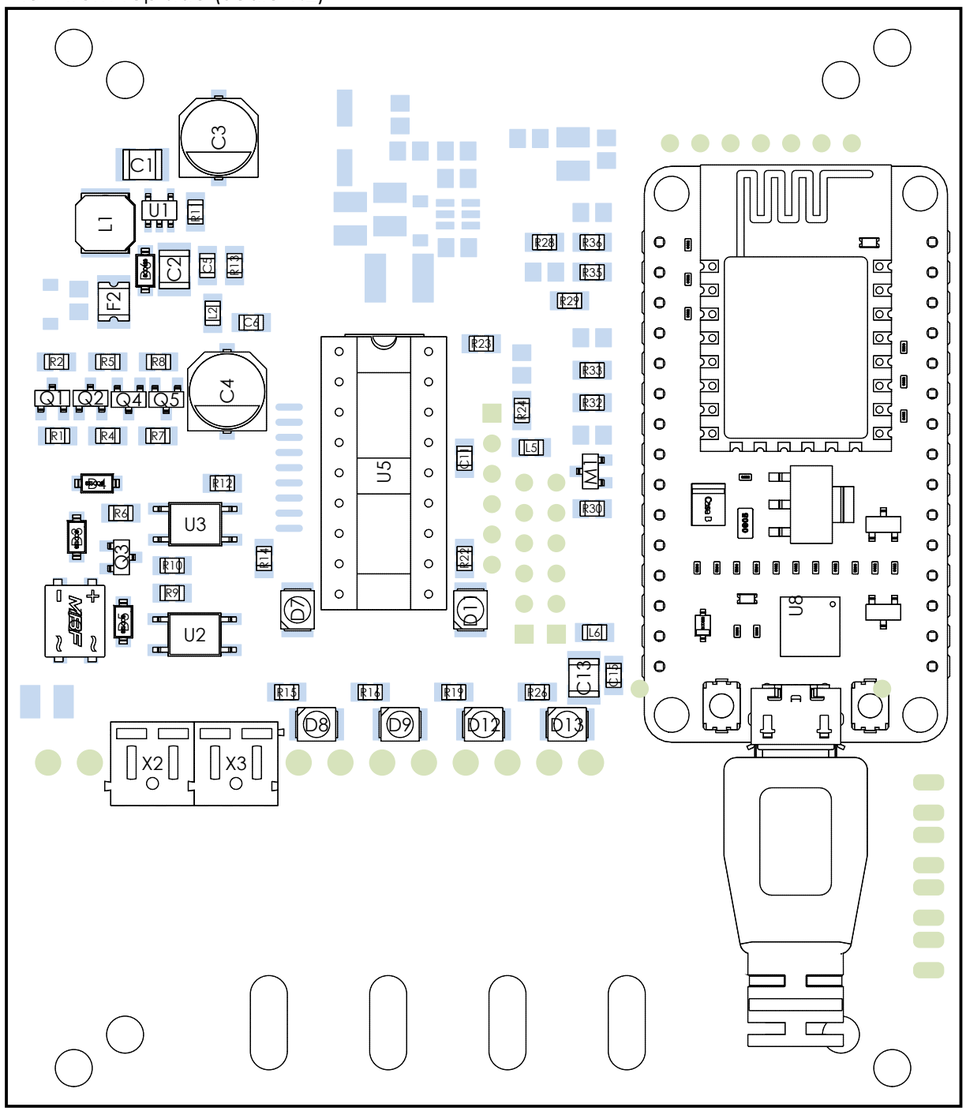


Bill Of Materials

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
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

OTGW01_rev1-WiFi-usbpower-wall-dip-boardled

View from Top side (Scale 1:2)

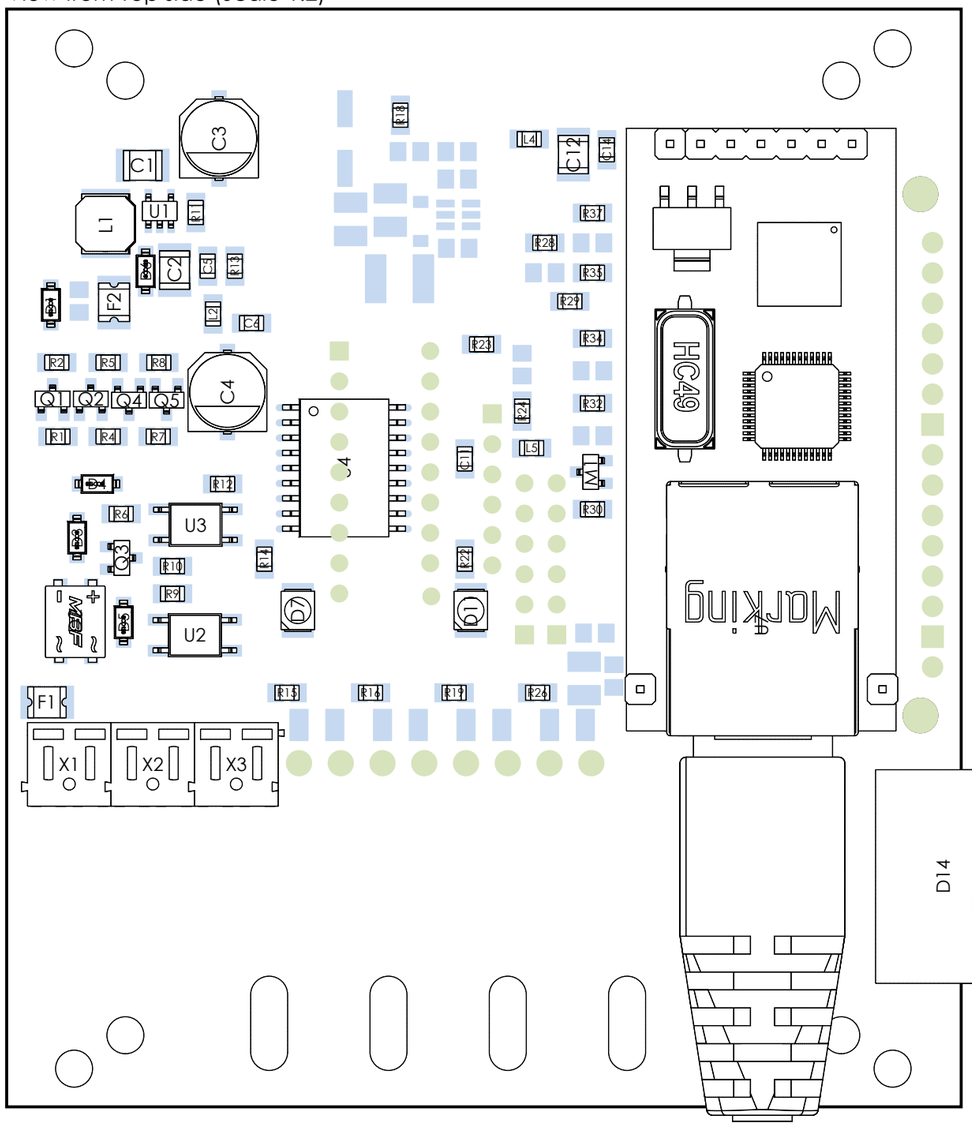


Bill Of Materials

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	PLCC2 LED	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

OTGW01_rev1-Eth-ext_5V-desk-soic

View from Top side (Scale 1:2)

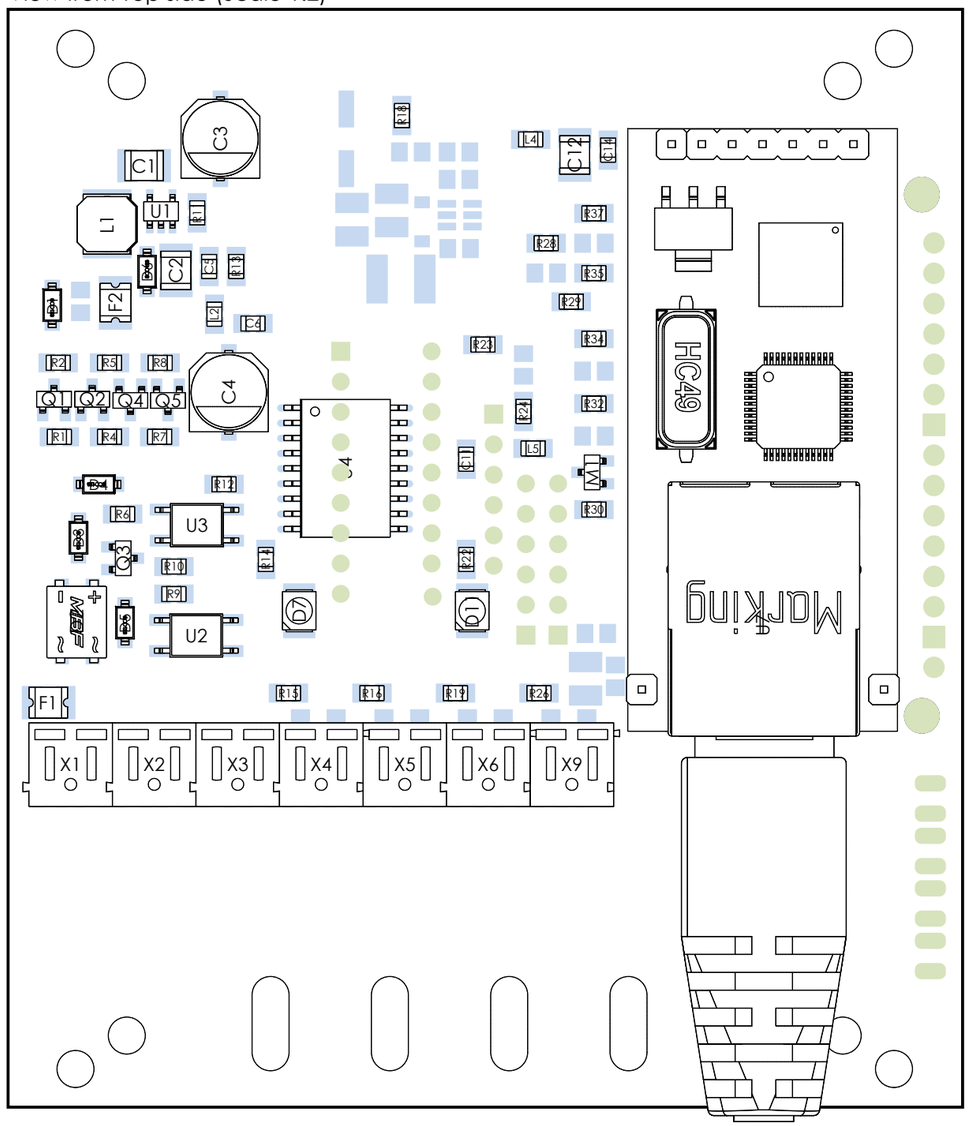


Bill Of Materials

Item	Designator	Comment	Quantity	Footprint	Farnell Part
1	C1, C12	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, C14	100n	3	0805	2470437
7	D1, D6	Schottky	2	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	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	0Ω	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	
38	X1-X3	1x2	3	Terminal_2x3.5mm	1098611

OTGW01_rev1-Eth-ext_5V-wall-soic-extled

View from Top side (Scale 1:2)

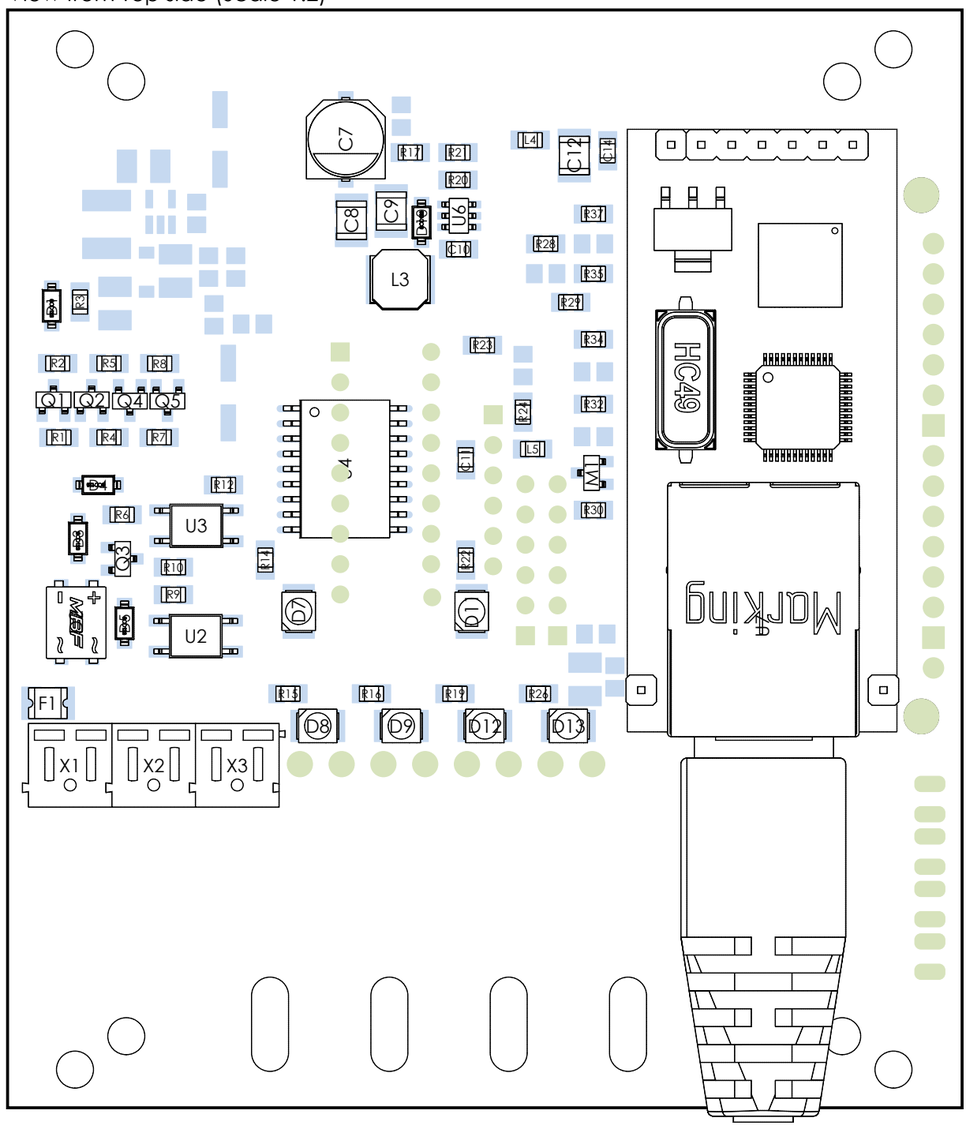


Bill Of Materials

Item	Designator	Comment	Quantity	Footprint	Farnell Part
1	C1, C12	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, 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	0Ω	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	
38	X1-X6, X9	1x2	7	Terminal_2x3.5mm	1098611

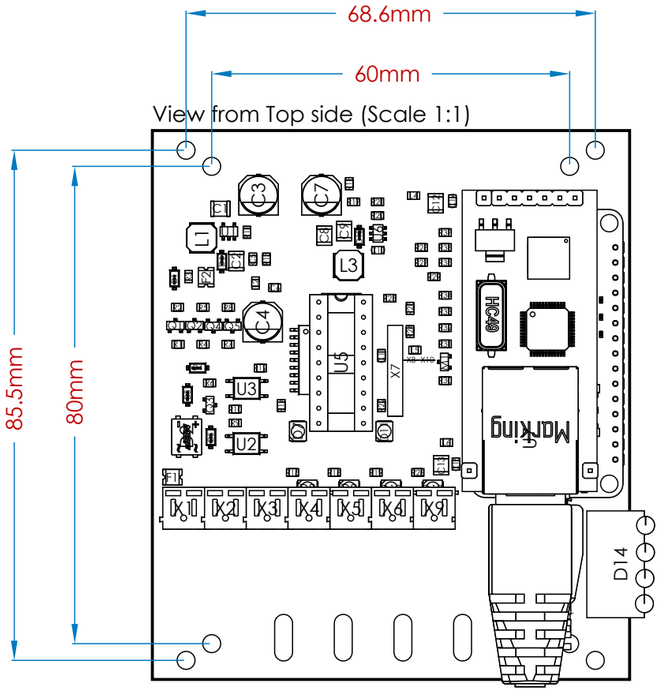
OTGW01_rev1-Eth-ext_15-20V-desk-soic-boardled

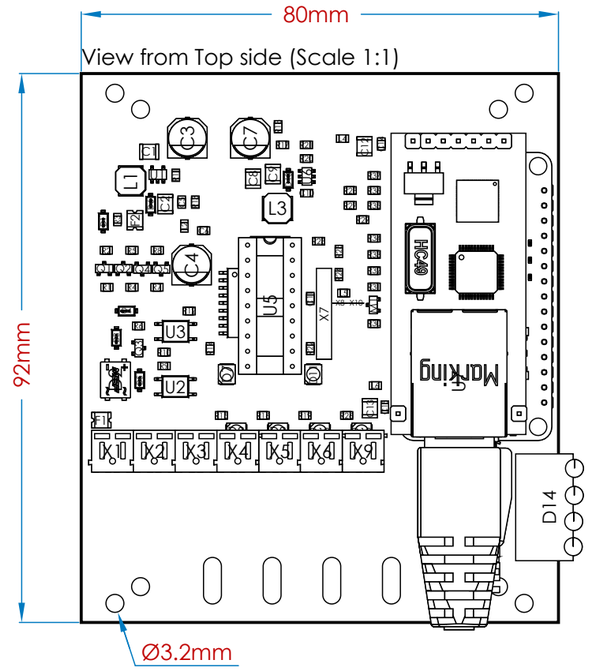
View from Top side (Scale 1:2)

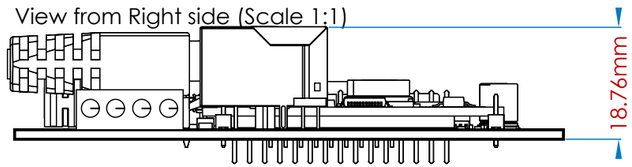


Bill Of Materials

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	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	0Ω	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


68.6mm
60mm
View from Top side (Scale 1:1)
85.5mm
80mm
C3
C7
L1
L3
C4
HC49
U5
U3
U2
X7
K1
K2
K3
K4
K5
K6
K7
D14
Marking


80mm
View from Top side (Scale 1:1)
92mm
C3
C7
L1
L3
C4
HC49
U5
U3
U2
X7
K1
K2
K3
K4
K5
K6
K7
D14
Marking
Ø3.2mm


View from Right side (Scale 1:1)
18.76mm