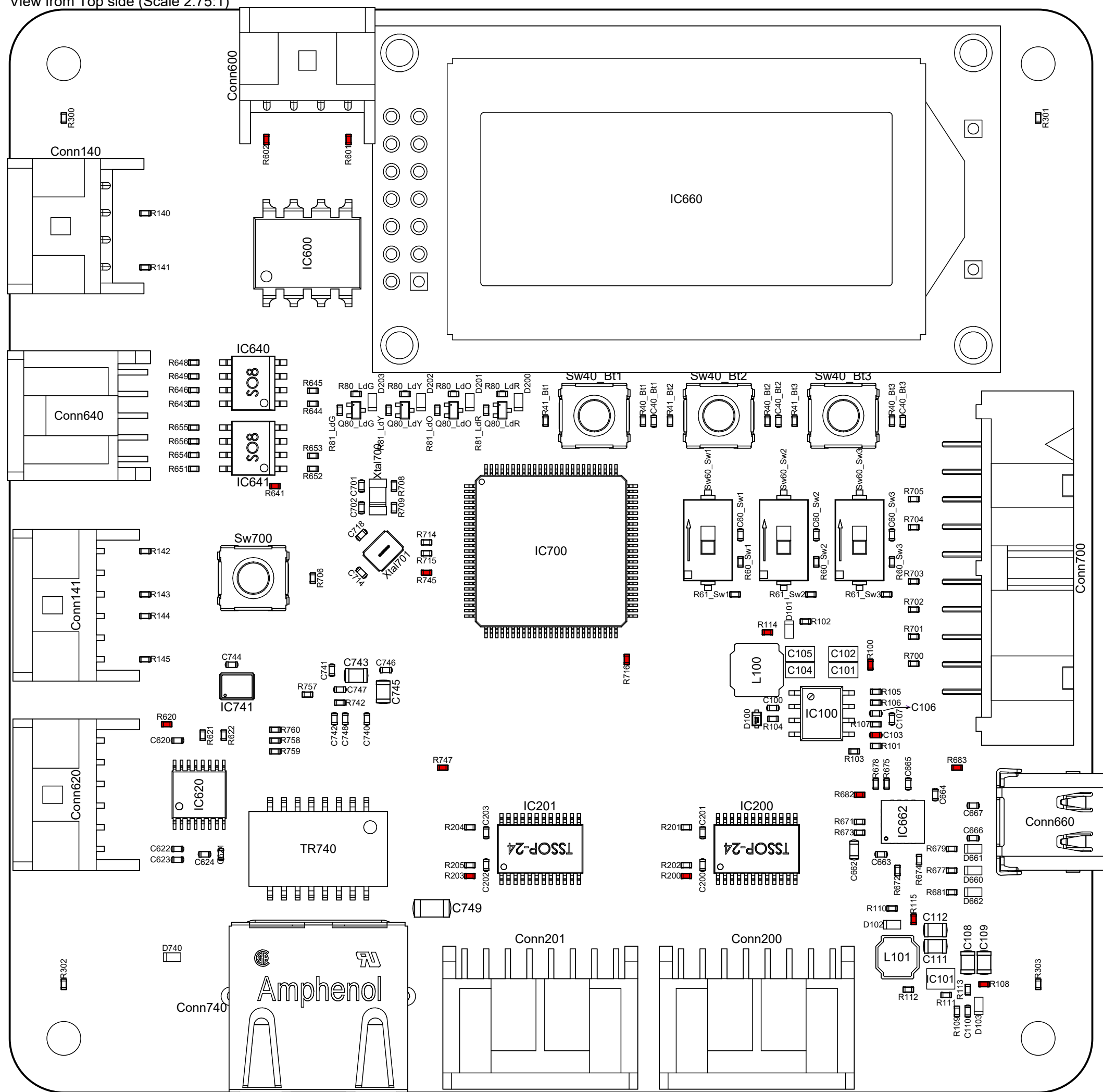
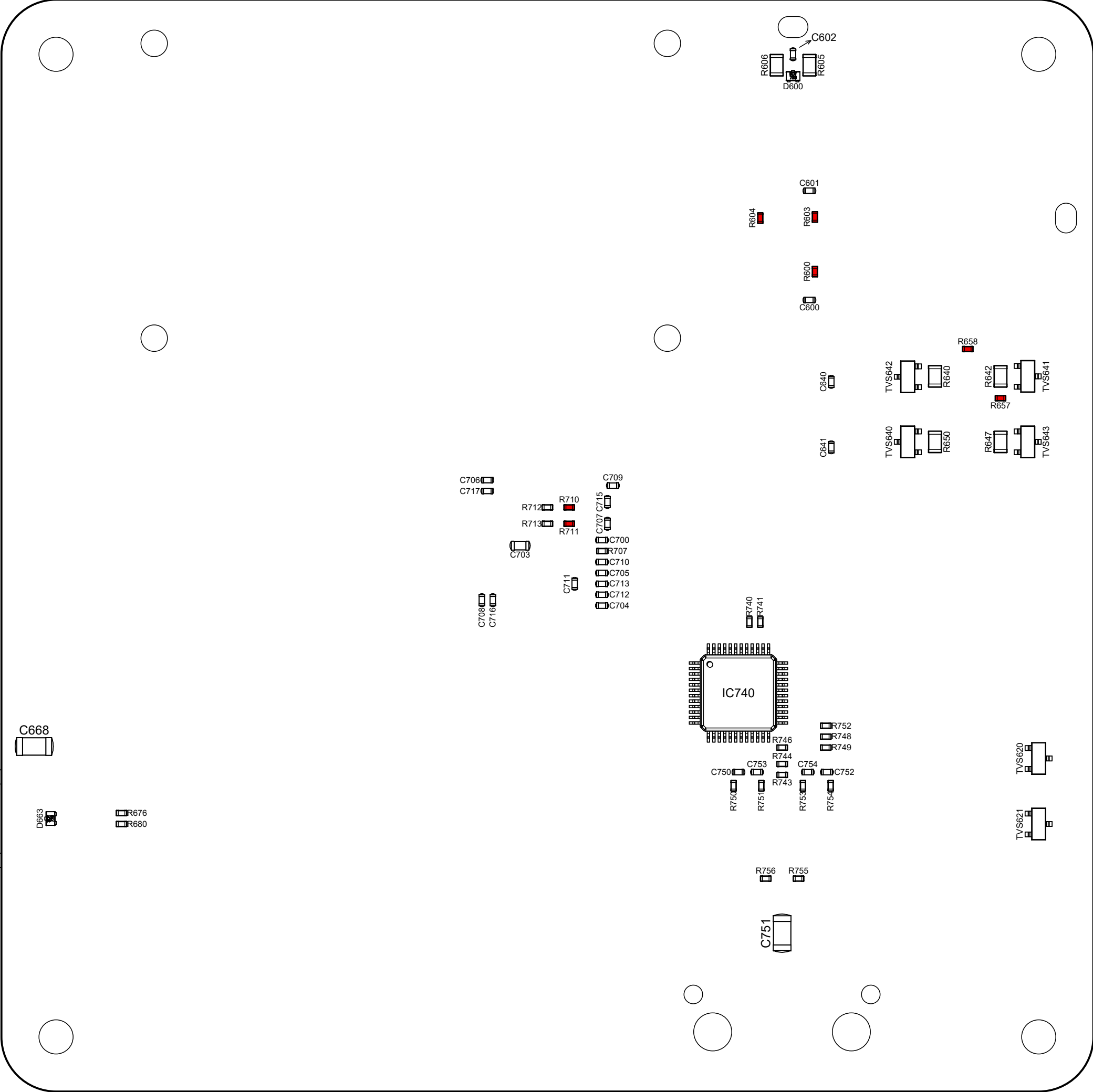


View from Top side (Scale 2.75:1)

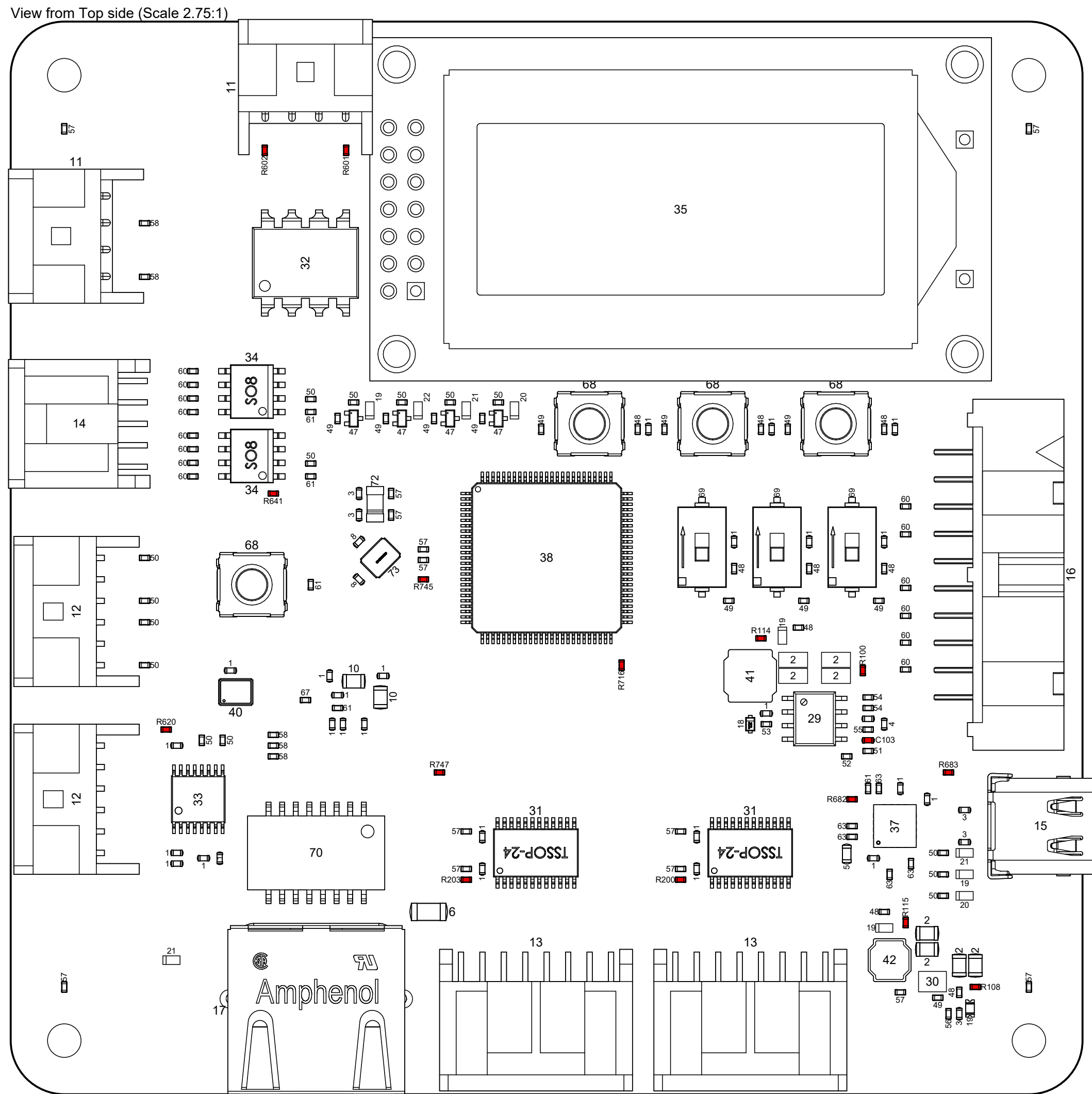


# BOTTOM SIDE ASSEMBLY VIEW (Designators)

View from Bottom side (Scale 2.75:1)

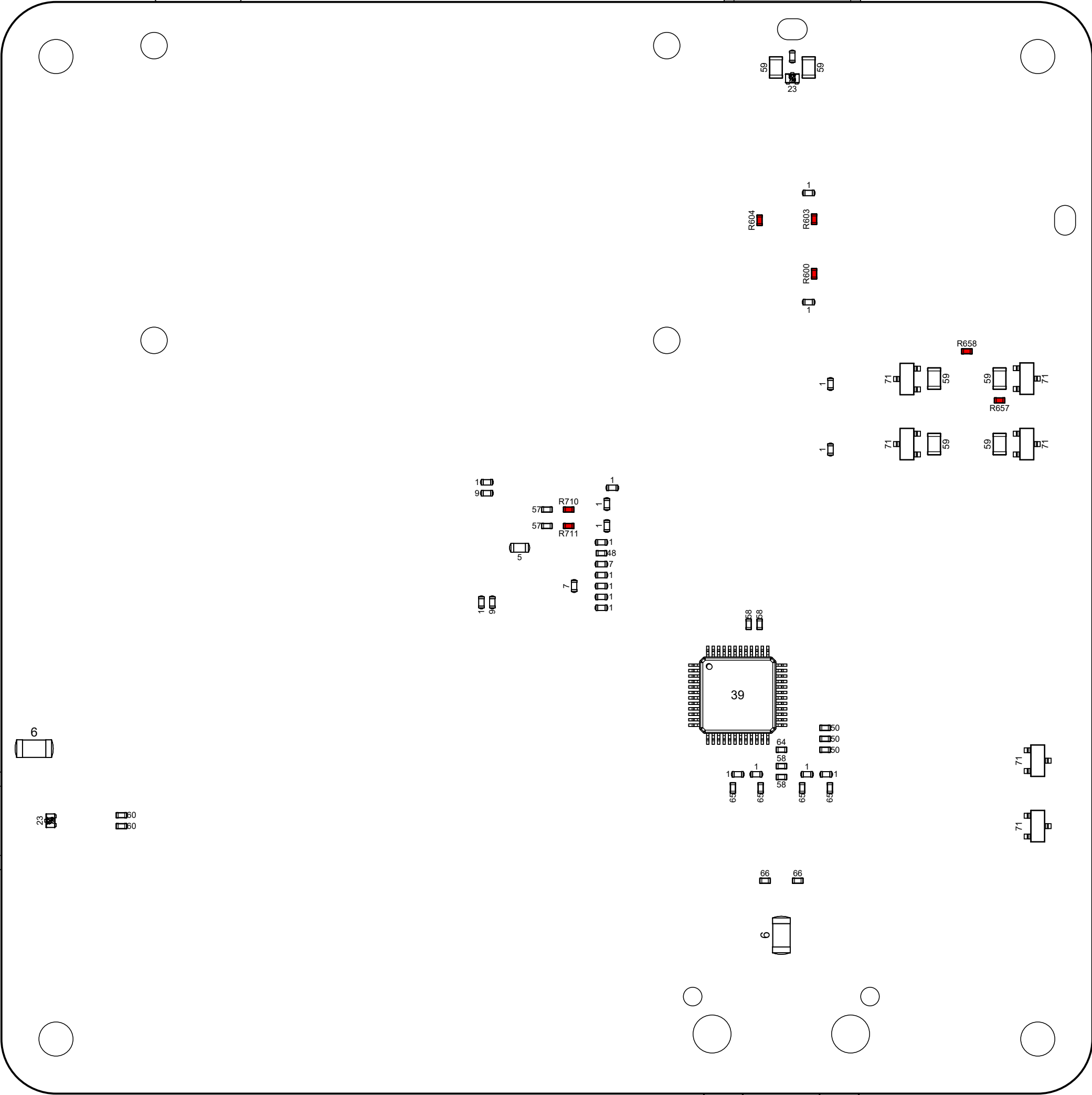


# TOP SIDE ASSEMBLY VIEW (BOM List Row No.)



**BOTTOM SIDE  
ASSEMBLY VIEW  
(BOM List Row No.)**

View from Bottom side (Scale 2.75:1)



Bill Of Materials

Line #	Designator	Quantity	Description	Manufacturer	Manufacturer Part Number
1	C40_Bt1, C40_Bt2, C40_Bt3, C60_Sw1, C60_Sw2, C60_Sw3, C100, C200, C201, C202, C203, C600, C601, C602, C620, C621, C622, C623, C624, C640, C641, C660, C661, C663, C664, C665, C700, C704, C705, C706, C707, C708, C709, C712, C713, C715, C740, C741, C742, C744, C746, C747, C748, C750, C752, C753, C754	47	Cap, Cer, 100nF, 6.3V, M1005	Kyocera	04026D104KAT4A
2	C101, C102, C104, C105, C108, C109, C111, C112	8	Cap, Cer, 22uF, 6.3V, M2012	Murata	GRM21BR60J226ME39K
3	C106, C110, C666, C667, C701, C702	6	Cap, Cer, 22pF, 25V, M1005	Walsin	0402N220J250CT
4	C107	1	Cap, Cer, 2.7nF, 50V, M1005	Walsin	CC0402KRX7R9BB272
5	C662, C703	2	Cap, Cer, 4.7uF, 6.3V, M1608	Samsung	CL10A475KQ8NNNC
6	C668, C749, C751	3	Cap, Cer, 1nF, 2kV, M3216	Yageo	CC1206MKX7RDBB102
7	C710, C711	2	Cap, Cer, 1uF, 6.3V, M1005	Samsung	CL05A105MQ5NNNC
8	C714, C718	2	Cap, Cer, 16pF, 50V, M1005	Walsin	0402N160J500CT
9	C716, C717	2	Cap, Cer, 2.2uF, 6.3V, M1005	Samsung	CL05A225MQ5NNNC
10	C743, C745	2	Cap, Cer, 10uF, 6.3V, M2012	Samsung	CL21A106MQFNNE
11	Conn140, Conn600	2	Conn, JST, 4P, TH, XA, Side Entry	JST	S04B-XASK-1(LF)(SN)
12	Conn141, Conn620	2	Conn, JST, 6P, TH, PA, Side Entry	JST	S06B-PASK-2(LF)(SN)
13	Conn200, Conn201	2	Conn, JST, 16P, TH, PAD, Side Entry	JST	S16B-PADSS-1(LF)(SN)
14	Conn640	1	Conn, JST, 10P, TH, PAD, Side Entry	JST	S10B-PADSS-1(LF)(SN)
15	Conn660	1	Conn, USB, TYPE-C	GCT	USB4056-03-A
16	Conn700	1	Conn, Header, 20P, RA, TH, Shrouded	Omron	XG4C-2034
17	Conn740	1	Conn, RJ45, 2 Leds, Shielded, Side Entry	Amphenol	RJHSE5381A1
18	D100	1	Diode, Schottky, 30V, 200mA, SOD-523	Toshiba	CES521,L3F
19	D101, D102, D103, D203, D660	5	Diode, Led, Green-Yellow, 2.2V, 20mA, M1608	Rohm	SML-D12M1WT86
20	D200, D662	2	Diode, Led, Red, 2.2V, 20mA, M1608	Rohm	SML-D12U1WT86
21	D201, D661, D740	3	Diode, Led, Orange, 2.2V, 20mA, M1608	Rohm	SML-D12D1WT86
22	D202	1	Diode, Led, Yellow, 2.2V, 20mA, M1608	Rohm	SML-D12Y1WT86
23	D600, D663	2	Diode, TVS, 5V/6.8V, SOD-723	Toshiba	DF3A6.8LFV,L3F
24	Housing300, Housing305	2	Housing, JST, 4P, XA	JST	XAP-04V-1
25	Housing301, Housing302	2	Housing, JST, 16P, PAD	JST	PADP-16V-1-S
26	Housing303	1	Housing, JST, 10P, PAD	JST	PADP-10V-1-S
27	Housing304	1	Housing, JST, PAP-06V-S	JST	PAP-06V-S
28	Housing306	1	IC, Interface, FTDI, QFN-16	JST	PAP-06V-S
29	IC100	1	IC, Power, Buck, SOP-8	Richtek	RT2862GSP
30	IC101	1	IC, Power, Buck, DFN-8, 2x2	Richtek	AP3441SHE-7B
31	IC200, IC201	2	IC, Buffer, TSSOP-24	Nexperia	74LVC4245APW,118
32	IC600	1	IC, Interface, CAN, DIP-8, Gull Wing	Texas	ISO1050DUBR
33	IC620	1	IC, Interface, RS232, TSSOP-24	Texas	TRS3232IPWR
34	IC640, IC641	2	IC, Interface, RS422, SOIC-8	Texas	SN65HVD30DR
35	IC660	1	Module, Display, Lcd, 2 Lines, I2C	Orient Display	AMC0802BR-B-B6WTDW-I2C
36	IC661	1	IC, Interface, I2C, TSSOP-8	Nxp	NVT2002DP,118
37	IC662	1	IC, Interface, FTDI, QFN-16	FTDI	FT230XQ-R
38	IC700	1	IC, MCU, STM32F417, QFP-100	STM	STM32F417VGT6
39	IC740	1	IC, Interface, Eth Phy, 10/100Mb, DP83848IVV	Texas	DP83848IVV/NOPB
40	IC741	1	IC, Oscillator, 50MHz	ECS	ECS-2333-500-BN-TR

Line #	Designator	Quantity	Description	Manufacturer	Manufacturer Part Number
41	L100	1	Inductor, Power, 4.7uH, 2A, 5x5x2mm	Taiyo Yuden	NRS5020T4R7MMGJ
42	L101	1	Inductor, Power, 2.2uH, 3A, 4x4x1.8mm	Taiyo Yuden	NRS4018T2R2MDGJ
43	Pin300, Pin301, Pin318, Pin319, Pin352, Pin353, Pin356, Pin357	8	Pin, JST, SXA-001T-P0.6	JST	SXA-001T-P0.6
44	Pin302, Pin303, Pin304, Pin305, Pin306, Pin307, Pin308, Pin309, Pin310, Pin311, Pin312, Pin313, Pin314, Pin315, Pin316, Pin317, Pin320, Pin321, Pin322, Pin323, Pin324, Pin325, Pin326, Pin327, Pin328, Pin329, Pin330, Pin331, Pin332, Pin333, Pin334, Pin335, Pin336, Pin337, Pin338, Pin343, Pin344, Pin345, Pin348, Pin349, Pin350, Pin351	42	Pin, JST, SPND-001T-C0.5	JST	SPND-001T-C0.5
45	Pin339, Pin340, Pin341, Pin342, Pin346, Pin347	6	Pin, JST, SPHD-001T-P0.5	JST	SPHD-001T-P0.5
46	Pin354, Pin355, Pin358, Pin359, Pin360, Pin361	6	IC, Interface, FTDI, QFN-16	JST	SPHD-001T-P0.5
47	Q80_LdG, Q80_LdO, Q80_LdR, Q80_LdY	4	MOSFET, N-CH, 20V, 100mA, SOT-416FL	Rohm	RE1C001UNTCL
48	R40_Bt1, R40_Bt2, R40_Bt3, R60_Sw1, R60_Sw2, R60_Sw3, R102, R110, R113, R707	10	Res, 1K, 1%, M1005	Yageo	RC0402FR-071KP
49	R41_Bt1, R41_Bt2, R41_Bt3, R61_Sw1, R61_Sw2, R61_Sw3, R81_LdG, R81_LdO, R81_LdR, R81_LdY, R111	11	Res, 100K, 1%, M1005	Yageo	RC0402FR-07100KP
50	R80_LdG, R80_LdO, R80_LdR, R80_LdY, R142, R143, R144, R145, R621, R622, R645, R653, R660, R661, R677, R679, R681, R748, R749, R752	20	Res, 330R, 1%, M1005	Yageo	RC0402FR-07330RL
51	R101	1	Res, 75K, 1%, M1005	Yageo	RC0402FR-0775KL
52	R103	1	Res, 24K, 1%, M1005	Yageo	RC0402FR-0724KL
53	R104	1	Res, 150K, 1%, M1005	Yageo	RC0402FR-07150KL
54	R105, R106	2	Res, 56K, 1%, M1005	Yageo	RC0402FR-0756KL
55	R107	1	Res, 16K, 1%, M1005	Yageo	RC0402FR-0716KL
56	R109	1	Res, 453K, 1%, M1005	Yageo	RC0402FR-07453KL
57	R112, R201, R202, R204, R205, R300, R301, R302, R303, R708, R709, R712, R713, R714, R715	15	Res, 0R, M1005	Yageo	RC0402FR-070RL
58	R140, R141, R740, R741, R743, R744, R758, R759, R760	9	Res, 2.2K, 1%, M1005	Yageo	RC0402FR-072K2L
59	R605, R606, R640, R642, R647, R650	6	Res, 60.4R, 1%, M1005	Yageo	RC0805FR-0760R4L
60	R643, R646, R648, R649, R651, R654, R655, R656, R676, R680, R700, R701, R702, R703, R704, R705	16	Res, 22R, 1%, M1005	Yageo	RC0402FR-0722RL
61	R644, R652, R662, R664, R665, R666, R667, R668, R678, R706, R742	11	Res, 10K, 1%, M1005	Yageo	RC0402FR-0710KP
62	R663	1	Res, 200K, 1%, M1005	Yageo	RC0402FR-07200KL
63	R671, R672, R673, R674, R675	5	Res, 4.7K, 1%, M1005	Yageo	RC0402FR-074K7L
64	R746	1	Res, 4.87K, 1%, M1005	Yageo	RC0402FR-074K87L
65	R750, R751, R753, R754	4	Res, 51R, 1%, M1005	Yageo	RC0402FR-0751RL
66	R755, R756	2	Res, 75R, 1%, M1005	Yageo	RC0402FR-0775RL
67	R757	1	Res, 1.5K, 1%, M1005	Yageo	RC0402FR-071K5L
68	Sw40_Bt1, Sw40_Bt2, Sw40_Bt3, Sw700	4	Switch, Tactile, SPST, SMD	Panasonic	EVQ-Q2K03W
69	Sw60_Sw1, Sw60_Sw2, Sw60_Sw3	3	Switch, Slide, SPST, SMD	C&K	SDA01H1SBD
70	TR740	1	Transformer, Eth, 100Mbps, SM13126PEL	Bourns	SM13126PEL
71	TVS620, TVS621, TVS640, TVS641, TVS642, TVS643	6	TVS, 2P, Bidirectional, 7V/12V, SOT-23-3	Bourns	CDSOT23-SM712
72	Xtal700	1	XTAL, 32.768kHz, 12.5pF	NDK	NX3215SA-32.768K-STD-MUS-2

# Realistic View

