

Num	PN	Description	Qty	BOM.Ref Des
10	5-AC000755F	QCA1023 [Qualcomm]	1	U1
20	5-CC000538	MLCC 0.01uF/10V +-10% X7R 0201 SMD	1	C49
30	5-CC000430	MLCC 10pF/50V +-5% NPO 0201 SMD	1	C19
40	5-CC000600	MLCC 10uF/6.3V +-20% X5R 0402 SMD	1	C22
50	5-CC000601	MLCC 1uF/6.3V +-20% X5R 0201 SMD	9	C23,C30,C34,C42,C44,C47,C48,C55,C58
60	5-CC001311	MLCC 47uF/4V +-20% X5R 0603 SMD	1	C26
70	5-CC000982	MLCC 4.7uF/10V +-20% X5R 0402 SMD	1	C59
80	5-CC001080	MLCC 4.7pF/50V +-0.25p NP0 0201 SMD	1	C12
90	5-CC000213	MLCC 0.1uF/6.3V +-10% X5R 0201 SMD	13	C25,C28,C32,C33,C35,C37,C39,C43,C50,C52,C53,C56,C60
100	5-CS002225M00	Mlcc 2.2uF/6.3V +-20% X5R 0402 SMD	2	C40,C61
110	5-FRB00067	Diplexer 2.4G/5G 1608 SMD	1	FL2
120	5-LL500126	Inductor 1.5 uH 1200mA +-20% 2.0x1.6mm SMD	1	L3
130	5-RR000368	Chip R 0 $\Omega$ +-5% 1/20W 0201 SMD	8	E3,R10,R15,R21,R23,R24,R25,
140	5-RR001162	Chip R 1.5 $\Omega$ +-5% 0201 SMD	1	R26
145	5-RS001103J03	Chip R 10 K $\Omega$ +-5% 1/20 W 0201 SMD	2	R11,R12
150	5-YS000328	XTAL 48MHz +-10ppm 8.8pF	1	Y1
160	5-MMB00525	Shielding cover 10.9*10.9*1.27mm T=0.15mm	1	SH1
170	5-PP005641	PCB 2273SM Ver:04 4L 12X12mm *0.4mm	1	PCB
180	5-LL000098	Chip L 5.6 nH 350mA +-3% 0201 SMD	1	C63
190	5-LL000099	Chip L 1.1 nH 750mA +-0.1nH 0201 SMD	1	L4

Item	Number	Description	Reference	Quantity	Part
1	104-00124-00	LED, GREEN, 2.6-3.6V, 600mcd, 520-530nm, SMD 0603	D1, D3, D5, D7, D9, D11, D13, D15, D17, D19, D21, D23, D25, D27, D29, D31, D33, D35, D37, D39, D41, D43, D45, D47, D49, D51, D53, D55, D57, D59, D61, D63, D65, D67, D69, D71, D74, D76	38	LED_G
2	104-00041-00	LED, RED, 1.8-2.2V, 80-220mcd, 615-630nm, SMD 0603	D2, D4, D6, D8, D10, D12, D14, D16, D18, D20, D22, D24, D26, D28, D30, D32, D34, D36, D38, D40, D42, D44, D46, D48, D50, D52, D54, D56, D58, D60, D62, D64, D66, D68, D70, D72, D73, D75	38	LED_R
3	107-00502-00	CONN, FEMALE HEADER, 2*9PIN, 2.00mm PITCH, Hplastic=2.2mm, 180degree, THR	JP1, JP2	2	HEADER2X9
4	107-00159-00	CONN, FPC, 30-PIN, 1.0mm PITCH, 90 degree, HORIZONTAL, BOTTOM CONTACT WITH LOCK, THR	JP3	1	1.0S-12X-30PW
5	112-00026-00	MIC, OMNIDIRECTIONAL, -40+/-2dB, 4*1.2mm (D*H), SMT	J1	1	MIC-GD-4013
6	108-00026-00	SWITCH, HOOK SWITCH, 6-PIN, 1.5mm THR	J3	1	HKSW
7	114-00057-00	WIRE, PARALLEL (RED/BLACK COLOR), 2PIN, L=70mm, THR	J2	1	
8	110-01409-01	PCB, CEM-1, 193*209.75*1.6mm (194.7*209.3mm, 1PANEL), 1LAYER, VER V1.0B	PCB	1	PCB

Item Number	Description	Reference	Quantity	Part
1	RES, 10R, 1/8W, +/-1%, SMD 0805	R903	1	10R
2	RES, 20R, 1/10W, +/-1%, SMD 0603	R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R135	13	20R
3	RES, 47K, 1/10W, +/-1%, SMD 0603	R904, R905	2	47K
4	RES, 91K, 1/10W, +/-1%, SMD 0603	R154	1	91K
5	RES, 220R, 1/16W, +/-1%, SMD 0402	R605	1	220R
6	RES, 10.5K, 1/10W, +/-1%, SMD 0603	R148	1	10.5K
7	RES, 10K, 1/16W, +/-1%, SMD 0402	R155, R404, R422, R433, R649, R802, R803, R826, R827, R915	10	10K
8	RES, 0R, 1/16W, +/-5%, SMD 0402	R103, R104, R108, R111, R114, R125, R126, R156, R157, R402, R403, R414, R416, R508, R510, R520, R525, R526	18	0R
9	RES, 1K, 1/16W, +/-1%, SMD 0402	R303, R305, R668, R669, R670, R671, R672, R914, R923	9	1K
10	RES, 33R, 1/16W, +/-1%, SMD 0402	R316, R412, R438, R601, R604, R618, R627, R655, R656, R657, R812, R817, R819, R828, R829, R830, R831, R832	18	33R
11	RES, 4.7K, 1/16W, +/-1%, SMD 0402	R10, R11, R12, R118, R147, R461, R530, R539, R658, R659, R660, R661, R662, R663, R666	15	4.7K
12	RES, 2.49K, 1/16W, +/-1%, SMD 0402	R602	1	2.49K
13	RES, 75R, 1/16W, +/-1%, SMD 0402	R629, R630, R631, R632, R641, R642, R643, R644, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R731, R734, R742	38	75R
14	RES, 300R, 1/16W, +/-1%, SMD 0402	R910	1	300R
15	RES, 34.8R, 1/2W, +/-1%, SMD 1210	R939	1	34.8R
16	RES, 100R, 1/16W, +/-1%, SMD 0402	R160, R423, R464, R505, R506, R511, R513, R516, R517, R570, R571, R911	12	100R
17	RES, 100K, 1/16W, +/-1%, SMD 0402	R102, R106, R110, R120, R151, R901, R913	7	100K
18	RES, 200K, 1/16W, +/-1%, SMD 0402	R100	1	200K
19	RES, 240R, 1/16W, +/-1%, SMD 0402	R304	1	240R
20	RES, 9.76K, 1/16W, +/-1%, SMD 0402	R921	1	9.76K
21	RES, 8.25K, 1/16W, +/-1%, SMD 0402	R138, R153	2	8.25K
22	RES, 49.9R, 1/16W, +/-1%, SMD 0402	R301, R302	2	49.9R
23	RES, 150R, 1/16W, +/-1%, SMD 0402	R665	1	150R
24	RES, 20K, 1/16W, +/-1%, SMD 0402	R117, R535, R538, R919	4	20K
25	RES, 24.9K, 1/16W, +/-1%, SMD 0402	R101, R558, R559, R909	4	24.9K
26	RES, 37.4K, 1/16W, +/-1%, SMD 0402	R112, R123	2	37.4K
27	RES, 4.42K, 1/16W, +/-1%, SMD 0402	R920	1	4.42K
28	RES, 40.2K, 1/16W, +/-1%, SMD 0402	R152, R540, R541, R916, R918	5	40.2K
29	RES, 402R, 1/16W, +/-1%, SMD 0402	R405, R503, R507, R512, R515, R519, R566, R569, R572, R606	10	402R
30	RES, 47K, 1/16W, +/-1%, SMD 0402	R805, R806, R807, R808, R809	5	47K
31	RES, 6.49K, 1/16W, +/-1%, SMD 0402	R430	1	6.49K
32	RES, 680R, 1/16W, +/-1%, SMD 0402	R917	1	680R
33	RES, 12.1K, 1/16W, +/-1%, SMD 0402	R105	1	12.1K
34	RES, 12.1K, 1/16W, +/-1%, SMD 0402	R115	1	12.1K
35	RES, 14.7K, 1/16W, +/-1%, SMD 0402	R150, R902	2	14.7K
36	RES, 80.6K, 1/16W, +/-1%, SMD 0402	R922	1	80.6K
37	RES, 178K, 1/16W, +/-1%, SMD 0402	R908, R912	2	178K
38	RES, 249K, 1/16W, +/-1%, SMD 0402	R900	1	249K
39	RES, 10R, 1/10W, +/-1%, SMD 0402	R732, R733	2	10R
40	RES, 0R, 1/20W, +/-1%, SMD 0201	R527, R528	2	0R
41	RES, 120K, 1/16W, +/-1%, SMD 0402	R109	1	120K
42	RES, 2.2K, 1/16W, +/-1%, SMD 0402	R408, R501, R504, R514, R518, R564, R565, R567, R568, R573, R609, R820	12	2.2K
43	RES, 24K, 1/16W, +/-1%, SMD 0402	R159	1	24K
44	RES, 43K, 1/16W, +/-1%, SMD 0402	R127	1	43K
45	RES, 169K, 1/16W, +/-1%, SMD 0402	R158	1	169K
46	CAP, 33pF, 50V, +/-5%, COG, SMD 0402	C671, C672, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728	29	33pF/50V
47	CAP, 10uF, 16V, +/-10%, X5R, SMD 1206	C103, C116, C131, C912	4	10uF/16V
48	CAP, 22pF, 50V, +/-5%, COG, SMD 0402	C401, C402, C506, C512, C588, C811	6	22pF/50V
49	CAP, 4.7nF, 100V, +/-10%, X7R, SMD 0805	C906	1	4.7nF/100V
50	CAP, 47uF, 63V, +/-20%, AL, LOW ESR, THR 8*11.5mm	C904	1	WL47uF/63V
51	CAP, 1000pF, 2KV, +/-10%, X7R, SMD 1206	C612, C645, C917, C918	4	1000pF/2KV
52	CAP, 1000pF, 50V, +/-10%, X7R, SMD 0402	C159, C602, C603, C605, C616, C618, C627, C631, C669, C737, C903	11	1000pF/50V
53	CAP, 47pF, 50V, +/-5%, COG, SMD 0402	C105, C119, C135, C166	4	47pF/50V
54	CAP, 330pF, 200V, +/-5%, NPO, SMD 0603	C919	1	330pF/200V
55	CAP, 220pF, 50V, +/-5%, COG, SMD 0402	C304, C322, C415, C422, C428, C430, C432, C434, C435, C436, C437, C438, C439, C448, C450, C452, C455, C457, C459, C460, C461, C504, C508, C516, C534, C538, C539, C543, C544, C550, C551, C581, C582, C592, C593, C730, C734, C805, C916	39	220pF/50V
56	CAP, 10uF, 6.3V, +/-20%, X5R, SMD 0603	C206, C306, C323, C503, C510, C532, C591, C615, C803, C806	10	10uF/6.3V
57	CAP, 1uF, 6.3V, +/-10%, X5R, SMD 0402	C302, C333, C505, C507, C511, C522, C527, C533, C535, C536, C560, C561, C571, C572, C580, C583, C589, C590, C617, C619	20	1uF/6.3V
58	CAP, 10pF, 50V, +/-5%, COG, SMD 0402	C182	1	10pF/50V
59	CAP, 10nF, 50V, +/-10%, X7R, SMD 0402	C102, C117, C123, C130, C167, C168, C576	7	10nF/50V
60	CAP, 4.7uF, 6.3V, +/-20%, X5R, SMD 0402	C12, C205, C209, C501, C513, C514, C518, C546, C552, C613, C614	11	4.7uF/6.3V
61	CAP, 220uF, 16V, +/-20%, AL, LOW ESR, 2000Hr, THR 8*7mm	C921	1	220uF/16V

62	102-00185-00	CAP, 220uF, 10V, +/-20%, AL, LOW ESR, 2000Hr, THR 6.3*7mm	C107, C466	2	220uF/10V
63	102-00191-00	CAP, 18pF, 50V, +/-5%, COG, SMD 0402	C586	1	18pF/50V
64	102-00195-00	CAP, 22uF, 6.3V, +80%, -20%, X5R, SMD 0603	C108, C109, C120, C121, C137, C138, C162, C163, C201, C555, C577, C729, C808	13	22uF/6.3V
65	102-00197-00	CAP, 120pF, 50V, +/-5%, COG, SMD 0402	C301, C911	2	120pF/50V
66	102-00198-00	CAP, 5pF, 50V, +/-0.25pF, COG, SMD 0402	C673, C802	2	5pF/50V
67	102-00201-00	CAP, 22uF, 16V, +/-20%, X5R, SMD 0805	C129, C169, C467, C548, C732, C908	6	22uF/16V
68	102-00224-00	CAP, 470nF, 10V, +/-10%, X5R, SMD 0402	C915	1	470nF/10V
69	102-00230-00	CAP, 10uF, 25V, +/-10%, X5R, SMD 1206	C112, C735	2	10uF/25V
70	102-00271-00	CAP, 2.2uF, 25V, +/-10%, X5R, SMD 0603	C140 C10, C13, C104, C106, C118, C122, C127, C132, C134, C141, C160, C161, C164, C202, C203, C204, C207, C208, C303, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C324, C325, C326, C327, C328, C329, C330, C331, C332, C337, C338, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C414, C465, C468, C469, C502, C509, C517, C537, C540, C545, C554, C578, C579, C587, C601, C629, C630, C632, C633, C634, C635, C636, C637, C639, C640, C641, C642, C643, C644, C646, C647, C648, C649, C650, C651, C674, C701, C733, C804, C807, C907	1	2.2uF/25V
71	102-00272-00	CAP, 100nF, 16V, +/-10%, X7R, SMD 0402	C139 C101, C124, C531, C736 C900, C905	96	100nF/16V
72	102-00273-00	CAP, 1uF, 16V, +/-10%, X5R, SMD 0603	C128	1	1uF/16V
73	102-00275-00	CAP, 100nF, 25V, +/-10%, X5R, SMD 0402	C11, C14, C113, C541, C731, C801, C909, C913	4	100nF/25V
74	102-00313-00	CAP, 100nF, 100V, +/-10%, X7R, SMD 0805	C606, C607, C608, C609	2	100nF/100V
75	102-00320-00	CAP, 220uF, 25V, +/-20%, AL, LOW ESR, 2000Hr, THR 8*11.5mm	B601, B602, B603	1	220uF/25V
76	102-00322-00	CAP, 1uF, 16V, +/-10%, X5R, SMD 0402	B10, B401, B701, B801	8	1uF/16V
77	102-00323-00	CAP, 22nF, 50V, +/-10%, X7R, SMD 0402	L701	4	22nF/50V
78	103-00011-00	BEAD, 600ohm@100M, 300mA, 0.6ohm, SMD 0402	L103, L104, L108	3	BLM15AG601SN1D
79	103-00020-00	BEAD, 220ohm@100M, 2000mA, 0.05ohm, SMD 0805	L600	4	BLM21PG221SN1D
80	103-00024-00	IND, 10uH, Isat2.0A Irms1.04A, +/-10%, 0.2ohm, SMD 4.5*4*3.2mm	L101	1	CD43-100K
81	103-00101-00	IND, 2.2uH, Isat2.9A Irms2.9A, +/-20%, 0.042ohm, SMD 5.0*5.0*2.0mm	L102	3	2.2uH, 103-00101
82	103-00143-00	IND, 2.2uH, Isat1.70A Irms1.45A, +/-20%, 0.170ohm, SMD 2.0*1.6*1.0mm	L401	1	VLS201610HBX-2R2M-1
83	103-00161-00	IND, 4.7uH, Isat2.5A Irms2.2A, +/-20%, 0.057ohm, SMD 5*5*2mm	D903	1	4.7uH, 103-00161
84	103-00182-00	IND, 1.5uH, Isat4.2A Irms3.5A, +/-20%, 0.026ohm, SMD 5.0*5.0*2.0mm	D907	1	1.5uH, 103-00182
85	103-00187-00	BEAD, CMCC, 90ohm@100M, 500mA, 0.30ohm, CUT-OFF	D701	1	BWCU00201212900Y03
86	104-00010-00	FREQUENCY8.5G, 4PIN, SMD 0805	D900, D906	1	ES1D
87	104-00012-00	DIODE, If=1A, Vr=200V, SMD SMA	U901	1	SMAJ58A
88	104-00014-00	TVS, If=40A, Vrwm=58V, Ppk=400W, SMD SMA	D401	1	SS14
89	104-00014-00	DIODE, If=1A, Vr=40V, SCHOTTKY RECTIFIER, SMD SMA	D904, D909	1	MB6S
90	104-00029-00	DIODE, If=0.8A, Vr=600V, BRIDGE RECTIFIER, SMD MBS-4	U901	2	PS2801-1
91	104-00043-00	TRAN, NPN PHOTOCOUPLER, ONE CHANNEL, Vceo=80V, If=50mA, SMD SOP-4	D401	1	STA2UL05T4
92	104-00059-00	TVS, ESD, EFT, 2-CH, Vmax=5V, Vbr=6V, Ppk=500W, CJ=1.0pFTYP, V esd +/-8KV, USB2.0, SOT143-4	D101, D102, D902	1	WE05MF
93	104-00099-00	DIODE, If=2A, Vr=60V, SCHOTTKY RECTIFIER, SMD SMB	D502	3	SR26
94	104-00163-00	TVS, 4 LINE ESD/EFT PROTECTION, Vrwm=5.0V, Vbr=6.0V, Ipp=2A(8/20us), Cj=6.5pF, SMD SOT-553	D904, D909	1	1N4148W
95	104-00240-00	DIODE, If=300mA, Vr=75V, SMD SOD-123	D638	2	STD02H050B
96	104-00253-00	TVS, ESD, EFT, Single, Vmax=5V, Vbr=6V, Ipp=19A, CJ=40pFmax, Vesd	D908	1	TL431
97	105-00048-00	IC, ADJUSTABLE SHUNT REGULATOR, Vref=2.5V, +/-1%, SMD SOT-23	U401	1	SY6280AAC
98	105-00315-00	IC, CURRENT-LIMITED BY EXTERNAL RES, POWER-DISTRIBUTION SWITCHES(NO BODY DIODE), SMD SOT23	U501, U502, U503	1	CP2296
99	105-00331-00	IC, AUDIO POWER AMPLIFIER, 3.1W@5V, 30Hm, SMD MSOP-8	U701	3	AP3031KTR-G1
100	105-00409-00	IC, WHITE LED DRIVER, INPUT:2.7V-16V, REF:200mV, OUTPUT:2.7-17V, 1.4A, SMD SOT-23-6	U900	1	MP8004GQW
100	105-00438-00	IC, IEEE 802.3af POE COMPLIANT POWERD DEVICE(PD), STANDARD, INPUT:0-100V, SMD QFN-20		1	

101	105-00719-00	IC, DC-DC, INPUT 4.2V-24V, OUTPUT 0.8V-13V, 2A OUTPUT CURRENT, 650KHz, SMD SOT583	U101	1	MP2331GTL-Z
102	105-00729-00	IC, 2+1 PORT 10/100/1000M ETHERNET SWITCH WITH MII/RMII/RGMII/INTERFACE, QFN-76	U600	1	RTL8363NB-VB-CG
103	105-00731-00	IC, WiFi&BT MODULE, 802.11a/b/g/n/ac 2.4G/5G, UP TO 433.3Mbps, BT4.2+EDR, SDIO UART	U801	1	AW-CM273SM
104	105-00870-00	PCM, 12*12, LGA-47			
104	105-00870-00	IC, LDO, Vout=0.8-4.6V ADJ, Iout=500mA, SMD SOT23-5	U105	1	ETA5050
105	105-00927-00	IC, DC-DC, INPUT 4.5V-18V, OUTPUT 0.3V-19V, 2A OUTPUT CURRENT, 700KHz, SMD SOT563, ETA1652	U102, U103, U104, U108	4	ETA1652
106	105-01091-00	IC, QUAD-CORE ARM CORTEX-A35 CPU, SUPPORT DDR2/3/3L/LPDDR2, CODEC, UP TO 1.3GHz, RK3308B-S, SMD TFBGA355	U201	1	RK3308B-S
107	105-01113-00	IC, 400KHz I2C INPUT INTERFACE, 6X12 MATRIX LED DRIVER, 2.4V-5.5V, AW20072QNR, QFN4X4-32L 0	U10	1	AW20072
108	105-50032-00	VIRTUAL PN, IC, MEMORY, SPI NAND FLASH 2Gbit, 104MHz, 2.7-3.6V, SOP8 208mil	U303	1	GD5F1GQ4UBYIG
109	105-50058-00	VIRTUAL PN, IC, MEMORY, DDR3-1600 (800MHz), 11-11-11, 2Gbit (128M*16bit), 1.5V, 0/95, FBGA-96	U301	1	H5TQ2G63FFR-PBC
110	106-00041-00	CRYSTAL, 24.0000MHz, 10PPM, 15pF, SMD 3225	Y401	1	24MHz
111	106-00059-00	CRYSTAL, 25.0000MHz, 10PPM, 18pF, 50ohm, SMD3225	Y601	1	25MHz
112	107-00034-00	CONN, RJ9, 4P4C, SINGLE, 180degree, NO SHIELDING, THR	J501, J502	2	YH-SP-22
113	107-00037-00	CONN, VERTICAL POWER JACK, DIT=2.0mm, THR	J100	1	PJ-002BH
114	107-00078-00	CONN, FPC, 40PIN, 0.5mm PITCH, HORIZONTAL, BOTTOM CONTACT, REEL PACKAGE, SMD	J701	1	4.3 TFT LCD
115	107-00162-00	CONN, FPC, 30-PIN, 1.0mm PITCH, HORIZONTAL, BOTTOM CONTACT, SMD	J406	1	1.0D-30PBX
116	107-00264-00	CONN, RJ45, 8P8C, DUAL, 180degree, NO SHIELDING, THR	J600	1	RJ45-8
117	107-00417-00	CONN, RF COAXIAL CONNECTORS, 50ohm, L3*W3*H1.25mm, 2.0(D)*1.25(H), SHELL Au PLATED, SMT	ANT1	1	ANT_CONN
118	107-00465-00	CONN, FPC, 10-PIN, 0.5mm PITCH, HORIZONTAL, TOP AND BOTTOM CONTACT WITH LOCK, SMD	J401	1	HEADER 10/SM
119	107-00494-00	CONN, USB JACK, TYPE-A, SINGLE LAYER, 180degree, BLACK, FEMALE, THR	J402	1	USB-A
120	107-00501-00	CONN, PIN HEADER, 2*9PIN, 2.00mm PITCH, H=2.0mm, 180degree, THR	J404, J405	2	HEADER2X9
121	109-00019-00	TRANSF, DUAL PORT ETHERNET, PHY-CMC, POE=350mA, 100/1000BASE-T, TMP -20/70, SMD 48-PIN	T600	1	G4811CG
122	109-00043-00	TRANSF, Vout=14V/15W, RATIO=1:0.333:0.208+/-3%, 17.75*14.2mm, TMP -40/125, SMD 10-PIN	T900	1	EP-603SG
123	110-01571-00	PCB, FR4, 107.25*110.7*1.6mm (216.5*223.4mm , 4PANEL), 4LAYER, VER1.0A	Main Board	1	PCB