

Sub-item material code	Material name	Specifications	Material selection level	location
19.0401.0198-00	charger	CHARGER 1,DC in: 13.5-16Vdc/46A,27-32V/23A, out: 56V/10A,28V/10A,		
19.0708.0197-00	structural parts	CHARGER 1, Plastic left cover (input) + radium carving, PC+ABS XD-6615 (X), UL94-V0, gray black PANTONE 431C, tan fine lines, ROHS, L110×W60×H18.5mm, radium carving: 17.0306.0542-00, 2ALP002A-102A0		
14.0104.0083-00	Plastic cover	CHARGER 1, PC+ABS Xingsheng DI XD-6615 (X), UL94-V0, gray black PANTONE 431C, tan fine lines, ROHS, L110×W60×H18.5mm, 2ALP002A-		
19.0708.0198-00	structural parts	CHARGER 1, Plastic right cover (output) + radium carving, PC+ABS XD-6615 (X), UL94-V0, gray black PANTONE 431C, tan fine lines, ROHS, L110×W60×H26.7mm, radium carving: 17.0306.0543-00, 2ALP002A-101A0		
14.0105.0040-00	Plastic cover	CHARGER 1, PC+ABS Xingsheng DI XD-6615 (X), UL94-V0, gray black PANTONE 431C, tan fine lines, ROHS, L110×W60×H18.5mm, 2ALP002A-		
14.0201.0112-00	Aluminum cylinder with middle frame	D60L, AL6063, gray black PANTONE 431C, nano spray sand 120#, ROHS, L111×W140×H60mm, silkscreen gray BLUETTI, 17.0302.0481- 00,2 ALP002A-203A0		
14.0502.0106-01	Standard screw	Carbon steel, Grade 4.8, Green color zinc, RoHS, GB9074.8, cross recessed small disc head screw and spring washer assembly (flat washer diameter 8mm),M4×12, salt spray 48H	7	
14.0502.0372-00	Standard screw	Stainless steel, ASME/ANSI-B-18.3, Passivated, ROHS, hexagonal spherical end set screw,M5×12, salt spray 48H		
19.0101.0933-03	PCBA(SMT&DIP)	D60L M1, V4.0 (SMT&DIP) ,		
12.0903.0431-00	Plug-in signal type socket	LianDa, LA251303A0004, wafer, 1*3P/2.5mm/180°,	2	CN1
12.0804.0186-00	Plug-in common mode inductor	A, D60L-BL1, 32uHMIN, 2mΩ, T25*15*10/R5K/1.5*4P/3Ts, -40~125℃, 33*20*32mm	1	LC1
12.0804.0075-00	Plug-in common mode inductor	JL, JL220402A, 0.63mHMIN, T16*9*5/R12K/1.0*1P/11Ts, -40~105℃, 21*11*22mm	7	LC2
12.0303.0010-00	Plug-in varistor	Brightking, 561KD10-C3.5Z2, 350VAC/460VDC, 560V/925V, 2.5KA/180pF, -40~85℃,	2	RV1
12.0803.0229-00	Plug-in differential mode inductor	A, D60L-BL2, 45.2uH ± 12%, 5mΩ, AF270090/1.6*1P/20Ts, -40~130℃, 35*21.5*33mm	1	LD1,LD2
12.0404.0160-00	Plug-in aluminum electrolytic capacitor	EGT108M1VI20CB4*P-R, 1000uF/35V, ±20%, 1Wh/35mΩ/1.9A(100KHz), -40 ~ 105℃,	2	CE1
12.0404.0175-00	Plug-in aluminum electrolytic capacitor	T106M2AE11RR**P-R, 10uF/100V, ±20%, 5000H/0.96Ω/115mA(100KHz), -40 ~ 105℃, 6.3×11×2.5mm	3	CE7
12.0404.0002-00	Plug-in aluminum electrolytic capacitor	ESK477M1J120CB, 470uF/63V, ±20%, 10000H/0.041Ω/1990mA(100KHz), -40 ~ 105℃,	2	CE5
12.0404.0190-00	Plug-in aluminum electrolytic capacitor	ESK687M1J130RR**P-R, 680uF/63V, ±20%, 10000H/28mΩ/2.76A(100KHz), -40 ~ 105℃, 12.5×30×5mm	7	CE4
19.0104.0661-03	PCBA(SMT)	D60L M1, V4.0(SMT),		
14.0202.0263-01	radiator	(Chip radiator) D40, Brass, Tinned, RoHS, T0.5×L6×W4×H8mm, ALP016-207A1		HS1,HS2,HS3,HS4,HS5,HS6,HS7,HS8,HS9,HS10,HS11,HS12,HS13,HS14,HS15,HS16,HS17,HS18,HS19,HS21,HS22,HS23,HS24,HS25,HS26,HS27,HS28
11.0506.0002-00	Chip LED	FG, FG11-0603GC, 2.9V, 300~780mcd@20mA, -40~85℃, 0603	2	LED1,LED2
11.0506.0010-00	Chip LED	HHSR0603TP, 2.0V, 20mA, 0603	4	LED3
11.0201.0150-00	Patch N-MOS tube	NCE, NCEP40T15GU, 40V/150A, 1.09mΩ, 91nC/30ns, -55~150℃, DFN5*6	7	Q1,Q2,Q3,Q4
11.0201.0201-00	Patch N-MOS tube	Yangjie, YJG90G08HJR, 80V/90A, 2.6mΩ, 84nC/62ns, -55~150℃, DFN5*6	7	Q6,Q7,Q10,Q11
11.0601.0038-00	Patch NPN triode	LRC, LMBT2222ALT1G, 40V, 600mA, SOT-23	2	Q5,Q14,Q15,Q22,Q23,Q25,Q26
11.0202.0070-00	Patch P-MOS tube	NCE, NCE60P04Y, 60V/4A, 120mΩ, 25nC/25ns, -55~150℃, SOT-23	7	Q13
11.0602.0031-00	Patch PNP triode	JSCJ, MMBT4403, 40V, 600mA, SOT-23	2	Q24
11.0501.0069-00	Patch TVS tube	JSCJ, SMAJ30CA, 30V/8.3A, 400W, -55 ~ 150℃, SMA	2	TVS2
11.0501.0068-00	Patch TVS tube	JSCJ, SMBJ12CA, 12V, 600W, SMB	2	TVS3
11.0501.0062-00	Patch TVS tube	JJM, SMBJ60CA, 60V, 600W, SMB	7	TVS1
11.0501.0071-00	Patch TVS tube	Yangjie, ESD5V0D3B, 5V/8A, 120W, 30pF, -55~150℃, 25KV, SOD-323	7	TVS4,TVS5
11.0104.0108-00	Chip microcontroller	ARTERY, AT32F421C8T7, ARM, 2.4 ~ 3.6V, -40 ~ 105℃, LQFP-48	7	U9
11.0104.0102-00	Chip microcontroller	Shuo, BC204C BLE5.0 Bluetooth module, 3.3V, -40 ~ 85℃, non-compatible baseplate, braided, 16*10*2.6mm	6	U10
11.0803.0028-00	Patch differential mode inductance	Santuo, SHI1040-220M, 22uH±20%(@100KHz), 4A, 11.2×10.1×4.0mm, 无	7	LD3
11.0503.0084-00	Patch rectifier diode	JSCJ, 1N4148W, 71V/0.3A, VF=0.855V@10mA, SOD-123	2	D3
11.0503.0065-00	Patch rectifier diode	JSCJ, 1N4148WS, 100V/150mA, 1.25V@150mA, -50~150℃, SOD-323	7	D2,D4,D8,D9
11.0503.0069-00	Patch rectifier diode	JSCJ, BAT54S, 30V/200mA, VF=0.32V@1mA, SOT-23	7	D15,D16,D17
11.0503.0038-00	Patch rectifier diode	PW, S07M, 1000V/1A, VF=1.1V@1A, SOD-123	2	D1,D11
11.1101.0008-00	crystal oscillato	BDRC, BD3A4082010, 8MHz, ±10ppm/±30ppm, 20pF/5pF/300Ω, -40~85℃, 3225	7	Y1
11.0304.0008-00	Patch thermistor	Kemit, ECTH160808103J3435FST, 10KΩ±5%, 3435K, NTC, -40~125℃, 0603	7	RT3,RT4,RT6
11.0401.0008-00	chip capacitor	Yageo, X7R, CC0603KRX7R9BB104, 100nF/50V, ±10%, X7R, -55~125℃, 0603	7	C10,C11,C19,C20,C25,C27,C28,C35,C38,C40,C44,C50,C56,C57,C59,C66,C69

11.0401.0142-00	chip capacitor	Yageo, X7R, CC1206KKX7RCBB103, 10nF/1kV, ±10%, X7R, -55~125℃, 1206	7	C9,C67,C77,C83,C86,C87
11.0401.0010-00	chip capacitor	Yageo, X7R, CC0603KRX7R9BB103, 10nF/50V, ±10%, X7R, -55~125℃, 0603	2	C90,C91
11.0401.0144-00	chip capacitor	Samsung, CL31A106KBHNNNE, 10uF/50V, ±10%, X5R, -55~85℃, 1206	2	C24,C31,C32,C33,C41,C42,C43,C58
11.0401.0088-00	chip capacitor	Yageo, X5R, CC0603MRX5R5BB106, 10uF/6.3V, ±20%, X5R, -55~85℃, 0603	3	C37,C39,C61,C62,C63,C64,C68
11.0401.0066-00	chip capacitor	Yageo, X7R, CC1206KKX7RCBB102, 1nF/1kV, ±10%, X7R, -55~125℃, 1206	2	C3,C21,C89
11.0401.0005-00	chip capacitor	Yageo, X7R, CC0603KRX7R9BB102, 1nF/50V, ±10%, X7R, -55~125℃, 0603	2	C8,C12,C13,C14,C15,C16,C17,C18,C22,C30,C70,C71,C72,C74,C75,C
11.0401.0375-00	chip capacitor	Samsung, CL31B105KCHNNNE, 1uF/100V, ±10%, X7R, -55~125℃, 1206	7	C88
11.0401.0137-00	chip capacitor	Yageo, X7R, CC0603KRX7R9BB105, 1uF/50V, ±10%, X7R, -55~125℃, 0603	3	C4,C23,C26,C29,C34,C49,C53,C54,C65,C73
11.0401.0026-00	chip capacitor	Yageo, X7R, CC0603KRX7R9BB221, 220pF/50V, ±10%, X7R, -55~125℃, 0603	3	C45,C47,C60
11.0401.0037-00	chip capacitor	Yageo, NPO, CC0603JRNPO9BN220, 22pF/50V, ±5%, NPO, -55~125℃, 0603	2	C78,C81
11.0401.0401-00	chip capacitor	Fenghua, 1206B472K102NT, 4.7nF/1KV, ±10%, X7R, -55~125℃, 1206	7	C1,C2,C5,C6,C36,C84
11.0402.0067-00	Chip electrolytic capacitor	HEADCON, VZ21V101M0607V1, 100uF/35V,±20%, 3000h/0.34Ω/348mA(100kHz), -55~105℃, φ6.3*7.7mm	2	CE2,CE3
11.0402.0059-00	Chip electrolytic capacitor	HEADCON, VZ21H101M0810V1, 100uF/50V, ±20%, 2000h/0.34Ω/300mA(100kHz/105℃), -55~105℃, φ8*10.2mm	2	CE6
11.0301.0125-00	chip resistor	Yageo, RC0603FR-070RL, 0Ω±1%, 1/10W, -55~155℃, 0603	2	R71
11.0301.0179-00	chip resistor	Yageo, RC0805FR-070RL, 0Ω±1%, 1/8W, -55~155℃, 0805	2	R97
11.0301.0007-00	chip resistor	Yageo, RC0603FR-07100KL, 100K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R76,R77,R78,R80
11.0301.0029-00	chip resistor	Yageo, RC0603FR-07100RL, 100Ω±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	7	R103,R104,R114,R135,R139,R140,R142,R153
11.0301.0096-00	chip resistor	Fenghua, RS-06K1000FT, 100Ω±1%, 1/4W, ±100ppm/℃, -55~155℃, 1206	2	R85
11.0301.0004-00	chip resistor	Yageo, RC0603FR-0710KL, 10K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R4,R5,R9,R10,R30,R31,R39,R44,R49,R60,R75,R84,R96,R98,R99,R100,R102,R107,R109,R119,R125,R128
11.0301.0027-00	chip resistor	Yageo, RC0603FR-0710RL, 10Ω±1%, 1/10W, ±200ppm/℃, -55~155℃, 0603	2	R42,R43,R138
11.0301.0211-00	chip resistor	Yageo, RC0805FR-0710RL, 10Ω±1%, 1/8W, ±100ppm/℃, -55~155℃, 0805	7	R7,R8
11.0301.0095-00	chip resistor	Yageo, RC1206FR-0710RL, 10Ω±1%, 1/4W, ±200ppm/℃, -55~155℃, 1206	2	R1,R6,R13,R14,R15,R18,R23,R24,R25,R26,R27,R28
11.0301.0083-00	chip resistor	Yageo, RC0603FR-07150KL, 150K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	7	R63,R68,R70
11.0301.0065-00	chip resistor	Yageo, RC0603FR-07150RL, 150Ω±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R41
11.0301.0020-00	chip resistor	Yageo, RC0603FR-0715KL, 15K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R45,R113
11.0301.0006-00	chip resistor	Yageo, RC0603FR-071KL, 1K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R3,R61,R69,R81,R115,R116,R124,R127,R129,R130,R131,R136,R137,R141
11.0301.0355-00	chip resistor	Yageo, RC0603FR-072R2L, 2.2Ω±1%, 1/10W, ±200ppm/℃, -55~155℃, 0603	2	R11,R17,R36,R37
11.0301.0121-00	chip resistor	Yageo, RC0603FR-07200KL, 200K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R64
11.0301.0239-00	chip resistor	Yageo, RC0603FR-07220KL, 220K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	7	R86,R95
11.0301.0320-00	chip resistor	Yageo, RC0603FR-07270KL, 270K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R66
11.0301.0002-00	chip resistor	Yageo, RC0603FR-072KL, 2K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R2
11.0301.0064-00	chip resistor	Yageo, RC0603FR-0730KL, 30K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	2	R73
11.0301.0077-00	chip resistor	Yageo, RC0603FR-07330KL, 330K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	7	R51,R52,R57,R58
11.0301.0354-00	chip resistor	Fenghua, RS-03K3001FT, 3K±1%, 1/10W, ±100ppm/℃, -55~155℃, 0603	7	R53,R54,R55,R56,R65,R67
11.0301.0348-00	chip resistor	Fenghua, RS-05L4R70FT, 4.7Ω±1%, 1/8W, ±250ppm/℃, -55~155℃, 0805	7	R12,R16,R34,R35
11.0301.0051-00	chip resistor	Yageo, RC1206FR-074R7L, 4.7Ω±1%, 1/4W, ±200ppm/℃, -55~155℃, 1206	2	R112
11.0301.0686-00	chip resistor	TA-I, RASA12FTN4R70, 4.7Ω±1%, 3/4W, ±400ppm/℃, -55~155℃, 抗冲击电阻, 1206	3	R101

11.0301.0115-00	chip resistor	Yageo, RC0603FR-074K99L, 4.99K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	7	R29,R40,R72,R93,R94, R106,R108,R118,R133 ,R134,R143
11.0301.0203-00	chip resistor	Yageo, RC1206FR-0743KL, 43k±1%, 1/4W, ±100ppm/°C, -55~155°C, 1206	7	R32
11.0301.0120-00	chip resistor	Yageo, RC0603FR-0749K9L, 49.9K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	7	R87,R88
11.0301.0018-00	chip resistor	Yageo, RC0603FR-075K1L, 5.1K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	2	R92
11.0301.0113-00	chip resistor	Yageo, RC1206FR-075K1L, 5.1K±1%, 1/4W, ±100ppm/°C, -55~155°C, 1206	2	R121,R126
11.0301.0339-00	chip resistor	Yageo, RC0603FR-075R1L, 5.1Ω±1%, 1/10W, ±200ppm/°C, -55~155°C, 0603	2	R83
11.0301.0290-00	chip resistor	Yageo, RC0603FR-075K6L, 5.6K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	7	R59
11.0301.0240-00	chip resistor	Yageo, RC0603FR-07510KL, 510K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	7	R120
11.0301.0087-00	chip resistor	Yageo, RC0603FR-0751KL, 51K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	2	R111
11.0301.0161-00	chip resistor	Yageo, RC0603FR-076K8L, 6.8K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	2	R89
11.0301.0074-00	chip resistor	Yageo, RC0603FR-0762KL, 62K±1%, 1/10W, ±100ppm/°C, -55~155°C, 0603	2	R82,R91
11.0805.0018-00	chip bead	MICROGATE, MGLB2012M121T3R0-LF, 3A, 120R@100MHz, 0805	7	B1,B2
11.0504.0164-00	Patch regulator diode	Yangjie, BZT52C68, 68V/2mA, 500mW, ±4V, -55~150°C, SOD-123	2	DZ2
11.0504.0125-00	Patch regulator diode	LRC, LMSZ5245BT1G, 15V, 500mW, SOD-123	7	DZ1
11.0504.0154-00	Patch regulator diode	LRC, LMSZ5256BT1G, 30V, 0.5W, SOD-123	2	DZ3
11.0102.0033-00	Patch voltage regulator	JSCJ, CJ431, Shunt Regulator, 2.5V/100mA/0.5%, -40~125°C, SOT-23	2	U12,U13
11.0102.0050-00	Patch voltage regulator	JSCJ, SCJT1117B-3.3-A, LDO, 3.3V/1A, 2%, -25~+125°C, SOT-223	2	U5
11.0102.0053-00	Patch voltage regulator	TMI, TMI2284QBuck Controller, 4.5~40Vdc, 120kHz~440kHz, -40~+125°C, SOP8	7	U3
11.0505.0022-00	Patch Schottky diode	JSCJ, B5819WS, 40V,1A, SOD-323	7	DS1,DS2,DS3
11.0505.0054-00	Patch Schottky diode	Yangjie, SSL510B, 100V/5A, 0.7V@5A, -55~150°C, SMB	7	DS4,DS5,DS6,DS7,DS8, DS9,DS10,DS11,DS12, DS13
11.0101.0502-00	Chip integrated circuit	Egmicro, EG2132, HALF-BRIDGE DRIVER,300V,1A/1.5A,-40°C~105°C, SOP8	7	U8
11.0101.0662-00	Chip integrated circuit	3Peak, TP5592-SR, Amplifier, 1.8~5.5V, 3.3MHz/20uV max, -40~125°C, 0.01 μV/°C, SOIC-8	2	U1,U2
11.0101.0589-00	Chip integrated circuit	3peak, TPM27524-S01R, 4.5~23V, Dual Low Side Driver, 60.4°C/W, -40~125°C, SOP-8	7	U4
19.0601.1019-03	PCB bare board	D60L_M1 V4.0(PNL/1 x 1 PCS)FR4,ROHS, four layers, 20 Z, lead-free spray tin, green oil, white letters, through hole plug oil, board L112.5 x W94.5 x T2.0mm, panel L112.5 x W94.5 x T2.0mm, none		
15.0101.0122-01	fans	plastic, FD4015BH, 12VDC/0.14A, ball /32.9dB, 8000 RPM /10.14CFM/5Wh@25°C,-10~70°C, 2.5/3P/XHB-3YA buckle, L=45mm, UL/CE, 40x40x15mm, none	7	

BC204 Expanding board BOM

No.	Value	Comment	Description	Designator	Footprint	Quantity
0	PCB	FR4, blue oil and white characters, immersion gold, board thickness 0.8mm, board frame 15.4mm*13.3mm				1
1	BC204	BC204	Module	U1	BC204	1

BC204 BOM						
No.	Value	Comment	Description	Designator	Footprint	Quantity
1	PCB	FR4, blue oil and white characters, immersion gold, board thickness 0.8mm, board frame 16mm*10mm				1
2	BC204 shielding cover\without silk screen\braiding	BC204 shielding cover				1
3	0402 1uF $\pm 20\%$ 6.3V	1uF	Capacitance	C1, C2, C4	C_0402	3
4	LE5010 QFN32	LE5010	IC	U1	QFN32	1
5	16MHZ $\pm 8\text{ppm}$ 9pF 3225	16MHZ	Crystal oscillator	Y1	3225	1

BC204 Expanding board BOM

No.	Value	Comment	Description	Designator	Footprint	Quantity
0	PCB	FR4, blue oil and white characters, immersion gold, board thickness 0.8mm, board frame 15.4mm*13.3mm				1
1	BC204	BC204	Module	U1	BC204	1