

Component name	parameter	pcs	Number
C6_US_V1.1 PCB	C6_US_V1.1	1	/
capacitor	10pF/5%/50V/0603	1	C83
capacitor	22pF/5%/50V/0603	6	C75 C76 C77 C78 C114 C115
capacitor	100pF/5%/50V/0603	2	C40 C93
capacitor	470pF/5%/50V/0603	1	C171
capacitor	1nF/10%/25V/0603	3	C38 C122 C128
capacitor	10nF/10%/25V/0603	3	C39 C123 C91
capacitor	33nF/10%/25V/0603	4	C158 C159 C164 C64
capacitor	2.2uF/10%/25V/0603	1	R125
capacitor	100nF/10%/25V/0603	54	C4 C8 C11 C12 C14 C15 C18 C63 C20 C26 C28 C30 C32 C34 C36 C41 C42 C43 C45 C47 C49 C51 C52 C53 C55 C57 C58 C59 C60 C61 C62 C65 C66 C67 C68 C69 C70 C73 C74 C79 C82 C85 C86 C95 C96 C97 C98 C105 C106 C107 C125 C126 C146 C147
capacitor	1uF/10%/25V/0603	2	C50 C72
capacitor	4.7uF/10%/25V/0805	7	C6 C10 C13 C17 C19 C44 C145
capacitor	10uF/10%/25V/0805	10	C2 C27 C33 C35 C37 C54 C71 C81 C94 C170
capacitor	22uF/10%/25V/0805	5	C9 C31 C56 C29 C84
capacitor	470uF/20%/16V/ ϕ 8.0mm*12.0mm F=3.5mm	2	C24 C25
Resistance	0R/1%/0603	11	R11 R14 R26 R112 R139 R152 R168 R30 R90 R91 R146
Resistance	22R/1%/0603	9	R70 R71 R77 R103 R104 R108 R105 R99 R110
Resistance	33R/1%/0603	8	R19 R20 R21 R127 R128 R154 R180 R181
Resistance	49.9R/1%/0603	4	R129 R130 R136 R137
Resistance	120R/1%/0603	1	R74

Resistance	330R/1%/0603	2	R95 R111
Resistance	510R/1%/0603	6	R5 R9 R23 R48 R52 R50
Resistance	1K/1%/0603	14	R1 R2 R3 R4 R7 R8 R17 R18 R39 R62 R64 R101 R102 R45
Resistance	1.2K/1%/0603	11	R33 R78 R93 R97 R133 R170 R173 R231 R253 R254 R268
Resistance	1.5K/1%/0603	2	R147 R285
Resistance	2K/1%/0603	7	R6 R10 R72 R73 R140 R155 R156
Resistance	2.2K/1%/0603	2	R150 R157
Resistance	4.7K/1%/0603	5	R51 R53 R54 R57 R68
Resistance	4.87K/1%/0603	1	R141
Resistance	10K/1%/0603	27	R28 R55 R56 R58 R59 R66 R67 R113 R115 R116 R117 R119 R120 R121 R124
Resistance	13K/1%/0603	1	R284
Resistance	15K/1%/0603	1	R47
Resistance	27K/1%/0603	1	R15
Resistance	33K/1%/0603	1	R13
Resistance	100K/1%/0603	1	R12
Resistance	110K/1%/0603	4	R44 R46 R92 R98
Resistance	510K/1%/0603	4	R94 R228 R38 R165
Resistance	1R/1%/0805	1	R283
Resistance	5.1R/1%/0805	4	R251 R252 R31 R32
Resistance	150R/1%/0805	1	R267
Resistance	0R/1%/1206	2	R34 R143
Resistance	3M/1%/1206	10	R226 R227 R233 R132 R142 R85 R86 R87 R88 R89
Resistance	30R±1%/3W//DIP	2	R40 R41

NTC	MF52E103J3950GA/NTC- 10K/5%/DIP	3	R134 R42 R43
Magnet bead	220R/100MHZ/200mA/0603	8	L3 L5 L6 L7 L10 L11 L12 FB1
Magnet bead	600R/100MHZ/500mA/0603	1	R148
inductance	GKNR6045- 470uH/M/470uH/20%/0.5A	1	L8
inductance	SWPA6045S100MT/10uH/20%/2.7 A/CD6045	1	L4
TVS	SMBJ12CA/12V/30.2A/SMB/DO- 214AA	4	D15 D16 D17 D18
TVS	SMBJ15CA/15V/24.6A/SMB/DO- 214AA	2	D9 D42
TVS	SMBJ15CA/15V/24.6A/SMB/DO- 214AA	2	
TVS	SMBJ6.5CA/6.5V/53.6A /SMB/DO-214AA	2	D10 D11
TVS	SMBJ5.0CA/6.5V/53.6A /SMB/DO-214AA	1	D8
LED	LED-GREEN /0603	1	D20
Diode	1N4007/M7//SMA(DO-214AC)	5	D40 D3 D4 D1 D2
TVS	SMAJ15CA/15V/24.6A/ SMA/DO- 214AC	2	D5 D6
Diode	1N4148W/SOD-123	3	D12 D47 D48
Diode	1N4148W/ SOD-123	3	
Diode	MMBD4148CC/SOT-23	1	
Diode	MMBD4148CC/SOT-23	1	D14
Transistor/NPN	MMBT3904/SOT-23	6	Q1 Q4 Q8 Q11 Q12 Q21
Transistor/NPN	MMBT3904/SOT-23	6	
Transistor/PNP	MMBT3906/SOT-23	2	Q2 Q3
Transistor/NPN	MMBT2222 SOT-23 1P	2	Q6 Q7
Diode	BAV99/SOT-23	2	D7 D41
Diode	BAV99/SOT-23	2	
Diode	SS14/SMA DO-214AC	1	D53

IC/Flash	GD25Q64ESIGR/SOIC-8	1	U18
IC/Flash	W25Q64DVSSIG/SOIC-8	1	
IC/MCU	GD32F450VGT6/LQFP100	1	U17
IC/RS3485	SP3485EN-L/S08NB	1	U5
IC/RS3485	MAX3485ESA/S08NB	1	
IC/RS232	SP3232EEN/SOP16	1	
IC/RS232	MAX3232ESE/SOIC-16	1	U15
IC/LDO DCDC	BL1117-33CX/T0-223/BL	1	U9
IC/LDO DCDC	BL1117-50CX/T0-223/BL	1	U14
IC	LM358A-SR/SOP-8	2	U1 U12
IC	RJGT103T3/SOT-23	1	U4
IC/DCDC	MC34063AG-1 SOP-8 T/R	1	U33
IC/DCDC	UC33063A SOP-8	1	
IC/DCDC	JW5357MSOTB#TR/TSOT23-6 JoulWatt	1	U8
IC	DP83848KSQ/QFN-40_6x6x05P	1	U19
Crystal oscillator	8MHZ/20ppm/20pF/SMD5032	1	Y3
Crystal oscillator	32.768KHZ/20ppm/12.5pF/SMD3 215	1	Y2
Crystal oscillator	50MHz/10ppm/3.3V 20mA /SMD3225-4P	1	Y6
really	515H-1AH-F-C	2	K1 K4
varistor	14D561K 0.6W	3	RV1 RV2 RV3
X2 capacitor	MP2224K32D3R800	1	C21
Y1 capacitor	JNA10F222ML02N	2	C22 C23
inductance	UU9803051000/UU9.8 10mH/φ 0.30x1Px50T	1	L1
inductance	IRM-10-12	1	U6

AC/DC power supply	AD15-B12/12V1.25A	1	
Power supply module	FA15-220S12G2N4/12V, 1.25A	1	
Buzzer	KS-12065D03YA	1	U11
connector	2.00mm/2*5 10pin	2	J17 J18
connector	2.54mm/2P	1	J11
connector	2.54mm/2*3 6pin	1	J22
connector	142V-5.08-02P/300V/10A 2pin 5.08	1	J1
connector	XH2.54-2P/2.54mm/2P	6	J9 J12 J25 J32 J29 J10
connector	2.54mm/4P	3	J19 J20 J23
connector	2.54mm/5P	1	J13
connector	2.54mm/5P	1	J26
Button battery base	CR1220	1	J14
Button battery	CR1220	1	J14
fuse	2010T6.3A250V	1	F1
screw	KM2*6	4	H5 H6 H7 H9
Bronze pillar	M2*7+3	2	H6 H5
Bronze pillar	M2*11+3	2	H7 H9
Gas discharge tube	2RK3600-5	1	GDT1
Switch	DSWB04LHGET	1	S1
Switch	DSIC04LHGET	1	
connector	MT44005D/80A/K112-0072	2	J4 J5
connector	MT46001DS/100A/K112-0092	4	J2 J3 J6 J7
Network port	RJ45/HR951180A	1	J28
screw	M4*8 8*8*1mm	2	J4 J5

screw	K200-0707/M4X8/SUS304	2	
screw	M8*12	4	J2 J3 J6 J7
connector	2.54mm/5P H=11.5mm	1	J31
Leakage detection	RCMU101SN-E-4SU-D1/CCID20	1	J26
wire	2.00 5P-2.54 5P-5P 4P-4P线 /22-26AWG/L=250mm	1	
Current transformer	ZMCT360J-2/L=250mm 2.54	1	J32
Current transformer	ZHTCT360J-2/L=260mm 2.54-2P	1	
4G Antenna	FPC-4G-IPEX1.13/L=200mm	1	J31
WIFI/WiFi Bluetooth	ESP32 WROOM 32U	1	J31