

Shield NCS3568-4 v.1.2 BOM 25.10.2021

	Designator	Quantity	Value	PackageReference	Comment
Resistors	1 R61	1	0,05 Ohm	2512	
	2 R58	1	10k	3296W	
	3 R1, R2, R3, R4	4	510 Ohm	1210	
	4 R7, R8, R36	3	150k	0805	
	5 R51	1	1 Ohm	1206	
	6 R11, R12, R37, R38, R48, R54	6	1k	0805	
	7 R41, R42, R56, R67, R35	5	4.7k	0805	
	8 R65	1	150 Ohm	0805	
	9 R50	1	1.5 Mohm	0805	
	10 R63	1	18.2k	0805	
	11 R62	1	95.3k	0805	
Capacitors	12 C18	1	100nF 250V	1206	
	13 C15	1	10uF 250V Low ESR	TH & SMD D10mm	Aluminium capacitor
	14 C11, C16	2	220uF 16V	SMD 6.3x7.7mm	Aluminium capacitor
	15 C7	1	10uF 10V Size-A/B	Size-A/B (SMD3216/3528)	Tantalum capacitor
	16 C21, C8, C9, C1, C2, C22, C17, C3, C4, C23, C5, C10, C24, C25, C26	15	100nF 50V	0805	
	17 C13, C12, C20, C19, C6	5	10uF 16V	0805	
	18 C14	1	10nF 50V	0805	
Diodes	19 D15	1	SS16/SS26	SMA/SMB	DS_SS16
	20 D14	1	SMBJ220CA	SMB	SMBJ220CA
	21 D9	1	ES2J	SMB	ES2F
	22 D12	1	LED Power	1206	Red
IC's & Transistors	23 U7	1	RT8258GE	SOT23-6	RT8258_LMR12010
	24 U6	1	LM3478MAX/LM3478MM/LM3488MM	SOIC-8/VSSOP-8	LM3478MAX-LM3488MM
	25 U5	1	DS3231SN/DS3231MZ	SOIC-16W/SOIC-8	DS3231SN_DS3231MZ
	26 U3	1	CD4504	SOIC-16/DIP-16	CD4504BM
	27 U1, U2	2	HV5122PJ-G	PLCC-44	HV5122PJ_Socket
	28 T2	1	BC817	SOT-23	PMBTA42
	29 T1	1	FQD10N20L/FQD12N20L	DPAK	
	30 IR1	1	TSOP4836	DIP-3	IR_Receiver_TSOP48
	31 For connect TEM1 via Wire PH2.0-3p	1	DS18B20	TO-92	Temperature sensor
Coils	32 L2	1	22uH 2A	SMD 10.8x10.8mm	22uH 2A
	33 L1	1	100uH 2.7A	TH 16x16mm	100uH 2.7A
Misc	34 GPS1-1, TEM1	2	Jack 3.5mm	ST-11M-030-00-0	Jack_3m5
	35 GPS1	1	PH2.0-4p	PH2.0-4p	PH2.0-4p_GPS
	36 ExDOWN, ExMODE, ExUP, LS1	4	PH2.0-2p		PH2.0-2p
	37 TEM1-1	1	PH2.0-3p Right	PH2.0-3p Right	PH2.0-3p_R_DS18B20
	38 DOWN, MODE, UP	3	SWT-3/13	SWT-3/13, h=13, L=9	Button_SWT-3
	39 SPI1	1	PLD-4		PLD-4
	40 DG3	1	PLS-4	PLS-4	PLS-4_DG3
	41 AN1, PWR1	2	PLS-6	PLS-6	PLS-6
	42 DG2	1	PLS-8	PLS-8	PLS-8
	43 DG1	1	PLS-10	PLS-10	PLS-10
	44 BT1	1	CR1220 (KEYS1056)	SMD	Bat_Holder_CR1220
	45 Insert into the battery holder BT1	1	Battery CR1220		
	46 B1	1	HCS0903G	SMD 8.5x8.5mm	
	47 For connect DS18B20 to TEM1	1	Wire PH2.0-3p	L=10-30cm	
48 Sockets for NX1, NX2, NX3, NX4 for IC U1, U2	44 2	Socket pin H3161-01 PLCC-44 Ssocket		Options: Sockets for Z568 Socket for IC U1, U2	
RGB LED	49 D1, D2, D3, D4, D5, D6, D7, D8	8	SK6812-Mini	3535	LED_RGB_3535
Nixie Tubes	50 NX1, NX2, NX3, NX4, NX5, NX6	6	Z568 or R Z568M		Z568_Tube
Neon Lamps	51 DS1, DS2, DS3, DS4	4	C2A	PIN2	Lamp_Nixie
Mechanical	52 Screw M3x5mm	8			
	53 Hex Spacer M3 12mm	4		IN-IN	
	54 Hex Spacer M4 20mm	6		IN-OUT	
	55 Nut Cap M4 L=6 mm (Bronze)	6			
	56 Heat Shrink for DS18B20 and Neon Lamp	8	1/0.5mm	56cm	For insulation DS18B20 and Neon Lamp
	57 Glass Columns	1	D=14mm, L=100mm		
	58 Rubbers Rings	2	16x1.8		
	59 PCB NCS33568-4 V1.2	1			Size 53.26x200mm