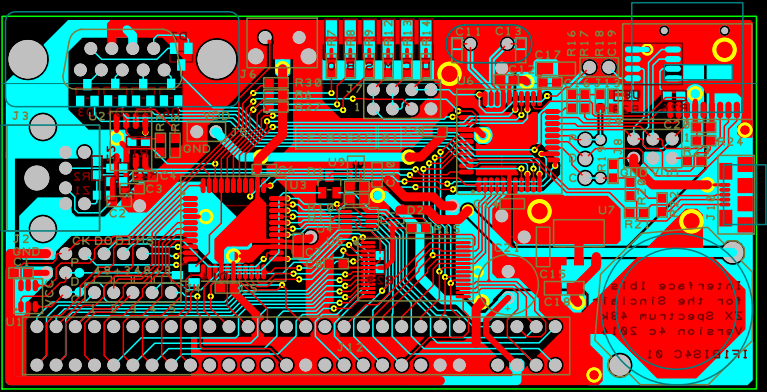


This is a detailed circuit board layout for an interface. The board is rectangular with a light blue background. It features a complex network of black and yellow traces. At the top center, there is a connector labeled 'UCMSBO' with eight pins. On the left side, there is a multi-pin connector with components labeled R26, D8, and R28. On the right side, there is a multi-pin connector with components labeled D6, D5, D4, D3, R1, R2, R4, Z1, and D4. At the bottom, there is a long row of pins. The layout includes various circular pads, some of which are yellow, and several rectangular components. A green border surrounds the entire board.

Interface 1bis  
for the Sinclair  
ZX Spectrum 48k  
Version 4c 2014

IF1BIS4C 01



Report File: F:\ZXS\DES\I F1b\4\c\L0T\DSP01\I F1BI S4C (Bi l l of material s).txt  
 Report Written: Tuesday, August 23, 2016  
 Project Path: F:\ZXS\DES\I F1b\4\c\L0T\DSP01\I F1BI S4C.prj  
 Design Path: F:\ZXS\DES\I F1b\4\c\L0T\DSP01\I F1BI S4C.pcb  
 Design Title:  
 Created: 2012/10/19 18: 07: 35  
 Last Saved: 2013/10/27 23: 32: 49  
 Editing Time: 33042 min  
 Units: mm (preci si on 3)

C1	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C2	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C3	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C4	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C5	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C6	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C7	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C8	Capaci tor	cerami c	chip	0603	1uF	Kemet	C0603C105K8PAC7867	461-2708
C9	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C10	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C11	Capaci tor	cerami c	chip	0603	22pF	Kemet	C0603C220J5GAC	264-4501
C12	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C13	Capaci tor	cerami c	chip	0603	22pF	Kemet	C0603C220J5GAC	264-4501
C14	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C15	Capaci tor	tantal um		3216-18	10uF	Vi shay	293D106X9016A2TE3	684-3890
C16	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C17	Capaci tor	tantal um		3216-18	10uF	Vi shay	293D106X9016A2TE3	684-3890
C18	Capaci tor	tantal um		3216-18	10uF	Vi shay	293D106X9016A2TE3	684-3890
C19	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C20	Capaci tor	cerami c	chip	0603	100nF	Kemet	C0603C104K4RAC	264-4630
C21	Capaci tor	al umi ni um		D80-H11	470uF	RS	711-0826	711-0826
D1	Schottky	double	di ode	SOT23-3	BAT54A	Fai rchi l d	BAT54A	670-8785
D2	Schottky	double	di ode	SOT23-3	BAT54C	NXP	BAT54C, 215	436-7789
D3	Schottky	di ode		SOT23-3	BAT54	NXP	BAT54, 215	436-7818
D4	Schottky	di ode		SOT23-3	BAT54	NXP	BAT54, 215	436-7818
D5	Schottky	di ode		SOT23-3	BAT54	NXP	BAT54, 215	436-7818
D6	Schottky	di ode		SOT23-3	BAT54	NXP	BAT54, 215	436-7818
D7	Schottky	double	di ode	SOT23-3	BAT54A	Fai rchi l d	BAT54A	670-8785
D8	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D9	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D10	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D11	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D12	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D13	LED			3216	Red	Ki ngbri ght	KP-3216SRC-PRV	466-3914
D14	Schottky	double	di ode	SOT23-3	BAT54C	NXP	BAT54C, 215	436-7789
J2	Receptacle	mini -DI N		PCB	6-way	Assmann	A-DI O-FS06/PURPLE	674-1476
J3	Plug	SUB-D		PCB	9-way	TE Conn	1-1634218-2	480-3853
J4	Pin header			SIL	5-way	RS	W81103T3825RC	251-8092
J5	Pin header			SIL	2-way	RS	W81103T3825RC	251-8092
J6	Tactile	switch		TH		Al ps	SKHHLMA010	758-1985
J7	Pin header			DIL	8-way	Mol ex	90131-0124	670-3452
J8	Pin header			DIL	6-way	RS	W82106T3825RC	251-8137
J9	Receptacle	mi cro-SDC		PCB		JAE	ST9S008V4AR1500	690-9326
J10	Receptacle	mi cro-USB		PCB		Hi rose	ZX62-B-5PA(11)	685-0965
J12	Receptacle	edge		TH	56-way	Ci nch	50-31SNL-XTF	403-796

J13	Pin header	SIL	2-way	RS	W81103T3825RC	251-8092
R1	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R2	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R3	Resistor chip	0603	1k	Bourns	CR0603-JW-102GLF	740-8880
R4	Resistor chip	0603	0R	Bourns	CR0603-J/-000ELF	740-8870
R5	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R6	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R7	Resistor chip	0603	220R	Bourns	CR0603-JW-221GLF	740-8921
R8	Resistor chip	0603	220R	Bourns	CR0603-JW-221GLF	740-8921
R9	Resistor chip	0603	220R	Bourns	CR0603-JW-221GLF	740-8921
R10	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R11	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R12	Resistor chip	0603	1k	Bourns	CR0603-JW-102GLF	740-8880
R13	Resistor chip	0603	1k	Bourns	CR0603-JW-102GLF	740-8880
R14	Resistor chip	0603	1k	Bourns	CR0603-JW-102GLF	740-8880
R15	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R16	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R17	Resistor chip	0603	47k	Bourns	CR0603-JW-473GLF	740-8953
R18	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R19	Resistor chip	0603	2k	Bourns	CR0603-FX-2001ELF	740-8836
R20	Resistor chip	0603	1k	Bourns	CR0603-JW-102GLF	740-8880
R21	Resistor chip	0603	0R	Bourns	CR0603-J/-000ELF	740-8870
R22	Resistor chip	0603	0R	Bourns	CR0603-J/-000ELF	740-8870
R23	Resistor chip	0603	47k	Bourns	CR0603-JW-473GLF	740-8953
R24	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R25	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R26	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R27	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R28	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R29	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
R30	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8892
U1	MCU 8-bit	SOT23-6	PI C10F322	Mi crochi p	PI C10F322-I /OT	755-9405
U2	Volt Supervisor 5V	SOIC8	TL7705	Texas	TL7705AI DRG4	662-4113
U3	CPLD 36-macrocell	TQFP44	XC9536XL10	Xi l i nx	XC9536XL10VQG44C	626-0652
U4	Dual 3-state buffer	DCT	74LVC2G125	Texas	74LVC2G125DCTRG4	662-6673
U5	SRAM 32Kx8	TSOP28	IS62C256AL	I SSI	IS62C256AL-45TLI	391-646
U6	MCU 8-bit	TQFP44	PI C18F47J53	Mi crochi p	PI C18F47J53-I /PT	704-7706
U7	Volt regulator 3.3V	SOT223	LD1117S33	ST	LD1117S33TR	714-0697
U8	SRAM 256Kx1	SOIC8	23K256	Mi crochi p	23K256-I /SN	666-8148
U9	Inverter ST	TSOP5	74LVC1G14	NXP	74LVC1G14GW, 125	510-392
V1	Battery retainer	TH	20mm	Keystone	3003	219-7960
Y1	Crystal	HC49S	12MHz	Ral tron	AS-12.000-18	693-6964