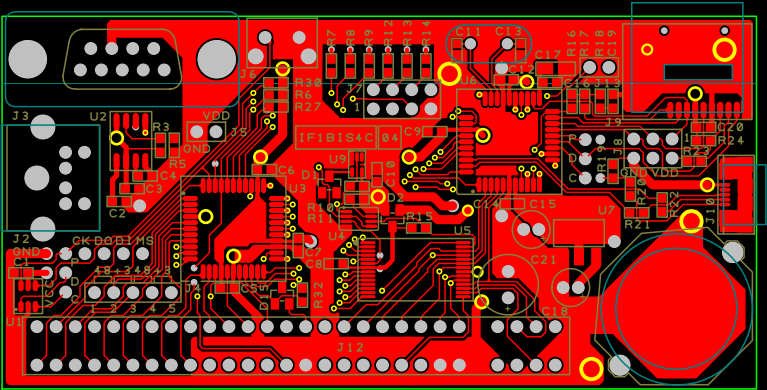
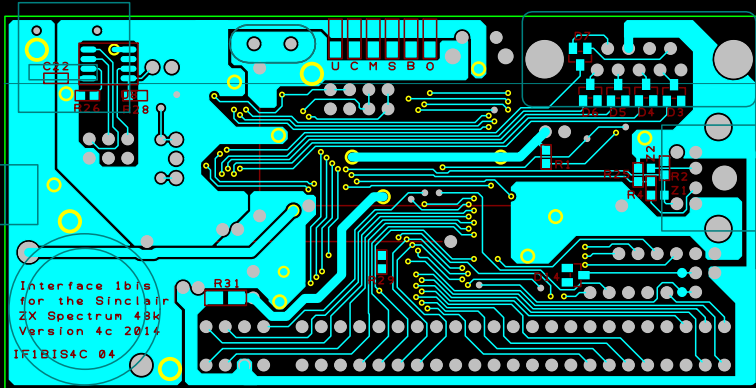
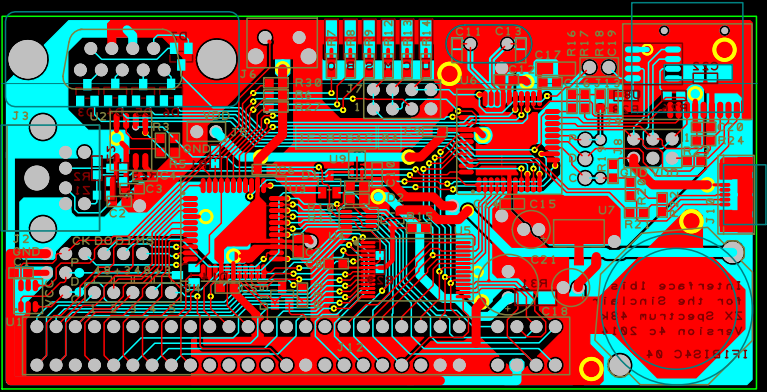


Projection Do Not Scale	Project Interface 1bis for the Sinclair ZX Spectrum 48k	
Client	Title Version 4c	Rev 2.4
Filename	Date 14-May-2014	Sheet 1 of 1







Report File: F:\ZXS\DES\I F1b\4\c\L0T\DSP04\I F1BI S4C (Bill of materials).txt
 Report Written: Tuesday, August 23, 2016
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 Design Path: F:\ZXS\DES\I F1b\4\c\L0T\DSP04\I F1BI S4C.pcb
 Design Title:
 Created: 2012/10/19 18:07:35
 Last Saved: 2014/05/24 04:18:11
 Editing Time: 35275 min
 Units: mm (precision 3)

C1	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C2	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C3	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C4	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C5	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C6	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C7	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C8	Capacitor	ceramic chip	0603	1uF	AVX	0603ZD105KAT2A	391-040
C9	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C10	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C11	Capacitor	ceramic chip	0603	22pF	Murata	GRM1885C2A220JA01D	723-5975
C12	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C13	Capacitor	ceramic chip	0603	22pF	Murata	GRM1885C2A220JA01D	723-5975
C14	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C15	Capacitor	aluminum	D50-H11	100uF	RS	711-0930	711-0930
C16	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C17	Capacitor	tantalum	3216-18	10uF	Vishay	293D106X96R3A2TE3	684-3913
C18	Capacitor	aluminum	D50-H11	10uF	RS	711-0911	711-0911
C19	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C20	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
C21	Capacitor	aluminum	D80-H11	470uF	RS	711-0826	711-0826
C22	Capacitor	ceramic chip	0603	100nF	Murata	GRM188F51E104ZA01D	723-5521
D1	Schottky diode		SOT23-3	BAT54A	Fairchild	BAT54A	670-8785
D2	Schottky diode		SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3929
D3	Schottky diode		SOT23-3	BAT54	Zetex	BAT54-7-F	738-4829
D4	Schottky diode		SOT23-3	BAT54	Zetex	BAT54-7-F	738-4829
D5	Schottky diode		SOT23-3	BAT54	Zetex	BAT54-7-F	738-4829
D6	Schottky diode		SOT23-3	BAT54	Zetex	BAT54-7-F	738-4829
D7	Schottky diode		SOT23-3	BAT54A	Fairchild	BAT54A	670-8785
D8	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D9	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D10	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D11	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D12	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D13	LED		3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D14	Schottky diode		SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3929
D15	Schottky diode		SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3929
J2	Receptacle mini-DIN		PCB	6-way	Assmann	A-DIO-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		Alps	SKHHLMA010	758-1985
J7	Pin header		DIL	8-way	FCI	77313-101-08LF	673-7512
J8	Pin header		DIL	6-way	RS	W82106T3825RC	251-8137
J9	Receptacle micro-SDC		PCB		JAE	ST9S008V4AR1500	690-9326

J10	Receptacle micro-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	Si L	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
R31	Resistor chip	1206	1R	Yageo	232271111108	461-3701
R32	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	SOI C8	TL7705	Texas	TL7705AI DRG4	662-4113
U3	CPLD 36-macrocell	TQFP44	XC9536XL10	Xi l i n x	XC9536XL10VQG44C	626-0652
U4	Dual 3-state buffer	DCT	74LVC2G125	Texas	74LVC2G125DCTRG4	662-6673
U5	SRAM 32Kx8	TSOP28	I S62C256AL	I SSI	I S62C256AL-45TLI	391-646
U6	MCU 8-bit	TQFP44	PI C18F46J53	Mi crochi p	PI C18F46J53-I /PT	704-7700P
U7	Volt regulator 3.3V	SOT223	AP1117E33	Zetex	AP1117E33G-13	751-2890
U8	SRAM 256Kx1	SOI C8	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
X1	Battery	COIN	CR2032	RS		597-201
Y1	Crystal	HC49S	12MHz	Ral tron	AS-12.000-18	693-6964