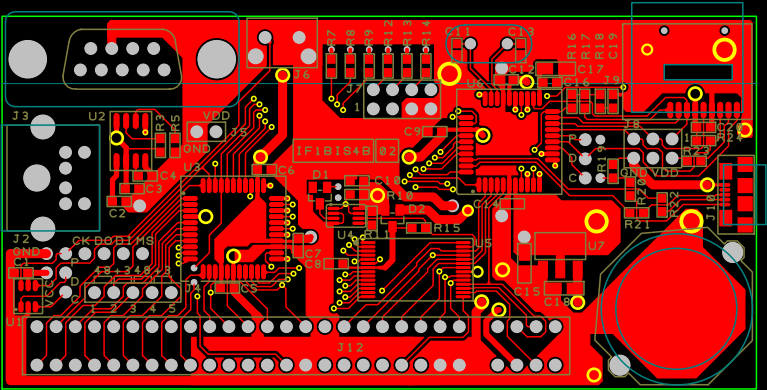
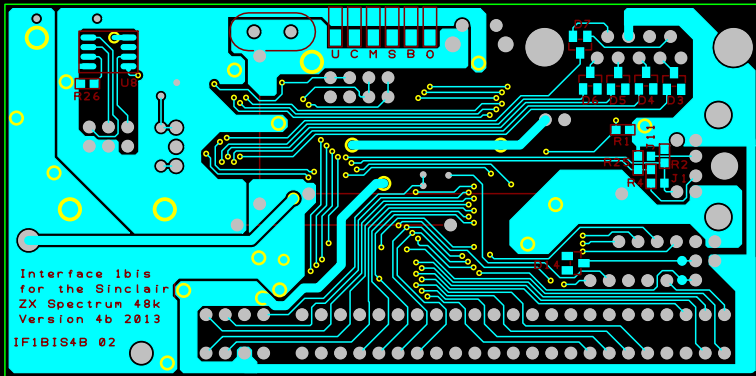
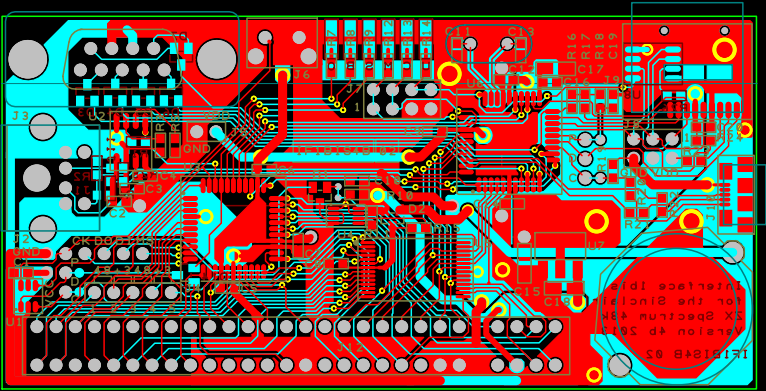


Projection Do Not Scale	Project Interface 1bis for the Sinclair ZX Spectrum 48k	
Client	Title Version 4 b	
Filename	Date 28-Oct-2012	Sheet 1 of 1







Report File: F:\ZXS\DES\I F1b\4\b\L0T\DSP02\I F1BI S4B (Bi l l of material s).txt  
 Report Written: Wednesday, March 18, 2015  
 Project Path: F:\ZXS\DES\I F1b\4\b\L0T\DSP02\I F1BI S4B.prj  
 Design Path: F:\ZXS\DES\I F1b\4\b\L0T\DSP02\I F1BI S4B.pcb  
 Design Title:  
 Created: 2012/10/19 18: 07: 35  
 Last Saved: 2013/03/12 06: 31: 09  
 Editing Time: 30807 min  
 Units: mm (preci si on 3)

C1	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C2	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C3	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C4	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C5	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C6	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C7	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C8	1uF	SM	1uF	AVX	0603ZD105KAT2A	391-040
C9	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C10	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C11	22pF	SM	22pF	Kemet	C0603C220J5GAC	264-4501
C12	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C13	22pF	SM	22pF	Kemet	C0603C220J5GAC	264-4501
C14	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C15	10uF/16V	SM	10uF	Vi shay	293D106X9016A2TE3	684-3890
C16	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C17	10uF/16V	SM	10uF	Vi shay	293D106X9016A2TE3	684-3890
C18	10uF/16V	SM	10uF	Vi shay	293D106X9016A2TE3	684-3890
C19	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
C20	100nF	SM	100nF	Kemet	C0603C104K4RAC	264-4630
D1		SOT23		Fai rchi l d	BAT54A	670-8785
D2		SOT23		NXP	BAT54C, 215	436-7789
D3		SM		NXP	BAT54, 215	436-7818
D4		SM		NXP	BAT54, 215	436-7818
D5		SM		NXP	BAT54, 215	436-7818
D6		SM		NXP	BAT54, 215	436-7818
D7		SOT23		Fai rchi l d	BAT54A	670-8785
D8	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D9	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D10	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D11	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D12	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D13	LED	SM		Ki ngbri ght	KP-3216SRC-PRV	466-3914
D14		SOT23		NXP	BAT54C, 215	436-7789
J1		SM				
J2		USER		Natconn		674-1476
J3	SUB_D_9	USER		TE Conn	1-1634218-2	480-3853
J4	JUMPER_3	USER		RS	W81103T3825RC	251-8092
J5	JUMPER_3	USER		RS	W81103T3825RC	251-8092
J6		USER		Al ps	SKHHLMA010	758-1985
J7		DI L		Mol ex	90131-0124	670-3452
J8		DI L		RS	W82106T3825RC	251-8137
J9		USER		JA E	ST9S008V4AR1500	690-9326
J10		SM		Hi rose	ZX62-B-5PA(11)	685-0965
J11		SM				

J12		USER		Ci nch	50-31SNL-XTF	403-796
R1	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R2	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R3	1k	SM	1k	Bourns	CR0603-JW-102GLF	740-8880
R4	0R	SM	0R	Bourns	CR0603-J/-000ELF	740-8870
R5	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R7	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R8	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R9	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R10	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R11	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R12	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R13	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R14	220R	SM	220R	Bourns	CR0603-JW-221GLF	740-8921
R15	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R16	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R17	47k	SM	47k	Bourns	CR0603-JW-473GLF	740-8953
R18	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R19	2k	SM	2k	Bourns	CR0603-FX-2001ELF	740-8836
R20	1k	SM	1k	Bourns	CR0603-JW-102GLF	740-8880
R21	0R	SM	0R	Bourns	CR0603-J/-000ELF	740-8870
R22	0R	SM	0R	Bourns	CR0603-J/-000ELF	740-8870
R23	47k	SM	47k	Bourns	CR0603-JW-473GLF	740-8953
R24	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R25	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
R26	10k	SM	10k	Bourns	CR0603-JW-103GLF	740-8892
U1		SM		Mi crochi p	PI C10F322-I /OT	755-9405
U2	Vol t Supervi sor 5V	SOI C8		Texas	TL7705AI DRG4	662-4113
U3		TQFP		Xi l i nx	XC9536XL10VQG44C	626-0652
U4		SM		Texas	74LVC2G125DCTRG4	662-6673
U5		TSOP		I SSI	I S62C256AL-45TLI	391-646
U6		TQFP		Mi crochi p	PI C18F47J53-I /PT	704-7706
U7		SM		ST	LD1117S33TR	714-0697
U8	23K256	SOI C8		Mi crochi p	23K256-I /SN	666-8148
V1	CR2032	USER		Keystone	3003	219-7960
Y1	12MHz	HC49S		Ral tron	AS-12.000-18	693-6964