

Projection Do Not Scale	Project Interface 1bis for the Sinclair ZX Spectrum	
Client	Title Version 4c	Rev 2.6
Filename	Date 18-Jun-2015	Sheet 1 of 1



IF1BIS4C 06

Interface 1bis  
for the Sinclair  
ZX Spectrum  
Ver 4c Rev 2.6

31-Mar-2015

U C M S B O

D7

D6 D5 D4 D3

R33

C23

R1

U18 R25

R4

Z2

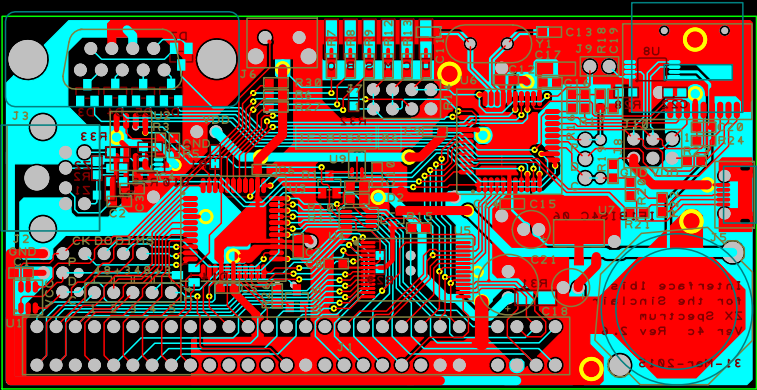
R2

Z1

R31

R29

D4



31-Hier-2018  
Ver 4c Rev 2.0  
ZX Spectrum  
Interface Board  
for the Sinclair

Report File: F:\ZXS\DES\I F1b\4\c\L0T\DSP06\I F1BI S4C (Bill of materials).txt  
 Report Written: Tuesday, August 23, 2016  
 Project Path: F:\ZXS\DES\I F1b\4\c\L0T\DSP06\I F1BI S4C.prj  
 Design Path: F:\ZXS\DES\I F1b\4\c\L0T\DSP06\I F1BI S4C.pcb  
 Design Title:  
 Created: 2012/10/19 18:07:35  
 Last Saved: 2015/06/18 21:53:03  
 Editing Time: 37570 min  
 Units: mm (precision 3)

C1	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C2	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C3	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C4	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C5	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C6	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C7	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C8	Capacitor ceramic chip	0603	1uF	AVX	0603ZD105KAT2A	391-040
C9	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C10	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C11	Capacitor ceramic chip	0603	22pF	Murata	GRM1885C2A220JA01D	723-5975
C12	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C13	Capacitor ceramic chip	0603	22pF	Murata	GRM1885C2A220JA01D	723-5975
C14	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C15	Capacitor aluminum	D50-H11	100uF	RS	711-0930	711-0930
C16	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C17	Capacitor tantalum	3216-18	10uF	Vishay	T491A106K006AT	801-5401
C18	Capacitor aluminum	D50-H11	10uF	RS	711-0911	711-0911
C19	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C20	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C21	Capacitor aluminum	D80-H11	470uF	RS	711-0826	711-0826
C22	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
C23	Capacitor ceramic chip	0603	100nF	AVX	06033C104KAT2A	698-3232
D1	Schottky double diode	SOT23-3	BAT54A	ON Semi	BAT54ALT1G	781-3926
D2	Schottky double diode	SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3923
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 double diode	SOT23-3	BAT54A	ON Semi	BAT54ALT1G	781-3926
D8	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D9	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D10	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D11	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D12	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D13	Light emitting diode	3216	Red	Kingbright	KP-3216SRC-PRV	466-3914
D14	Schottky double diode	SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3923
D15	Schottky double diode	SOT23-3	BAT54C	ON Semi	BAT54CLT1G	781-3923
J1	Receptacle edge	TH	56-way	Cinch	50-31SNL-XTF	403-796
J2	Receptacle mini-DIN	PCB	6-way	TE Conn	5749180-1	710-0441
J3	Plug SUB-D	PCB	9-way	Amphenol	L717TSEH09POL2RM5	691-8786
J4	Pin header	SIL	5-way	RS	W81103T3825RC	251-8092
J5	Receptacle micro-USB	PCB		Molex	105017-0001	848-6764
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	Pin header	SIL	2-way	RS	W81102T3825RC	251-8086
J10	Receptacle micro-SDC	PCB		Hi rose	DM3AT-SF-PEJM5	828-1884
R1	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R2	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R3	Resistor chip	0603	1k	TE Conn	CRG0603F1K0	213-2266
R4	Resistor chip	0603	0R	Bourns	CR0603-J/-000ELF	740-8870
R5	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R6	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R7	Resistor chip	0603	220R	TE Conn	CRG0603F220R	213-2187
R8	Resistor chip	0603	220R	TE Conn	CRG0603F220R	213-2187
R9	Resistor chip	0603	220R	TE Conn	CRG0603F220R	213-2187
R10	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R11	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R12	Resistor chip	0603	1k	TE Conn	CRG0603F1K0	213-2266
R13	Resistor chip	0603	1k	TE Conn	CRG0603F1K0	213-2266
R14	Resistor chip	0603	1k	TE Conn	CRG0603F1K0	213-2266
R15	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R16	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R17	Resistor chip	0603	47k	TE Conn	CRG0603F47K	213-2496
R18	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R19	Resistor chip	0603	2k	Bourns	CR0603-FX-2001ELF	740-8836
R20	Resistor chip	0603	1k	TE Conn	CRG0603F1K0	213-2266
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	TE Conn	CRG0603F47K	213-2496
R24	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R25	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R26	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R27	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R28	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R29	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R30	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R31	Resistor chip	1206	1R	Yageo	232271111108	461-3701
R32	Resistor chip	0603	10k	Bourns	CR0603-JW-103GLF	740-8899
R33	Resistor chip	0603	220R	TE Conn	CRG0603F220R	213-2187
U1	MCU 8-bit	SOT23-6	PIC10F320	Microchip	PIC10F320T-I/OT	755-9408
U2	Volt Supervisor 5V	SOIC8	TL7705	Texas	TL7705AIDRG4	662-4113
U3	CPLD 36-macrocell	TQFP44	XC9536XL10	Xilinx	XC9536XL10VQG44C	626-0652
U4	Dual 3-state buffer	DCT	74LVC2G125	Texas	74LVC2G125DCTRG4	662-6673
U5	SRAM 32Kx8	TSOP28	CY62256	Cypress	CY62256NLL-55ZXI	827-2565
U6	MCU 8-bit	TQFP44	PIC18F46J53	Microchip	PIC18F46J53-I/PT	704-7700P
U7	Volt regulator 3.3V	SOT223	AP1117E33	Zetex	AZ1117CH-3.3TRG1	828-7609
U8	SRAM 1024Kx1	TSSOP	23LCV1024	Microchip	23LCV1024-I/ST	803-2190
U9	Inverter ST	TSOP5	74LVC1G14	NXP	74LVC1G14GW, 125	510-392
U10	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	Quantec	QCL12.0000F18B23B	814-9425