

+D DISK INTERFACE BOM

REV 0.2B

DATE	COMPANY	COMMENT 1	COMMENT 2
2018-07-14	Alvaro Alea Fdz.	for any ZX Spectrum	www.va-de-retro.com edition
COMMENT 3	COMMENT 4	TOTAL PARTS	
con interface de Joystick Kempston		65 (Unique 38)	

Ref	Qty	Value	Footprint	Datasheet
[C] - Capacitors				
C1	1	100p	Capacitors_THT:C_Disc_D5.0mm_W2:5mm_P5.00mm	
C2	1	10n	Capacitors_THT:C_Disc_D5.0mm_W2:5mm_P2.50mm	
C3 C5 C17	3	100u/16 V	Capacitors_THT:CP_Radial_D7.5mm_P2.50mm	
C4 C6 C7 C8 C9 C10 C11 C12 C13 C14 C16 C18	12	100n	Capacitors_THT:C_Disc_D5.0mm_W2:5mm_P5.00mm	
C15	1	33p	Capacitors_THT:C_Disc_D5.0mm_W2:5mm_P2.50mm	
[D] - Diodes				
D1 D5	2	LED	LEDs:LED_D5.0mm	~
D2 D3 D4	3	1N4148	Diodes_THT:D_DO-35_SOD27_P7.62mm_Horizontal	<a href="http://www.nxp.com/documents/data_sheet/1N4148_1N4448.pdf">http://www.nxp.com/documents/data_sheet/1N4148_1N4448.pdf</a>
[J] -				
J1	1	ZX_Spectrum_Connector_GENERAL_PURPOSE	Connector_PinHeader_2.54mm:PinHeader_1x17_P2.54mm_Vertical	~
J4	1	Conn_02x17_Odd_Even	Connector_PinHeader_2.54mm:PinHeader_2x17_P2.54mm_Vertical	
J5	1	DB25_Female_MountingHoles	Connector_Dsub:DSUB-25_Female_Horizontal_P2.77x2.84mm_EdgePinOffset4.94mm_Housed_MountingHolesOffset7.48mm	~
J6	1	Conn_02x13_Odd_Even	Connector_PinHeader_2.54mm:PinHeader_2x13_P2.54mm_Vertical	
[JP] -				
JP1	1	Jumper	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	
JP2 JP3	2	Conn_01x03	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical	
JP4	1	Conn_01x04_Male	Connector_PinHeader_2.54mm:PinHeader_1x04_P2.54mm_Vertical	
JP5 JP6	2	Jumper_NC_Dual	Jumper:SolderJumper-3_P1.3mm_Bridged12_RoundedPad1.0x1.5mm	~
[J_KEMPSTON_ATARI] -				
J_KEMPSTON_ATARINa1		DB9_Male	Connector_Dsub:DSUB-9_Male_Horizontal_P2.77x2.84mm_EdgePinOffset4.94mm_Housed_MountingHolesOffset7.48mm	
[MK] -				
MK1	1	Mounting_Hole_PAD	MountingHole:MountingHole_3mm_Pad_Via	
MK2 MK3	2	Mounting_Hole	MountingHole:MountingHole_3mm	
[R] - Resistors				
R1	1	270	Resistors_THT:R_Axial_DIN0207_L6:3mm_D2.5mm_P7.62mm_Horizontal	

R2 R12	2	680	Resistors_THT:R_Axial_DIN0207_L6:3mm_D2.5mm_P7.62mm_Horizontal
R3 R4	2	10K	Resistors_THT:R_Axial_DIN0207_L6:3mm_D2.5mm_P7.62mm_Horizontal
R5 R6 R8 R9	4	470	Resistors_THT:R_Axial_DIN0207_L6:3mm_D2.5mm_P7.62mm_Horizontal
R7 R10 R11	3	2K2	Resistors_THT:R_Axial_DIN0207_L6:3mm_D2.5mm_P7.62mm_Horizontal
[SW] -			
SW1 SW3	2	SW_DPST_x2	Buttons_Switches_THT:SW_TH_Tactile_Omron_B3F-10xx
SW2	1	SW_DIP_x02	Button_Switch_THT:SW_DIP_SPSTx02_Slide_9.78x7.26mm_W7.62mm_P2.54mm
[U] - Semiconductors			
U1	1	74LS27	Housings_DIP:DIP-14_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74LS27">http://www.ti.com/lit/gpn/sn74LS27</a>
U2	1	PAL20L8	Housings_DIP:DIP-24_W7.62mm_LongPads
U3	1	74LS00	Housings_DIP:DIP-14_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74ls00">http://www.ti.com/lit/gpn/sn74ls00</a>
U4	1	L7805	TO_SOT_Packages_THT:TO-18 <a href="http://www.st.com/content/ccc/resource/technical/document/datasheet/41/4f/b3/b0/12/d4/47/88/CE">http://www.st.com/content/ccc/resource/technical/document/datasheet/41/4f/b3/b0/12/d4/47/88/CE</a>
U5	1	AT28C256	Housings_DIP:DIP-28_W15.24mm_LongPads
U6	1	6264	Housings_DIP:DIP-28_W15.24mm_LongPads
U7	1	WD1772	Housings_DIP:DIP-28_W15.24mm_LongPads <a href="https://amaus.net/static/S100/western%20digital/datasheet/Western%20Digital%20FD1771%20Sp">https://amaus.net/static/S100/western%20digital/datasheet/Western%20Digital%20FD1771%20Sp</a>
U8	1	74LS175	Housings_DIP:DIP-16_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74LS175">http://www.ti.com/lit/gpn/sn74LS175</a>
U9	1	74LS06	Housings_DIP:DIP-14_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74LS06">http://www.ti.com/lit/gpn/sn74LS06</a>
U10	1	74LS374	Housings_DIP:DIP-20_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74LS374">http://www.ti.com/lit/gpn/sn74LS374</a>
U11	1	74LS126	Housings_DIP:DIP-14_W7.62mm_LongPads <a href="http://www.ti.com/lit/gpn/sn74LS126">http://www.ti.com/lit/gpn/sn74LS126</a>
U12	1	GAL22V10	Housings_DIP:DIP-24_W7.62mm_LongPads
[Y] -			
Y1	1	8.000Mhz	Crystal:Crystal_HC18-U_Vertical ~
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