

## Replica Acorn Atom Mainboard PCB (Electron Cased)

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C4,11,107	10uF/16V	Tantalum bead capacitor			3
C5,8	22uF/10V	Tantalum bead capacitor			2
C6,105	10nF	Ceramic capacitor			2
C7,9	47nF	Ceramic capacitor			2
C12	47uF/16V	Electrolytic capacitor			1
C14-35,37-39	100nF	Ceramic capacitor			22
C36	150pF	Ceramic capacitor			1
C106	2n2	Ceramic capacitor			1
D1,2	1N4148	Small signal silicon diode			2
IC1	6522	Versatile Interface Adapter (VIA)			1
IC7	74LS02	Quad 2-input NOR gate			1
IC8	74LS00	Quad 2-input NAND gate			1
IC10-52	62256	32K x 8-bit SRAM			1
IC20-21	27128	16K x 8-bit EPROM			1
IC22	6502	8-bit processor			1
IC24	27128	16K x 8-bit EPROM	was a 2732 on Issue 1.0 Boards		1
IC25	INS8255	Programmable peripheral Interface			1
IC26	7442	BDC to decimal decoder/driver			1
IC27,28,50,108	74LS244	Octal buffer			4
IC29	74LS245	Octal buffer			1
IC31	MC6847	Video Display Generator (VDG)			1
IC32-43	6264	8K x 8-bit SRAM			1
IC44	74LS393	Dual 4-bit binary counter			1
IC45	74LS04	Hex inverter			1
IC46	LM358	Dual op-amp			1
IC47	74LS163	4-bit synchronous counter			1
IC49a,49b,49c	74LS139	Dual 2 of 4 decoder			3
IC55	74LS373	Octal latch with tri-state outputs			1
IC56	THS7314	3-Channel Video Amp			1
IC101	MC68B54	Advanced Data Link Controller (ADLC)			1
IC102,103	LM319	Dual high speed comparator			2
IC104	75159	Dual differential line driver			1
IC105	74LS123	Dual monostable			1
IC109	74LS132	Quad 2-input NAND Schmitt			1
IC222	74LS138	1 of 8 decoder			1
LK2	0.1" x 2		6522 IRQ		1
LK3	0.1" x 2		6854 IRQ		1
LK4	0.1" x 2		Invert		1
LK5	0.1" x 3		CSS		1
LK6	0.1" x 3		Utility EPROM		1
PL4	10-way	2 x 5 Pin header	Colour O/P		1
PL5	26-way	Box header	Printer		1
PL8	20-way	Header	PL8		1
PL9	26-way	Box header	Keyboard		1
PL10	2-way	Pin header	Speaker		1
PL11	20-way	Box header	FDC Interface		1
PL12	10-way	10-way TP 0.1	6522 Spare		1
PL13	2-way	Header	Aux power		1
PL14	8-way	Header			1
Q1,100	BC239	NPN transistor			2
R1,2,14,29,31,32,34,36,43,44,45	4K7	250mW resistor			11
R3,28	470R	250mW resistor			2
R6a-e	75R	250mW resistor			5
R7,42	8K2	250mW resistor			2
R8	3K3	250mW resistor			1
R9,13,30,38,124-126,129	1K0	250mW resistor			8
R10	470R	250mW resistor			1
R33	47K	250mW resistor			1
R35	470K	250mW resistor			1
R37,119,120,122,123,130	10K	250mW resistor			6
R109-112	100K	250mW resistor			4
R113,115-117	56K	250mW resistor			4
R114,118,121	1M5	250mW resistor			3
R127	39K	250mW resistor			1
R128	1K5	250mW resistor			1
RP101	47K x 8	Resistor network		4309X-101	1
RP1(R17-25)	4K7 x 9	Resistor network		4610X-101	1
RP2(R39-41)	4K7 x 8	Resistor network		4609X-101	1
S1	8-way	DIL switch	Node Ident	BD08	1
SK1	RCA Socket	RCA phono socket	Video		1
SK2	7-pin	DIN socket PCB	Cassette		1
SK3	2.1mm	Power jack socket PCB	Power		1
SK4	3.5mm 4-pole	Jack socket TRRS with adapter board	YPrPb		1
SK100	5-pin	DIN socket PCB	Econet		1
X1	3.58MHz	4-pin XTAL oscillator			1
X2	4.00MHz	4-pin XTAL oscillator			1
IC46,102,103	8-pin	DIL socket			3
IC7,8,48,44,45,104,109	14-pin	DIL socket			7
IC26,47,49a,49b,49c,105,222	16-pin	DIL socket			7
IC27,28,29,50,55,108	20-pin	DIL socket			6
IC24	24-pin	DIL socket			1
IC10-52,20-21,32-43,101	28-pin	DIL socket			4
IC1,22,25,31	40-pin	DIL socket			4

### Off board Parts (Electron cased)

		Acorn Electron case	modified		1
	26-way	Ribbon cable	Keyboard		250mm
	26-way	Ribbon cable header		3M	2
		Adhesive backed black plastic	to fit to top of case		1

### Off board Parts (not Electron cased)

	26-way	Ribbon cable			100mm
	26-way	Ribbon cable header		3M	2