

Acorn Atom Reworked Issue 3.8 Part List

Name	Designator	Footprint	Qty	Part No.	Supplier	Notes
10nf	C1	CAP_2.54_CERAMIC	1			
22uF	C2,C3,C4,C5,C8	CAP-D3.0XF1.5	5			
10nF	C6	CAP_2.54_CERAMIC	1			
47nF	C7,C9	CAP_2.54_CERAMIC	2			
33pF	C10,C11	CAP_2.54_CERAMIC	2			
1000uF	C12,C38	CAP-TH_BD10.0-P5. 00-D0.6-FD	2			
100nF	C13,C14,C15,C16, C17,C18,C19,C20, C21,C22,C23,C24, C25,C26,C27,C28, C29,C30,C31,C32, C36,C37,C39	CAP_5MM_CERAMI C	23			
100pF	C33,C34	CAP_2.54_CERAMIC	2			
10uF	C40	CAP-D3.0XF1.5	1			
6522	IC1	DIP40	1			
74LS244	IC2,IC3,IC27,IC28,I C50	DIP20	5			
74LS245	IC4,IC29	DIP20	2			
74LS27	IC5	DIP14	1			
74LS04	IC6,IC45	DIP14	2			
62256	IC10,IC12,IC32	DIP28	3			
74LS00	IC8,IC11,IC48	DIP14	3			
74HCT573	IC13	DIP20	1			
74LS08	IC14	DIP14	1			
74LS14	IC15	DIP14	1			
W27C512	IC20	DIP28	1			Winbond
74LS30	IC21	DIP14	1			
6502	IC22	DIP40	1			
74LS138	IC23	DIP16	1			
8255	IC25	DIP40	1			
6847	IC31	DIP40	1			
555	IC33	DIP8	1			
74LS163A	IC47	DIP16	1			

74LS139	IC49	DIP16	1			
CONN_2x15	KB1	CONN_2X15	1			
1Mh	L1	AXIAL-6.5X2.3(1/4W)	1			
3mm	LED1	LED-3MM RED	1			
HDR-M-2.54_1x3	LK1,LK4,LK6,LK7,LK8,LK10,LK11,LK12	HDR-M-2.54_1X3	8			
HDR-M-2.54_1x2	LK2,LK3,LK5,LK9,LK13,SPK1	HDR-M-2.54_1X2	6			
HDR-M-2.54_1x5	LK14	HDR-M-2.54_1X5	1			
HDR-M-2.54_2x5	PL4	HDR-M-2.54_2X5	1			
HEADER_26_PIN	PL5	CONN_2X13	1			
ATOM_EXPANSION_64PIN	PL6/7	HEADER_2X64_A	1			
HDR-M-2.54_2x10	PL8	HDR-M-2.54_2X10	1			
BC547B	Q1,Q2	BC547	2			
4K7	R1,R2,R13,R14,R15,R16,R21,R26,R28,R29,R39,R40,R41	1/4W 5%	13			
470R	R3,R4,R5,R12	1/4W 5%	4			
82R	R6	1/4W 5%	1			
8K2	R7	1/4W 5%	1			
3K3	R8	1/4W 5%	1			
1K	R9,R22,R30	1/4W 5%	3			
270R	R10,R24	1/4W 5%	2			
3K9	R11	1/4W 5%	1			
2.2K	R17	1/4W 5%	1			
1M	R19,R20	1/4W 5%	2			
10K	R23	1/4W 5%	1			
1M	R27	1/4W 5%	1			
4k7	R31,R32,R36	1/4W 5%	3			

47k	R33,R34	1/4W 5%	2			
470k	R35	1/4W 5%	1			
10k	R37	1/4W 5%	1			
UM1233 E36	SK1	UM1233	1			
7_PIN_DIN_PCB	SK2	7_PIN_DIN_PCB	1	2989968	Farnell	
DC005-2.5M M	SK3	DC-IN-TH_DC-005-2 0A	1	259-6425	RS	
rca connector	SK4	RCA CONNECTOR	1	189-3957	RS	
3.58MHz	X1	OSC-49S-1	1			
4Mhz	X2	OSC-49S-1	1			
74LS02	IC7	DIP14	1			
74HC04	IC26	DIP14	1			
74LS393	IC44	DIP14	1			
LM348	IC46	DIP8	1			

NOTES

IC26 must be HC version for CPU clock to run

IC11 must be LS version for video clock to run

Ribbon cable & connectors

Keyboard

Name	Designator	Footprint	Qty	Part No.	Supplier	Notes
MX 1.0U	C1	CHERRY MX	60			Outemu
KB1	KB1	HDR-M-2.54_2x15	1			
LED	LED	HDR-M-2.54_1X2	1			Optional
4K7	R17-R25	1/4W 5%	9			
2K2	R40	1/4W 5%	1			Optional

Outemu switches, keycaps and spacebar stabilizer from Aliexpress

Spacebar is 6.25U

I used the black switches as these give a nice, non clicky feel.

Some keycaps require a sticker for the correct keyboard designation

