

Acorn Atom Parts List



Item	Original	Suggested	CPU Section
IC22	6502	65C02	CPU
IC23	74LS138		Decodes 4K memory blocks in top 32K
IC44	74LS393	74HCT393	Binary counters
IC9, IC45	74LS04	74HCT04	Inverters for clock oscillators, reset, etc.
IC7	74LS02		Helps detect first 1K
IC8,48	74LS00		
IC49	74LS139		I/O decoder
X4	4.000 MHz		Quartz crystal
			ROM and RAM
IC10-19,51,52	2114	6264 or 62256	6K, 8K or 32K RAM
IC6	74LS138		Decoder for 2114 chips
IC20	MM52164	27128	8K ROM at # FXXX and # CXXX Atom BASIC and COS
IC21	MM52132		4K (EP)ROM at 0xDXXX Atom Floating Point
IC24	MM52132	2732 (not pin compatible)	4K EPROM at # AXXX Utility ROM
			Keyboard and I/O
IC1	6522	65C22	User I/O and/or printer port
IC50	74LS244	74HCT245	Printer port buffer
IC25	8255	82C55	PPI
IC26	7445		Keyboard column decoder
			Tape interface
IC46	LM358		Op-Amp for tape input
IC47	74LS161/163	74HCT161/163	Counter for tape interface
			Expansion bus
IC2	8304	74HCT245	Expansion bus data buffer
IC3,4	81LS95	74HCT245	Expansion bus address buffers
IC5	74LS30		Expansion bus buffer enable
			Video section
IC31	6847		CRT controller
IC30	74LS138	6264	Decoder for 2114 chips
IC32-43	2114		Video RAM
IC27,28	81LS95	74HCT245	Video RAM address buffers
IC29	8304	74HCT245	Video RAM data buffer
X1	3.575945 MHz		Quartz crystal
			Power
IC53,54	LM340T-5		5V regulators
C12	22 uF		Input voltage capacitor
C13	22 uF		5V decoupler, LF
C14-28	47 nF		5V decouplers, HF
			Misc
L1	1 mH		Choke
SK1			UHF modulator
SK2	7-pin DIN		
SK3			
Q1,Q2	BC107		Power socket
C1,6,10	10 nF		NPN transistors
C2-5, 8,12,13	22 uF, > 10V		
C7	47 or 100 nF		LF decoupling
C9	22 or 47 nF		
C11	10 uF		