

Parts List for Small Computer 101 schematic 1.00

Price guide for low volume purchases in UK, Nov 2017

Project total in UK pounds (excluding tax): 20.10

<i>Item</i>	<i>Qty</i>	<i>Description</i>	<i>Supplier</i>	<i>Part number</i>	<i>UK Pounds Each</i>	<i>UK Pounds Total</i>
C1	1	Capacitor, electrolytic, 10uF, 5V+ min		estimated price	0.15	0.15
C2-C9	8	Capacitor, ceramic, 100nF, 5V+ min, lead spacing 0.1"		estimated price	0.15	1.20
IC1	1	Z80 CPU, 10MHz, Z84C0010PEG			3.72	3.72
			Farnell	1081891	4.57	
			Mouser	692-Z84C0010PEG	3.80	
			RS	625-9078	3.72	
IC2	1	128k x 8 bit static RAM, AS6C1008			2.18	2.18
			Farnell	1562896	2.61	
			RS	744-4542	2.18	
IC3	1	128k x 8 bit FLASH, SST39SF010A			1.17	1.17
			Farnell	1896595	1.20	
			RS	823-4422	1.17	
IC4	1	74HCT4075, triple 3 input OR gate			0.65	0.65
			eBay		1.00	
			Farnell	not stocked		
			Mouser	595-CD74HCT4075E	0.65	
			Rapid	not stocked		
			RS	not stocked		
IC5	1	74HCT259, 8 bit addressable latch			0.43	0.43
			eBay		0.84	
			Farnell	1214402	0.53	
			Mouser	595-CD74HCT259E	0.43	
			Rapid	not stocked		
			RS	not stocked in DIP		
JP1	1	2 pin male header, 1 row x 2 pin (plus jumper)		estimated price	0.10	0.10
LED1	1	Red LED, 3mm (controllable output)		estimated price	0.10	0.10
LED2	1	Green LED, 3mm (power indicator)		estimated price	0.10	0.10
PB1	1	Push button switch (reset button)		estimated price	0.30	0.30
PL1	1	6 pin male header, 1 row x 6 pin		estimated price	0.10	0.10
R1,R2	2	Resistor, 470k (could 330R for brighter LEDs)		estimated price	0.05	0.10
R3,R4	2	Resistor, 1k (some FTDI cables are fussy about values)		estimated price	0.05	0.10
R5	1	Resistor 10k (Still investigating optimum value)		estimated price	0.05	0.05
R6,R7	2	Resistor 4k7		estimated price	0.05	0.10
SK1	1	Power socket, 2.1mm		estimated price	0.35	0.35
SK2	1	40 pin female header, 1 row x 40 pin, straight			0.29	0.29
		eBay pack of 10	eBay	232346774001	2.89	
SK3	1	40 pin female header, 1 row x 40 pin, right angled			0.29	0.29
		eBay pack of 10				
SW1	1	Miniature toggle switch (power switch)		estimated price	1.00	1.00
X1	1	Oscillator, 7.3728MHz, 8-pin, QX8T50B			1.62	1.62
			Farnell	2508742	1.93	
			RS	796-0574	1.62	
Circuit board	1			estimated price	4.00	4.00
Consumables	1	Solder etc.		estimated price	1.00	1.00
IC socket 8 pin	1	8-pin, narrow (0.3") socket		estimated price	0.10	0.10
IC socket 14 pin	1	14-pin, narrow (0.3") socket		estimated price	0.10	0.10
IC socket 16 pin	1	16-pin, narrow (0.3") socket		estimated price	0.10	0.10
IC socket 32 pin	2	32-pin, wide (0.6") socket		estimated price	0.20	0.40
IC socket 40 pin	1	40-pin, wide (0.6") socket		estimated price	0.30	0.30

Possible accessories required:

FTDI cable	1	FTDI cable, 5 volt, USB to TTL serial				
		FTDI 5V signal cable	Farnell	2419945	14.79	
		not tested	Mouser	895-TTL-232R-5V	15.30	
		HALJIA FT232RL FTDI USB to TTL Serial 3.3V or 5.5V	Amazon	B06XDH2VK9	5.16	
32pin ZIF socket	1	32 pin ZIF socket from Highly One, from Hong Kong	Amazon	B076ZLKTP9	1.99	