



Contents of Your SBC6120-RC Full Kit VT6 Version

Description	Quantity	
SBC6120-RC2 PC Board, Revision B	1	
<i>(The following items are contained inside the package marked SBC6120RC-PK)</i>		
U1	HD6120 Harris 12 Bit Microprocessor	1
U6, U7	27C256R EPROM, 32K (BTS6120 HIGH and LOW)	2
U4, U13, U14, U31	22V10 GAL (MEM1, MEM2, IOT1, and IOT2)	4
<i>(The following items are contained inside the package marked SBC6120RC-FK1)</i>		
U2, U3, U23, U24	74HC373 Octal D latch	4
U8, U9	628512 512K x 8 LP SRAM	2
U12	DS1321 Nonvolatile RAM controller	1
U16, U25, U26	74HC174 CMOS Hex D Flip-Flop	3
U19	HD6402 CMOS UART	1
U20, U33	74HC74 CMOS Dual D flip-flop	2
U21	MAX232CPE Dual +5V only RS-232 transmitter/receiver	1
U22	74HC4040 CMOS 12 stage binary ripple counter	1
U27, U28, U29, U30	74HC366 OR 74HC368 CMOS Hex Tri-State Inverting Buffer	4
U32	7555 OR TLC555 CMOS Timer	1
OSC1	4.9152 MHz half size crystal oscillator	1
	40 pin DIP socket (U1)	1
	28 pin 0.6" DIP socket (U6 and U7)	2
	24 pin 0.3" DIP socket (U4, U13, U14 and U31)	4
<i>(The following items are contained inside the package marked SBC6120RC-FK2)</i>		
D1	1N6267 TVS zener diode (DO41A)	1
F1	5A picofuse fast blow	1
RP1, RP2	9x560 ohm 10 pin SIP resistor	2
RP3, RP4	7x560 ohm 8 pin SIP resistor	2
RP7, RP10	9x10K ohm 10 pin SIP resistor	2
RP5, RP6, RP9, RP11, RP12	7x10K ohm 8 pin SIP resistor	5
RP8	5x10K ohm 6 pin SIP resistor	1
R1	10K 5% 1/8W metal film resistor	1
R2	18K 5% 1/8W metal film resistor	1
C5, C6, C7, C8, C9	1uF 25V radial lead tantalum capacitor	5
C11	47uF 6V radial lead tantalum capacitor	1
C12, C13	68pF 50V ceramic mono capacitor (0.1" LS)	2
	0.01uF 50V ceramic mono capacitor (0.1" LS)	30
J1	Coaxial power jack 2.1 x 5.5mm (PCB mount, high current)	1
J3	DB9 female, PCB mount, right angle	1
JP1-4	2x4 pin 0.1" header	1
	Shorting plug, 0.1"	1



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B1	Coin cell (20mm) holder	1
<i>(The following items are contained inside the package marked SBC6120RC-SW)</i>		
	SPDT ON-ON toggle switch, 1/4" shaft, solder lugs	13
	SPDT ON-(ON) toggle switch, 1/4" shaft, solder lugs	7
	SP 12 pos rotary switch, adjustable stop, PCB mount	1
<i>(The following items are contained inside the package marked SBC6120RC-LED)</i>		
	Red LED, T1-3/4 high efficiency	29
	LED spacers	29
<i>(The following items are contained inside the package marked SBC6120RC-VT6)</i>		
D2, D3	1N4148 Switching diode (DO35)	2
R6	10K 5% 1/8W metal film resistor	1
J2	2 pin 0.1" female header	1
J4	10 pin 0.1" female header	1
	0.5" 4-40 hex standoffs, machine screws and lock washers	4

IMPORTANT!

Either a 74HC368 or a 74HC366 may be supplied for U27, U28, U29 and U30. While these are not normally interchangeable, either part will work in this circuit.

Only two SRAMs, U8 and U9, are supplied with the kit, for a total of 512KW of memory. U10 and U11 are not included, nor are the two associated DCAPS.

Unless the SBC6120-RC is purchased with the VT6 kit, parts D2, D3, R6, J2 and J4 are unused and are not supplied. **IMPORTANT - You MUST install a wire jumper at D2!**

R3, R4 and R5 are not used, not supplied, and should not be installed.

No connector is included for the 40 pin header at J5. This connector is unused.

No written instructions are included with your kit. Please be sure to visit our wiki documentation page, <http://www.SpareTimeGizmos.com/wdoc> for assembly instructions.

You may return any kit for a full refund, less the shipping charges, **provided that it is unopened and unused**. Unless defective, parts and kits **cannot be returned once construction is started**. Look it over carefully and be sure it's what you want *before* you start soldering.



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If any part we ship you is defective, we'll replace it provided that you return it with in 90 days of purchase. This doesn't cover parts that are damaged by improper construction techniques, poor soldering or static electricity, so if you put that IC in backwards and blow it up, please don't send it back to us! All the expensive and hard to get ICs such as **CPUs, memories, PLDs, EPROMs, etc. are 100% tested by Spare Time Gizmos before they are shipped**, and we know those are OK when they leave our door. If one of the other parts doesn't work and you don't think it's your fault, then we'll take your word for it and replace it for you.