

**SBC6120-RBE Edition 'Choose Your Own Build' BOM - 5/10/2018**

Please report any errors or omissions in this tool to [abingham@gmail.com](mailto:abingham@gmail.com)

**How to use:**

Pick the drop-down options that you want, then press the 'generate BOM' button. Current BOM will be cleared & a new BOM created.

If you prefer not to run Excel macros, you can manually select the items desired from the 'Raw Data' tab

**Links to Octopart BOMs with pricing from vendors other than Digi-Key are on the 'Raw Data' tab**

**SBC-6120 RBC Edition BOM Options (click highlighted yellow cells for drop-downs)**

1	Socket Type	Machine Tool
2	POST Display Type	RBC Style (Individual LEDs)
3	CF->IDE Power on IDE Pin 20	Yes
4	Include Serial cable parts	Yes
5	Include unprogrammed GALs & EEPROMS	Yes
6	HD1-6120 Clock Speed Oscillators	5 & 8 MHz

**Note - You will still need an HD1-6120, HD3-6402/IM6402, 5V Power Supply w/Molex Connection, and CF Card & CF -> IDE Adapter or Hard Drive**

Line	Schematic Reference Designator(s)	Manufacturer Part Number	Digi-key Part Number	Description	Cost Ea	Qty	Cost Line
1	R15, R10, R6, R5, R4, R3, R2, R1	CF18JT10K0	CF18JT10K0CT-ND	10k Ohm $\pm$ 5% 1/8W Through Hole Resistor	0.1	8	0.8
2	R8	CF18JT4K70	CF18JT4K70CT-ND	4.7k Ohm $\pm$ 5% 1/8W Through Hole Resistor	0.1	1	0.1
3	D1	1N4734A_T50R	1N4734A_T50RCT-ND	Zener Diode 5.6V 1W $\pm$ 5% Through Hole DO-41	0.24	1	0.24
4	F1	0473.750MRT1L	F2340CT-ND	Fuse Board Mnt 500mA 125VAC/VDC	1.65	1	1.65
5	SKT U23, SKT U1	1108800	A463-ND	4 Position Socket, Half Size For use with Oscillators 8-DIP, 4 Lead (Half Size)	0.99	2	1.98
6	J17, J10	61300211121	732-5315-ND	2 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold	0.16	2	0.32
7	J15	61300421121	732-5294-ND	4 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold	0.43	1	0.43
8	J14, J13, J12, J11 (combined)	61300821121	732-5296-ND	8 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold	0.63	1	0.63
9	U99	DS1233D-10+	DS1233D-10+-ND	Supervisor Open Drain or Open Collector 1 Channel TO-92-3	1.56	1	1.56
10	J1	15244441	WM6988-ND	4 Positions Header, Shrouded Connector 0.200" (5.08mm) Through Hole, Right Angle Tin	1.24	1	1.24
11	J2	302-R401	ED10541-ND	40 Positions Header, Shrouded Connector 0.100" (2.54mm) Through Hole, Right Angle Gold	0.99	1	0.99
12	J3	302-R101	ED10533-ND	10 Positions Header, Shrouded Connector 0.100" (2.54mm) Through Hole, Right Angle Gold	0.44	1	0.44
13	J4	PPTC252LFBN-RC	S7093-ND	50 Position Header Connector 0.100" (2.54mm) Through Hole Tin	2.93	1	2.93
14	S1	EVQ-PF206K	P12210S-ND	Switch Tactile SPST-NO 0.02A 15V	0.22	1	0.22
15	C1-C21	K104K15X7RF5TL2	BC1084CT-ND	Cap Cer 0.1uF 50V X7R Radial	0.15	21	3.15
16	C29-C32	TAP105M025SCS	478-9318-ND	Cap Tant 1uF 25V 20% Radial	0.62	5	3.1
17	C37	TAP476K016SCS	478-1911-ND	Cap Tant 47uF 16V 10% Radial	2.67	1	2.67
18	U17	MAX232N	296-1402-5-ND	IC Dual EIA-232 Driver/Receiver 16-DIP	1.09	1	1.09
19	U15	SN74HC4040N	296-8324-5-ND	IC Async Binary Counter 16-DIP	0.65	1	0.65
20	U19	SN74HC05N	296-1568-5-ND	IC Hex Inverter W/OD 14-DIP	0.5	1	0.5
21	U22, U20	SN74HC74N	296-1602-5-ND	IC D-Type Pos Trg Dual 14-DIP	0.46	2	0.92
22	U21	SN74HC175N	296-8257-5-ND	IC D-Type Pos Trg Sngl 16-DIP	0.48	1	0.48
23	U3, U2	SN74HC373N	296-1591-5-ND	IC Oct Transp D Latch 20-DIP	0.51	2	1.02
24	U13	SN74HC365N	296-8304-5-ND	IC Buff/Dvr Tri-St 6 Bit 16-DIP	0.58	1	0.58
25	U14	SN74HC245N	296-1584-5-ND	IC Bus Transceiver 8 Bit 20-DIP	0.51	1	0.51
26	U24	SN74HC04N	296-1566-5-ND	IC Hex Inverter 14-DIP	0.52	1	0.52
27	U18	CP82C55AZ	CP82C55AZ-ND	IC I/O Expander 24 Bit 40-DIP	6.74	1	6.74
28	U23	MXO45HS-3C-4M9152	CTX763-ND	OSC XO 4.9152MHz HCMOS TTL Pin	2.07	1	2.07
29	U6, U7	AS6C1008-55PCN	1450-1017-ND	IC SRAM 1MBit 55ns 32-DIP	2.53	2	5.06
30	Jumper J10, J11, J14, J15x2	969102-0000-DA	3M9580-ND	Shunt Jumper .1" Black Gold	0.1	1	0.1
31	U12, U11	ATF22V10CQZ-20PU	ATF22V10CQZ-20PU-ND	IC PLD 10MC 20ns 24-DIP	2.3	2	4.6
32	U4	ATF16V8BQL-15PU	ATF16V8BQL-15PU-ND	IC PLD 8MC 15ns 20-DIP	1.09	1	1.09
33	U10, U9	AT28C256-15PU	AT28C256-15PU-ND	IC EEPROM 256KBit 150ns 28-DIP	6.52	2	13.04

34	U1 (5 Mhz)	MXO45HST-3C-5M0000	CTX800-ND	OSC XO 5.000MHz HCMOS TTL PC Pin	2.07	1	2.07
35	U1 (8 Mhz)	MXO45HS-3C-8M0000	CTX743-ND	OSC XO 8.000MHz HCMOS TTL PC Pin	2.07	1	2.07
36	R14, R13, R12, R11	CF18JT150R	CF18JT150RCT-ND	150 Ohm $\pm$ 5% 1/8W Through Hole Resistor	0.1	4	0.4
37	D5, D4, D3, D2	WP113YDT	754-1203-ND	Yellow 588nm LED Indication - Discrete 2.1V Radial	0.38	4	1.52
38	J16	61300211121	732-5315-ND	2 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold	0.16	1	0.16
39	C22	USR1E470MDD	493-6030-ND	Cap Alum 47UF 20% 25V Radial	0.26	1	0.26
40	F2	0697H0315-01	507-1901-ND	Fuse Brd Mnt 315mA 350VAC 100VDC	0.31	1	0.31
41	Jumper J16	969102-0000-DA	3M9580-ND	Shunt Jumper .1" Black Gold	0.1	1	0.1
42	SKT U24, SKT U22, SKT U20, SKT U19	SA143000	ED3014-ND	Machine Tool Conn IC DIP Socket 14Pos 0.3"	0.72	4	2.88
43	SKT U21, SKT U17, SKT U15, SKT U13	SA163000	ED3016-ND	Machine ToolConn IC DIP Socket 16Pos 0.3"	0.75	4	3
44	SKT U14, SKT U4, SKT U3, SKT U2	SA203000	ED3020-ND	Machine Tool Conn IC DIP Socket 20Pos 0.3"	0.93	4	3.72
45	SKT U12, SKT U11	SA243000	ED3022-ND	Machine Tool Conn IC DIP Socket 24Pos 0.3"	1.12	2	2.24
46	SKT U10, SKT U9	SA286000	ED3028-ND	Machine Tool Conn IC DIP Socket 28Pos 0.6"	1.3	2	2.6
47	SKT U7, SKT U6	SA326000	ED3030-ND	Machine Tool Conn IC DIP Socket 32Pos 0.6"	1.39	2	2.78
48	SKT U18, SKT U16, SKT U5	SA406040	ED3033-ND	Machine Tool Conn IC DIP Socket 40Pos 0.6"	1.97	3	5.91
49	Serial Cable	A-DSF-09LP111/FP	HHMP09H-ND	9 Pin D-Sub Male Connector, IDC	1.81	1	1.81
50	Serial Cable	AWG28-9/G/300	AE09M-5-ND	9 Conductor Flat IDC Cable 5' Length	2.69	1	2.69
51	Serial Cable	AWP-10-7240-T	HHKC10H-ND	10 Pin Rectangular Header Connector, Female Sockets, IDC, w/Key	0.48	1	0.48
						Total	96.42