








8080 Board Parts List

Copomponent	Qty	Jameco	DigiKey	Notes
S-100 8080 PCB	1	N/A	N/A	Contact Josh
R1	1		D4AA23-ND	100 Ohn 1/4 Watt, 5% resistor Brown-Black-Brown
R2-3	1		CF14JT150KCT-ND	330 Ohm Carbon Fiber Resistor, 1/4 Watt, 5% Orange-Orange-Brown
R4-6	2		CF14JT1K00CT-ND	1K Ohm Carbon Fiber Resistor, 1/4 Watt, 5% Brown-Black-Red
R8-10	2		CF14JT560RCT-ND	2K Ohm Carbon Fiber Resistor, 1/4 Watt, 5% Red-Black-Red
R11-12	2			10K Ohm Carbon Fiber Resistor, 1/4 Watt, 5% Brown-Black-Orange
R14-15	2		CF14JT910RCT-ND	4.7K Ohm Carbon Fiber Resistor, 1/4 Watt, 5% Yellow-Violet-Red
RP2	1		4310R-1-473LF-ND	47K Ohm Resistor network - 10 pins
RP1,RP4-RP7	5		4610X-1-472LF-ND	4.7K Ohm Resistor network - 10 pins

RP3			47K Ohm Resistor network - 9 pins (ECO #3)
	1	4609X-101-473LF-ND	You can use the 10 pin version and cut one pin off
C1			
	1	705556	39pf Ceramic Disk Capacitor
C12,14	2	493-1397-ND	22uf Electrolytic Capacitor
C13	1	493-1397-ND	100uf Electrolytic Capacitor
C15-19			3.3uf Tantalum Capacitor.
	5	399-3541-ND	3.3 may be a bit overrated. You can go lower. Down to .33uf according to John
Cxx	43	BC110ICT-ND	0.1uf Ceramic Capacitor
SD,ShadowROM			
	2	LTL-307G 160-1702-ND	LED 565mm T1 3/4 Green (Any color will do. Your choice)
	3	326596 HS115-ND	TO-220 Heat Sink Low Profile
	1	Mica Thermal Spacer (mouser.com)	Mounting Hardware MICA INSUL TO-220. Keystone Electronics 4672
P1-P6	4	A113801-ND	10 position Pin header
JP8-10	3	952-1385-ND	16 position Pin header
JP1-7			
	7	609-3461-ND	3 position Pin header

Misc	23		Mini Jumpers for Pin Headers
P8	1		16 pin IC socket
P7			



1	WM4657-ND	8 Pin Molex pin header 26-64-4080
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SD1



1	609-3856-1-ND	SD Socket
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DD1



1		1N914 Diode
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7805, TO-220, 5V regulator

Use the 7805C 1.5A version

A7



1	BA17805T-ND	
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A3,B7



2		78L12, TO-92, 12V regulator
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A4



1		79L12, TO-92, 12V regulator
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B8



1		79L05, TO-92, 5V regulator
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I2

1	497-7288-ND	78L33, TO-92, 3.3 V Regulator
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A2,B2,C2	3		1489 RS-232 Chip Receivers
B3,C3	2		1488 RS-232 Chip Driver
			Intel 8250 UART
A5,A6	2		Possible substitution is the 16450 . It's suppose to be pin compatible to the 8250
D1	1		74LS20
D2	1		74LS30
D4-6	2		74LS138
D5	1		74LS139
C7,E4,H5	3		74LS04
C8,E2	2		74LS02
D8,E1,H5	4		74LS00
E6	1		74LS390
E7	1		8224 Clock Generator
E5	1		74LS10
E8-J8	6		74LS245
F1	1		27C256 32K EPROM
F3,F5	2	913-AS6C62256A-70PCN	51256 32K Static RAM
F7	1		Intel 8080A CPU
H4	1		74LS299
I4	1		74LS27
I5	1		74LS74
H7	1		8T97 or 74LS367
J2	1		74HCT245
			Intel 8212, 8-bit I/O Port
J3,J5,J7	3		SN74S412 can be substituted for i8212

X1



1	X1036-ND	18.432 Mhz Crystal
19		14 Pin IC sockets
6		16 Pin IC sockets
8		20 Pin IC sockets
3		24 Pin IC sockets, 0.6"
3		28 Pin IC sockets, 0.6"
3		40 Pin IC sockets, 0.6"
2	S9597-ND	9 Pin connector, IDC
2	MSC10A-ND	10 Pin connector, IDC
1		Ribbon Cable