

**Note: Part numbers, manufacturers, and vendors are typical of what is supplied. Substitutions may be made based on availability at time of ordering.**

## **EXPANSION CARD**

<b><u>Qty</u></b>	<b><u>Description</u></b>	<b><u>Location</u></b>	<b><u>Manufacturer</u></b>	<b><u>Manufacturer #</u></b>	<b><u>Vendor</u></b>	<b><u>Vendor #</u></b>
<b><u>Integrated Circuits</u></b>						
1	62256 type 32Kx8 Static RAM	U12	Cypress	CY62256NL-70PC	Digikey	2156-CY62256NL-70PC-ND
1	CD4001	U5	TI	CD4001BE	Digikey	296-2028-ND
1	CD4002	U1	TI	CD4002BE	Digikey	296-2029-5-ND
1	CD4013	U9	TI	CD4013BE	Digikey	296-2033-5-ND
2	CD4023	U3-4	TI	CD4023BE	Digikey	296-2041-ND
1	CD4048	U14	TI	CD4048BE	Digikey	296-2054-5-ND
1	CD4049	U6	TI	CD4049UBE	Digikey	296-2055-5-ND
1	CD4071	U10	TI	CD4071BE	Digikey	296-2062-ND
1	CD4073	U2	TI	CD4073BE	Digikey	296-2064-ND
1	CD4503	U7	TI	CD4503BE	Digikey	296-2071-5-ND
1	CD40175 (or 74C175 or 74HC175)	U8	TI	CD40175BE	Digikey	296-14251-5-ND
1	CD40373 (or 74C373 or 74HC373)	U13	TI	SN74HC373N	Digikey	296-1591-5-ND
1	RTC-72421	U11	Epson	RTC-72421A	Nexxon	RTC72421A
<b><u>Discrete Components</u></b>						
1	Resistor 1/4 watt 4.7K	R6	Stackpole	CF14JT4K70	Digikey	CF14JT4K70CT-ND
2	Resistor 1/4 watt 22K	R2-3	Stackpole	CF14JT470K	Digikey	CF14JT470KCT-ND
6	Resistor 1/4 watt 47K	R1,4-5,7-9	Stackpole	CF14JT47K0	Digikey	CF14JT47K0CT-ND
5	Switching Diode 1N4148	D1-5	ON Semi	1N4148	Digikey	1N4148FS-ND
2	Zener Diode 3.9v 1N4622	D6-7	Microchip	1N4148	Digikey	1N4622-1-ND
4	Ceramic capacitor 0.1uF radial 0.2"	C1-4	Vishay	K104K10X7RF5UH5	Digikey	BC2665CT-ND
2	2N2907 Transistor TO-92	Q2-3	ON Semi	PN2907ABU	Digikey	PN2907ABUFS-ND
1	2N3904 Transistor TO-92	Q1	ON Semi	2N3904TFR	Digikey	2N3904D26ZCT-ND
1	BR1225 coin cell 3v		Panasonic	BR1225	Digikey	P183-ND
<b><u>Interconnect and Mechanical</u></b>						
1	Socket 20 pin 0.1" long tail		Samtec	SSQ-120-03-T-S	Digikey	SAM1206-20-ND
1	Straight dual row header 21 position		Sullins	PREC021DAAN-RC	Digikey	S2012EC-21-ND
19	Straight header 3 pins 0.1"		Sullins	PREC003SAAN-RC	Digikey	S1012EC-03-ND
1	Straight header 9 pins 0.1"		Sullins	PREC009SAAN-RC	Digikey	S1012EC-09-ND
22	Jumper shunts 0.1"		Sullins	STC02SYAN	Digikey	S9000-ND
1	Coin cell retainer 12mm		Keystone	3001	Digikey	36-3001-ND
4	0.5 inch standoff spacer		RAF	4505-440-AL-7	Jameco	393474
<b><u>Integrated Circuit Sockets</u></b>						
1	DIP socket 28 pin 0.6"	U12	On Shore	ED28DT	Digikey	ED3052-5-ND
1	DIP socket 20 pin 0.3"	U13	On Shore	ED20DT	Digikey	ED3054-5-ND
1	DIP socket 18 pin 0.3"	U11	On Shore	ED18DT	Digikey	ED3047-5-ND
4	DIP socket 16 pin 0.3"	U6-8,14	On Shore	ED16DT	Digikey	ED3046-5-ND
7	DIP socket 14 pin 0.3"	U1-5,9-10	On Shore	ED14DT	Digikey	ED3045-5-ND
<b><u>Circuit Board and Expansion</u></b>						
1	Circuit Board		Madole		JLPCB	
1	Socket 39 pin 0.1" long tail		Samtec	SSQ-139-03-T-S	Digikey	SAM1206-39-ND