

Sheet1

Boards						
Card	Mouser PN	Description	Cost Each	Number	Ext. Price	Total
1006-Rs232	595-TRS232ECN	RS232 Intf Chip	\$1.23	1	\$1.23	
	810-FK18X5R1E105K	1 uF capacitors	\$0.28	5	\$1.40	
	523-L77SDE09SA4CH4R	DB9 Female throughhole connector	\$0.76	1	\$0.76	
	571-6404544	1x4 pin 100 mil header	\$0.18	1	\$0.18	
	PCB board	Comes with MaxPwr board	\$0.00	1	\$0.00	
	Board total		\$3.57	1		\$3.57
1001-SolDrv	841-MC9S08SE8CRL	MC9S08SE8 DIP processor	\$2.80	1	\$2.80	
	649-78548-406HLF	2x3 pin 100 mil debug header	\$0.34	1	\$0.34	
	299-3.3K-RC	3.3K through hole resistors	\$0.10	2	\$0.20	
	810-FK18X5R0J106M	10 uF capacitors	\$0.40	1	\$0.40	
	571-6404562	1x2 pin 100 mil header	\$0.07	10	\$0.69	
	534-1285	187 spade terminals	\$0.12	10	\$1.23	
	571-6404544	1x4 pin 100 mil header	\$0.18	2	\$0.36	
	942-IRLN540PBF	IRL540 Hi current MOSFET	\$1.03	2	\$2.06	
	942-IRLN520PBF	IRL520 Lo current MOSFET	\$0.73	6	\$4.35	
	PCB board		\$2.00	1	\$1.00	
		Mounting hardware	\$0.25	3	\$0.75	
	Board total		\$14.18	2		\$28.36
1003-InpBrd	841-MC9S08SE8CRL	MC9S08SE8 DIP processor	\$2.80	1	\$2.80	
	649-78548-406HLF	2x3 pin 100 mil debug header	\$0.34	1	\$0.34	
	299-3.3K-RC	3.3K through hole resistors	\$0.10	2	\$0.20	
	810-FK18X5R0J106M	10 uF capacitors	\$0.40	1	\$0.40	
	571-6404562	1x2 pin 100 mil header	\$0.07	16	\$1.10	
	571-6404544	1x4 pin 100 mil header	\$0.18	2	\$0.36	
	PCB board		\$2.00	1	\$1.00	
		Mounting hardware	\$0.25	3	\$0.75	
	Board total		\$6.95	2		\$13.91
1011-IncandDrv	511-STPIC6D595B1R	8 bit shift register, open collector	\$0.74	1	\$0.74	
	810-FK18X5R1E105K	1 uF capacitors	\$0.28	1	\$0.28	
	534-1285	187 spade terminals	\$0.12	2	\$0.25	

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	603-MFR-25FRF5210K	10K through hole resistors	\$0.02	9	\$0.14	
	512-BS170D27Z	N Channel MOSFET	\$0.10	8	\$0.83	
	571-6404546	1x6 pin 100 mil header	\$0.19	2	\$0.38	
	571-6404562	1x2 pin 100 mil header	\$0.07	4	\$0.28	
	PCB board		\$1.00	1	\$1.00	
		Mounting hardware	\$0.25	3	\$0.75	
	Board total		\$4.64	8		\$37.14
1010-PiShield	595-SN74LVC245AN	Octal shift register	\$0.59	1	\$0.59	
	534-1285	187 spade terminals	\$0.12	3	\$0.37	
	603-MFR-25FRF5210K	10K through hole resistors	\$0.02	1	\$0.02	
	512-BS170D27Z	N Channel MOSFET	\$0.10	1	\$0.10	
	571-6404544	1x4 pin 100 mil header	\$0.18	1	\$0.18	
	571-6404562	1x2 pin 100 mil header	\$0.07	1	\$0.07	
	810-FK18X5R1E105K	1 uF capacitors	\$0.28	1	\$0.28	
	872-920-0134-01	Header to interface to Pi	\$0.75	1	\$0.75	
	PCB board	Comes with MaxPwr board	\$0.00	1	\$0.00	
	Board total		\$2.36	1		\$2.36
1009-MaxPwr	534-1285	187 spade terminals	\$0.12	11	\$1.35	
	571-6404562	1x2 pin 100 mil header	\$0.07	4	\$0.28	
	603-MFR-25FRF52100K	100K through hole resistors	\$0.02	3	\$0.05	
	538-39-29-9243	2x12 PC Power connector	\$1.94	7	\$13.58	
	PCB board		\$3.00	1	\$3.00	
	Board total		\$18.25	1		\$18.25
Board Total						\$103.59

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Connectors						
1006-Rs232	538-22-01-2047	1x4 100 mil housing	\$0.13	1	\$0.13	
	538-08-52-0123	100 mil terminals	\$0.09	4	\$0.37	
	Board total		\$0.50	1		\$0.50
1001-SolDrv	538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	
	538-08-52-0123	100 mil terminals	\$0.09	16	\$1.47	
	538-22-01-2027	1x2 100 mil housing	\$0.06	8	\$0.48	
	1592-2237	Spade connectors	\$0.08	10	\$0.80	
	Board total		\$3.02	2		\$6.04
1003-InpBrd	538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	
	538-22-01-2027	1x2 100 mil housing	\$0.06	16	\$0.96	
	538-08-52-0123	100 mil terminals	\$0.09	24	\$2.21	
	Board total		\$3.43	2		\$6.87
1011-IncandDrv	538-22-01-2027	1x2 100 mil housing	\$0.06	4	\$0.24	
	538-22-01-2067	1x6 100 mil housing	\$0.18	2	\$0.36	
	538-08-52-0123	100 mil terminals	\$0.09	20	\$1.84	
	1592-2237	Spade connectors	\$0.08	2	\$0.16	
	Board total		\$2.60	8		\$20.83
1010-PiShield	1592-2237	Spade connectors	\$0.08	3	\$0.24	
	538-22-01-2027	1x2 100 mil housing	\$0.06	1	\$0.06	
	538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	
	538-08-52-0123	100 mil terminals	\$0.09	10	\$0.92	
	Board total		\$1.49	1		\$1.49
1009-MaxPwr	538-39-01-2240	2x12 PC Power Housing	\$0.96	1	\$0.96	
	538-39-00-0208	PC Power crimps	\$0.12	25	\$3.00	
	806-SX1100-B	1x2 shunts	\$0.02	4	\$0.09	
	538-22-01-2027	1x2 100 mil housing	\$0.06	1	\$0.06	
	538-08-52-0123	100 mil terminals	\$0.09	2	\$0.18	
	Board total		\$4.29	1		\$4.29

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Extras	538-08-52-0123	100 mil terminals	\$0.09	20	\$1.84	
	1592-2237	Spade connectors	\$0.08	10	\$0.80	
	538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	
	538-22-01-2027	1x2 100 mil housing	\$0.06	4	\$0.24	
	Extra total		\$3.15	1		\$3.15
Connector Total						\$43.16
Total						\$146.75