

SolBrdG2

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
538-35317-0620	2x3 pin 4.2mm Molex header	\$0.16	1	\$0.16	10	\$0.15	\$0.15	100
512-FQP13N06L	FQP13N06L MOSFET	\$0.67	4	\$2.67	10	\$0.43	\$1.72	100
603-CFR-12JR-5210K	10K Resistor	\$0.02	4	\$0.08	100	\$0.02	\$0.08	100
		Comp Cost = (incl. Tax)		\$3.22		Comp Cost = (incl. Tax)	\$2.18	
Connectors								
538-22-01-2047	1x4 100 mil housing	\$0.13	1	\$0.13	10	\$0.11	\$0.11	100
538-08-50-0136	100 mil terminals	\$0.06	4	\$0.25	100	\$0.06	\$0.25	100
538-39-01-2065	2x3 pin 4.2mm Molex housing	\$0.52	1	\$0.52	10	\$0.45	\$0.45	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	6	\$0.81	10	\$0.10	\$0.60	100
		Comp Cost = (incl. Tax)		\$1.82		Comp Cost = (incl. Tax)	\$1.50	
		Wing Cost =		\$5.04		Wing Cost =	\$3.68	

InputOnly

Components		Note: This does not require a board but is simply a connector soldered to the PSoC 4200 board.						
		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
		Comp Cost = (incl. Tax)		\$0.29		Comp Cost = (incl. Tax)		\$0.25
Connectors								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
		Comp Cost = (incl. Tax)		\$0.79		Comp Cost = (incl. Tax)		\$0.76
		Wing Cost =		\$1.07		Wing Cost =		\$1.01

IncandBrdG2

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
512-2N7000TA	60V, 200mA N Channel MOSFET	\$0.09	8	\$0.75	100	\$0.09	\$0.75	100
603-CFR-12JR-5210K	10K Resistor	\$0.02	8	\$0.15	100	\$0.02	\$0.15	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$1.37		Comp Cost = (incl. Tax)	\$1.31	
Connectors								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)	\$1.27	
		Wing Cost =		\$2.79		Wing Cost =	\$2.59	

InpBrdG2

Components		Low Quantity			
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10
571-6404546	1x6 pin 100 mil header (shrouded)	\$0.20	1	\$0.20	10
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	3	\$0.04	100
		Comp Cost = (incl. Tax)		\$0.39	
Connectors					
538-22-01-2067	1x6 100 mil housing	\$0.18	1	\$0.18	10
538-22-01-2047	1x4 100 mil housing	\$0.13	1	\$0.13	10
538-08-52-0123	100 mil terminals	\$0.12	10	\$1.20	100
		Comp Cost = (incl. Tax)		\$1.61	
		Wing Cost =		\$2.00	

IntfBrdG2

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-404HLF	1x4 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
649-68000-403HLF	1x3 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	87	\$0.00	\$0.00	174
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	2	\$0.03	100	\$0.01	\$0.03	100
855-M20-9980446	2x4 pin 100 mil header	\$0.20	3	\$0.61	10	\$0.18	\$0.53	100
SX1100-B	100 mil shunt	\$0.02	3	\$0.07	25	\$0.02	\$0.07	25
749-9908-312	Standoffs for mounting	\$0.04	4	\$0.14	100	\$0.04	\$0.14	100
	1x40 pin 100 mil header (Bought in bulk)	\$0.50	1	\$0.50	10	\$0.30	\$0.30	100
		Comp Cost = (incl. Tax)		\$1.56		Comp Cost = (incl. Tax)		\$1.24
Connectors								
	2x4 Ribbon crimp connector (FC-8P) (Bought in bulk)	\$0.20	2	\$0.40	100	\$0.20	\$0.40	100
538-08-50-0136	100 mil terminals (extras for bad crimps)	\$0.06	5	\$0.31	100	\$0.06	\$0.31	100
538-39-00-0039	4.2 mm Molex terminals (extras for bad crimps)	\$0.14	3	\$0.41	10	\$0.10	\$0.30	100
		Comp Cost = (incl. Tax)		\$1.18		Comp Cost = (incl. Tax)		\$1.07
		Wing Cost =		\$2.75		Wing Cost =		\$2.31

IncandSMG2Low

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	8	\$0.34	100	\$0.04	\$0.34	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$0.78		Comp Cost = (incl. Tax)		\$0.72
Connectors								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)		\$1.27
		Wing Cost =		\$2.20		Wing Cost =		\$1.99

IncandSMG2Hi

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	16	\$0.69	100	\$0.04	\$0.69	100
603-RC0805FR-0733KL	33K Resistor SM 0805	\$0.01	8	\$0.05	100	\$0.01	\$0.05	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$1.20		Comp Cost = (incl. Tax)		\$1.13
Connectors								
538-22-01-2047	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-52-0123	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)		\$1.27
		Wing Cost =		\$2.61		Wing Cost =		\$2.41

PerMachine

Components		Low Quantity				High Quantity		
		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
Mouser Part#								
538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	10	\$0.11	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
523-191-2801-116FT	Ribbon Cable/split for 10'	\$0.77	5	\$3.85	1	\$0.43	\$2.15	100
		Total Cost = (incl. Tax)		\$4.90		Comp Cost = (incl. Tax)		\$3.04

PartsListGen

Board Type	Num Brds			
Num Sol Brds =	144			
Num Input Only =	206			
Incand TH Brds =	107			
Intf Brds =	126			
Incand SM (Low) Brds =	26			
Incand SM (High) Brds =	0			
Num Machines =	22			
Components	Description	Price	Qty	Ext. Price
Mouser Part#				
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	270	\$32.94
538-35317-0620	2x3 pin 4.2mm Molex header	\$0.16	144	\$23.33
512-FQP13N06L	FQP13N06L MOSFET	\$0.67	576	\$384.77
603-CFR-12JR-5210K	10K Resistor	\$0.02	1432	\$27.21
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	339	\$91.53
512-2N7000TA	60V, 200mA N Channel MOSFET	\$0.09	856	\$80.46
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	133	\$15.83
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	252	\$3.28
855-M20-9980446	2x4 pin 100 mil header	\$0.20	378	\$77.11
SX1100-B	100 mil shunt	\$0.02	378	\$8.32
749-9908-312	Standoffs for mounting	\$0.04	504	\$18.14
	1x40 pin 100 mil header (Bought in bulk)	\$0.50	126	\$63.00
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	208	\$8.94
603-RC0805FR-0733KL	33K Resistor SM 0805	\$0.01	0	\$0.00
727-CY8CKIT-049-42XX	Cypress PSOC 4200	\$3.98	126	\$501.48
		Est. Cost =		\$1,419.86
Connectors	Description			
538-22-01-2047	1x4 100 mil housing	\$0.13	188	\$25.00
538-08-50-0136	100 mil terminals	\$0.06	4094	\$253.83
538-39-01-2065	2x3 pin 4.2mm Molex housing	\$0.52	144	\$74.88
538-39-00-0039	4.2 mm Molex terminals	\$0.14	1508	\$203.58

PartsListGen

538-22-01-2087	1x8 100 mil housing	\$0.24	339	\$82.38
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	133	\$43.36
	2x4 Ribbon crimp connector (FC-8P) (Bought in bulk)	\$0.20	252	\$50.40
523-191-2801-116FT	Ribbon Cable/split for 10'	\$0.77	110	\$84.70
		Est. Cost =		\$869.26

SS3 Board Cost

Board Name	Comp Cost	Conn Cost	Qty	Ext. Cost	No Conn
Solenoid Boards	\$3.22	\$1.82	3	\$15.12	\$9.66
Input Only Boards	\$0.29	\$0.79	4	\$4.29	\$1.15
Incandescent Boards	\$1.37	\$1.42	0	\$0.00	\$0.00
Incandescent SM Low	\$0.78	\$1.42	0	\$0.00	\$0.00
Incandescent SM Hi	\$1.20	\$1.42	6	\$15.68	\$7.17
Interface Boards	\$1.56	\$1.18	4	\$10.99	\$6.25
PSoC 4200 Boards	\$4.25	\$0.00	4	\$17.00	\$17.00
Per Machine	\$4.90	\$0.00	1	\$4.90	\$4.90
Mouser Shipping	\$5.00	\$0.00	1	\$5.00	\$5.00
Board Cost	\$20.00	\$0.00	1	\$20.00	\$20.00
Total Cost				\$92.98	\$71.13

Sultan Board Cost

Board Name	Comp Cost	Conn Cost	Qty	Ext. Cost	No Conn
Solenoid Boards	\$3.22	\$1.82	5	\$25.20	\$16.11
Input Only Boards	\$0.29	\$0.79	5	\$5.36	\$1.43
Incandescent Boards	\$1.37	\$1.42	0	\$0.00	\$0.00
Incandescent SM Low	\$0.78	\$1.42	8	\$17.58	\$6.23
Incandescent SM Hi	\$1.20	\$1.42	0	\$0.00	\$0.00
Interface Boards	\$1.56	\$1.18	5	\$13.73	\$7.81
PSoC 4200 Boards	\$4.25	\$0.00	5	\$21.25	\$21.25
Per Machine	\$4.90	\$0.00	1	\$4.90	\$4.90
Mouser Shipping	\$5.00	\$0.00	1	\$5.00	\$5.00
Board Cost	\$20.00	\$0.00	0	\$0.00	\$0.00
Total Cost				\$93.02	\$62.73

Kickstarter

	Solenoid Wing		Intf Wing		Incand Wing		IncandSM Wing (Low Side)		Input Hdr Connectors		Extra Boards		Num Machines		Total	Handling/ Added Shipping	Total	Paid	PSOC 4200 Cost
Name	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price		10.00%			
RO	12	\$44.12	16	\$36.96	24	\$62.04	0	\$0.00	28	\$28.29	0	\$0.00	3	\$9.13	\$180.54	\$18.05	\$198.59		\$64.00
PP	12	\$44.12	12	\$27.72	16	\$41.36	0	\$0.00	20	\$20.21	20	\$15.00	2	\$6.09	\$154.49	\$15.45	\$169.94		\$48.00
KB	30	\$110.29	21	\$48.51	9	\$23.27	0	\$0.00	24	\$24.25	40	\$30.00	4	\$12.17	\$248.48	\$24.85	\$273.33	x, x	\$84.00
JW	9	\$33.09	6	\$13.86	8	\$20.68	0	\$0.00	7	\$7.07	3	\$2.25	1	\$3.04	\$79.99	\$8.00	\$87.99	x, x	\$24.00
JF	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
MC1	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
BM	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
MH	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
WS	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	no	\$24.00
EL	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
SS	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
JG	9	\$33.09	9	\$20.79	0	\$0.00	2	\$3.98	25	\$25.26	0	\$0.00	2	\$6.09	\$89.20	\$8.92	\$98.12	x, x	\$36.00
JR	18	\$66.17	18	\$41.58	24	\$62.04	0	\$0.00	30	\$30.31	40	\$30.00	3	\$9.13	\$239.23	\$23.92	\$263.16	x, x	\$72.00
MP	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
TM	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
AH	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
JJ	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
BB	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
AG	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
MI	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
JK	12	\$44.12	6	\$13.86	2	\$5.17	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$76.29	\$7.63	\$83.92	x, x	\$24.00
BL	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
SB	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
MC2	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
	204		190		219		2						Total =	\$2,253.89			\$2,479.28		\$760.00

NumPopBrds

	IncandSM														
	Solenoid					Wing	Input Hdr				Num	Num PSOC			
	Wing					(Low Side)	Connectors				Machines	4200	Paid		
Name	Num	Intf	Wing	Incand	Wing	Num	Num	Num	Num	Num	Num	Num	Num	Num	Num
RO	12	0	16	0	24	0	0	0	28	0	3	0	16	0	0
PP	12	0	12	0	16	0	0	0	20	0	2	0	12	0	0
KB	30	30	21	21	1	1	8	8	24	24	4	4	21	21	x, x
JW	9	9	6	6	8	8	0	0	7	7	1	1	6	6	x, x
JF	6	6	6	6	0	0	8	8	10	10	1	1	6	6	x, x
MC1	6	6	6	6	0	0	8	8	10	10	1	1	6	6	x, x
BM	6	0	6	0	8	0	0	0	10	0	1	0	6	0	0
MH	6	0	6	0	8	0	0	0	10	0	1	0	6	0	0
WS	6	0	6	0	8	0	0	0	10	0	1	0	6	0	no
EL	6	0	6	0	8	0	0	0	10	0	1	0	6	0	0
SS	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
JG	9	9	9	9	0	0	2	2	25	25	2	2	9	9	x, x
JR	18	18	18	18	24	24	0	0	30	30	3	3	18	18	x, x
MP	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
TM	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
AH	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
JJ	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
BB	6	0	6	0	8	0	0	0	10	0	1	0	6	0	0
AG	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
MI	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
JK	12	12	6	6	2	2	0	0	10	10	1	1	6	6	x, x
BL	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
SB	6	6	6	6	8	8	0	0	10	10	1	1	6	6	x, x
MC2	6	0	6	0	8	0	0	0	10	0	1	0	6	0	0
	144		126			107		26	206		22		126		

Money for Parts = \$2,057.00