

Please refer to these notes as applicable for the parts list below:

*A The Samtec 39 pin connector, when ordering from Digikey, will always show zero stock because they are made-to-order. They will ship same or next day though.

*B These parts may be omitted if group port selection will not be used. See assembly notes.

*C Use the long tail headers for stacked assembly, and the right-angle headers if installing on a base board with a group I/O cable

SPI INTERFACE

Qty	Description		Manufacturer	Manufacturer #	Vendor	Vendor #	Price	Qty	Total
<u>Integrated Circuits</u>									
2	74HC04	U1,U5	TI	CD74HC04E	Digikey	296-12772-5-ND	0.68	2.00	1.36
2	74HC10	U2,U10	TI	SN74HC10N	Digikey	296-8214-5-ND	0.65	2.00	1.30
1	74HC40103	U3	TI	CD74HC40103E	Digikey	296-9200-5-ND	1.85	1.00	1.85
1	74HC273	U4	TI	CD74HC273E	Digikey	296-12801-5-ND	0.93	1.00	0.93
1	74HC32	U6	TI	SN74HC32N	Digikey	296-1589-5-ND	0.60	1.00	0.60
2	74HC00	U7,U12	TI	SN74HC00N	Digikey	296-1563-5-ND	0.60	2.00	1.20
1	74HC02	U8	TI	CD74HC02E	Digikey	296-12770-5-ND	0.50	1.00	0.50
1	74HC4002	U9	TI	CD74HC4002E	Digikey	296-25987-5-ND	0.68	1.00	0.68
1	74HC175	U11	TI	SN74HC175N	Digikey	296-8257-5-ND	0.93	1.00	0.93
1	74HC163	U13	TI	SN74HC163N	Digikey	296-8246-5-ND	0.92	1.00	0.92
1	74HC165	U14	TI	SN74HC165N	Digikey	296-8251-5-ND	0.60	1.00	0.60
1	74AHCT595	U15	TI	SN74AHCT595N	Digikey	296-33695-5-ND	0.76	1.00	0.76
<u>Discrete Components</u>									
2	Diode 1N4148	D1,D2	ON Semi	1N4148	Digikey	1N4148FS-ND	0.10	2.00	0.20
15	Ceramic capacitor 0.1uF radial 0.2"	C1-15	Vishay	K104K10X7RF5UH5	Digikey	BC2665CT-ND	0.16	15.00	2.34
1	XTAL OSC XO 16.0000MHZ HCMOS TTL	Y1	ECS Inc.	ECS-2100AX-160	Digikey	X963-ND	3.15	1.00	3.15
1	MICROSD CARD BREAKOUT 5V OR 3V	J7	Adafruit	254	Digikey	1528-1462-ND	7.50	1.00	7.50
<u>Interconnects</u>									
1	R/A shrouded header 10 pins 0.1"	J1	Hirose	HIF3FC-10PA-2.54D5(71)	Digikey	H123842-ND	2.21	1.00	2.21
2	Straight header 3 pins 0.1"		Sullins	PREC003SAAN-RC	Digikey	S1012EC-03-ND	0.09	2.00	0.18
1	Straight header 8 pins 0.1"	J7	Sullins	PREC008SAAN-RC	Digikey	S1012EC-08-ND	0.19	1.00	0.19
1	Straight dual row header 21 position (*B)	J8	Sullins	PREC021DAAN-RC	Digikey	S2012EC-21-ND	0.73	1.00	0.73
3	Jumper shunts 0.1"		Sullins	STC02SYAN	Digikey	S9000-ND	0.09	3.00	0.27
1	Socket 39 pin 0.1" long tail (*A)(*C)		Samtec	SSQ-139-03-T-S	Digikey	SAM1206-39-ND	6.47	1.00	6.47
1	Socket 20 pin 0.1" long tail (*B)(*C)		Samtec	SSQ-120-03-T-S	Digikey	SAM1206-20-ND	3.46	1.00	3.46
1	R/A header 39 pin 0.1" (*C)		Sullins	PREC039SBAN-M71RC	Digikey	S1112EC-39-ND	0.88	1.00	0.88
1	R/A header 20 pin 0.1" (*C)		Sullins	PREC020SBAN-M71RC	Digikey	S1112EC-20-ND	0.50	1.00	0.50
<u>Sockets</u>									
1	DIP socket 8 pin 0.3"		On Shore	ED08DT	Digikey	ED3044-5-ND	0.21	1.00	0.21
5	DIP socket 14 pin 0.3"		On Shore	ED14DT	Digikey	ED3045-5-ND	0.19	9.00	1.71
5	DIP socket 16 pin 0.3"		On Shore	ED16DT	Digikey	ED3046-5-ND	0.26	5.00	1.30
1	DIP socket 20 pin 0.3"		On Shore	ED20DT	Digikey	ED3054-5-ND	0.31	1.00	0.31
<u>Mechanical</u>									
4	0.5 inch standoff spacer		RAF	4505-440-AL-7	Jameco	393474	0.49	4.00	1.96
1	Circuit Board		Hefner		JLPCB		0.40	1.00	0.40
							Total		45.60