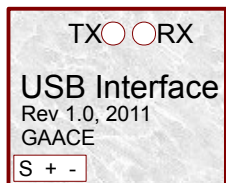


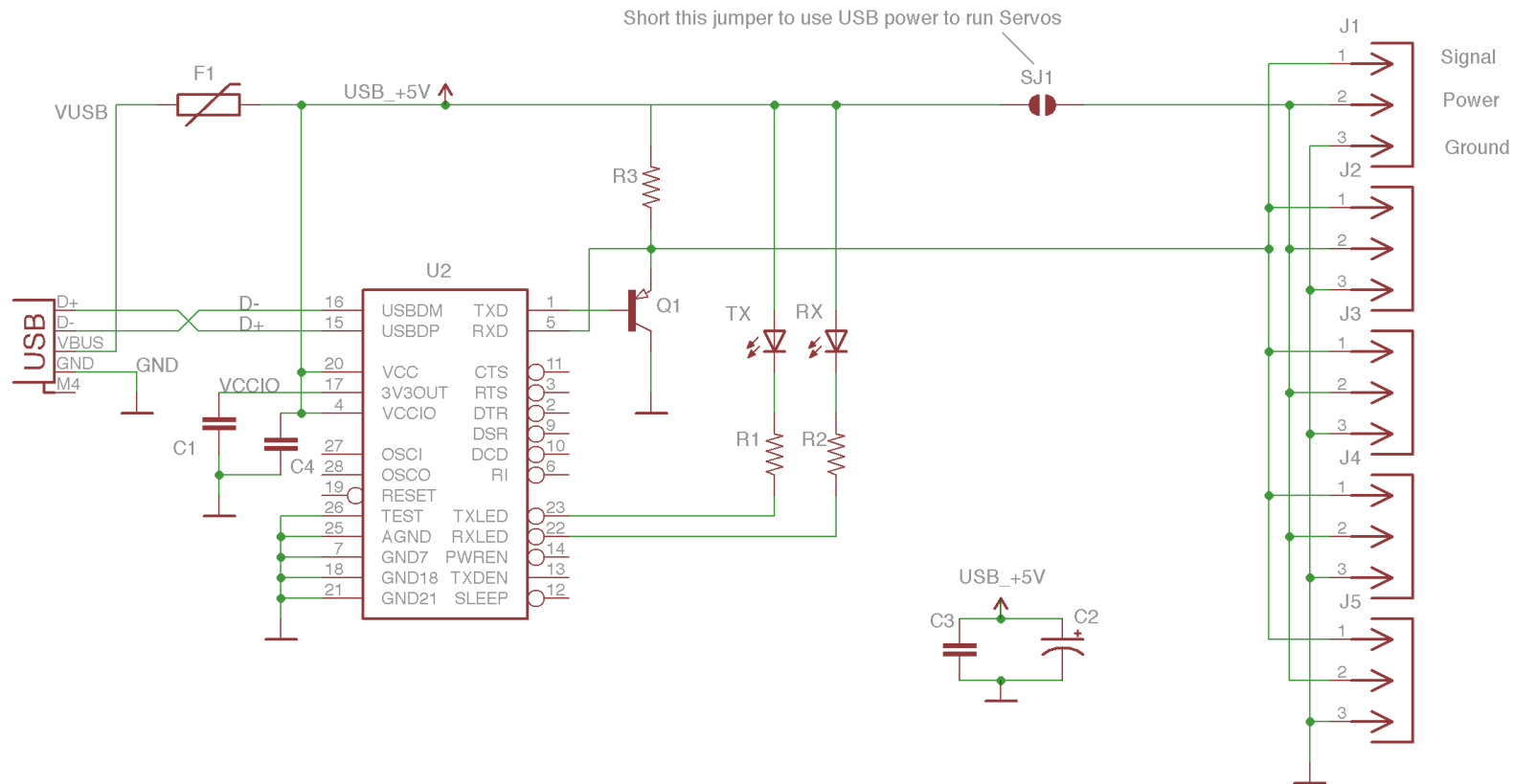
USB Interface

Rev 1.0

December 2011
Gordon Anderson



Servo Connections



Do not short SJ1, use a battery or power supply to power the servos. USB ports can not supply the needed current for most servos.

TITLE: USBinterface

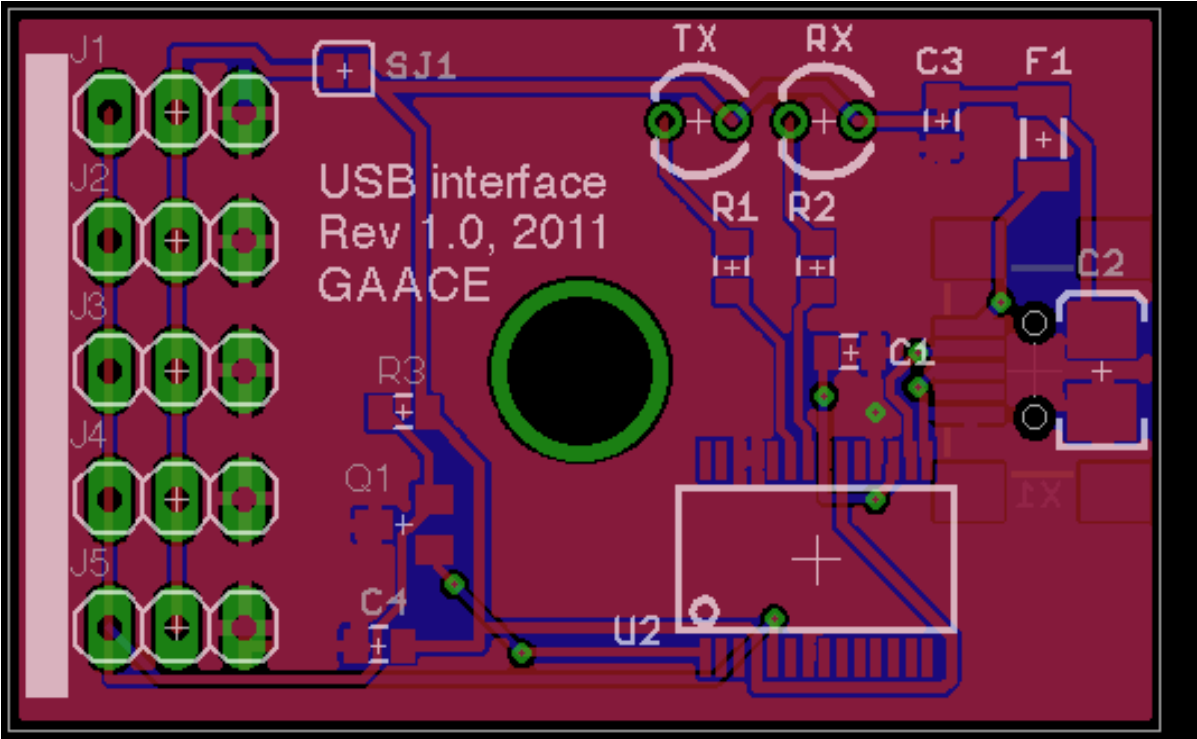
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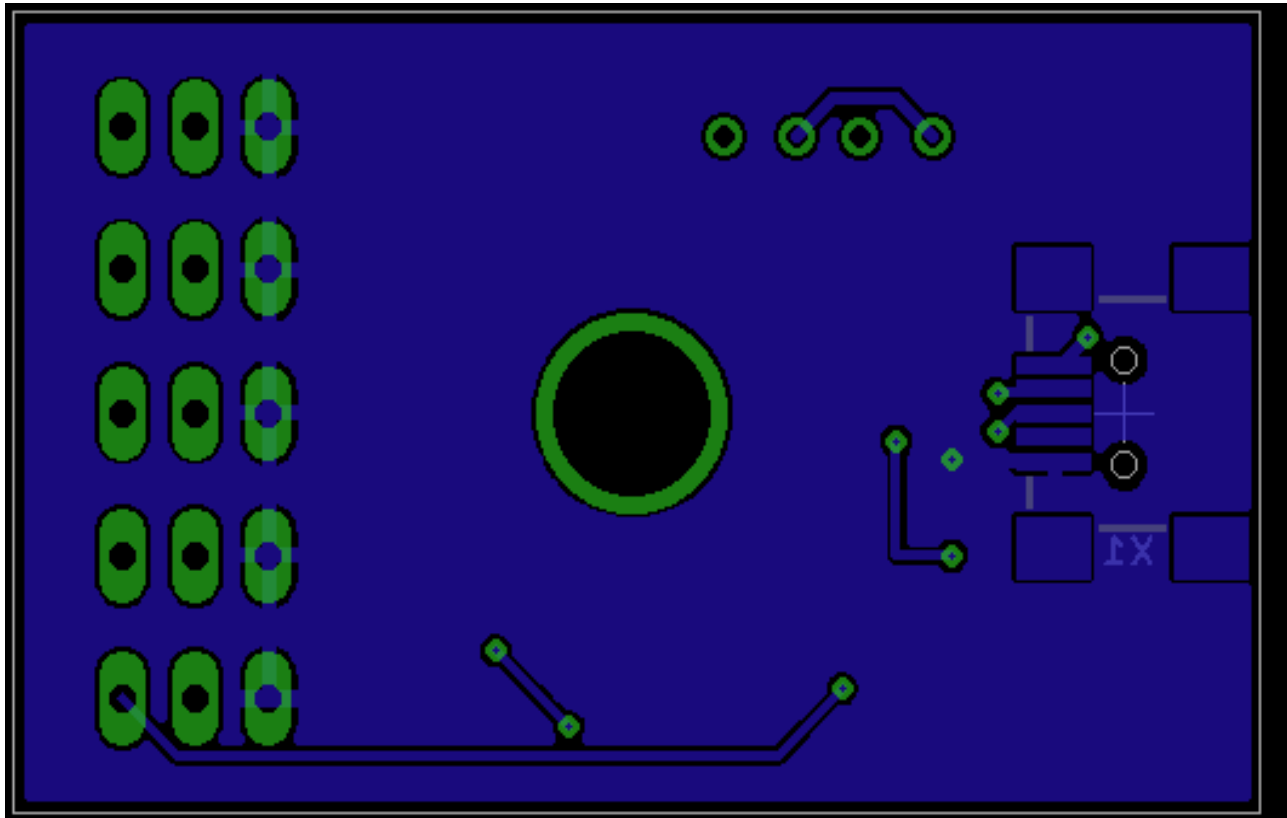
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Sheet: 1/1

USB interface, PCB component side



USB interface, PCB solder side

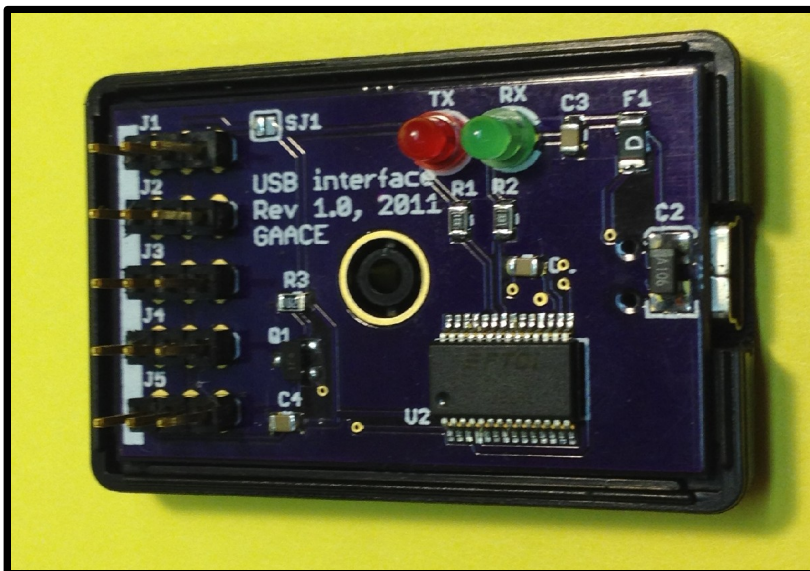
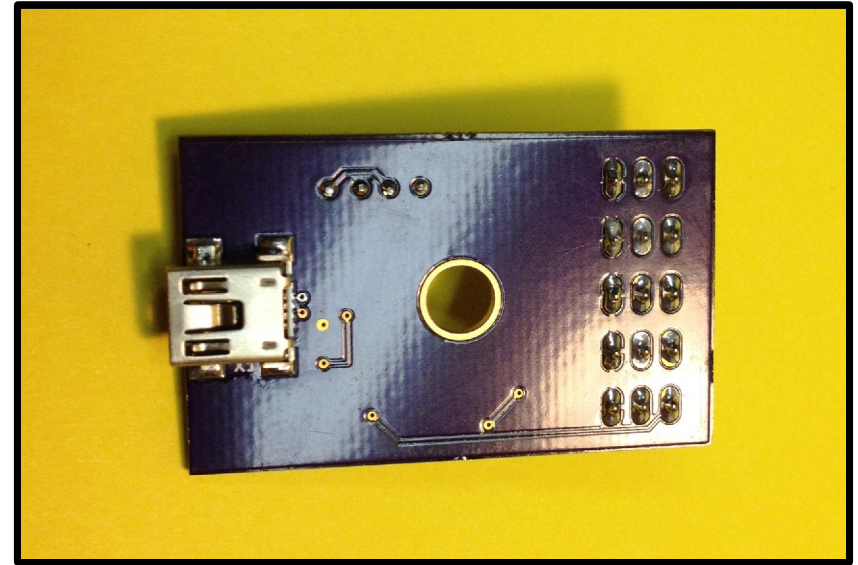
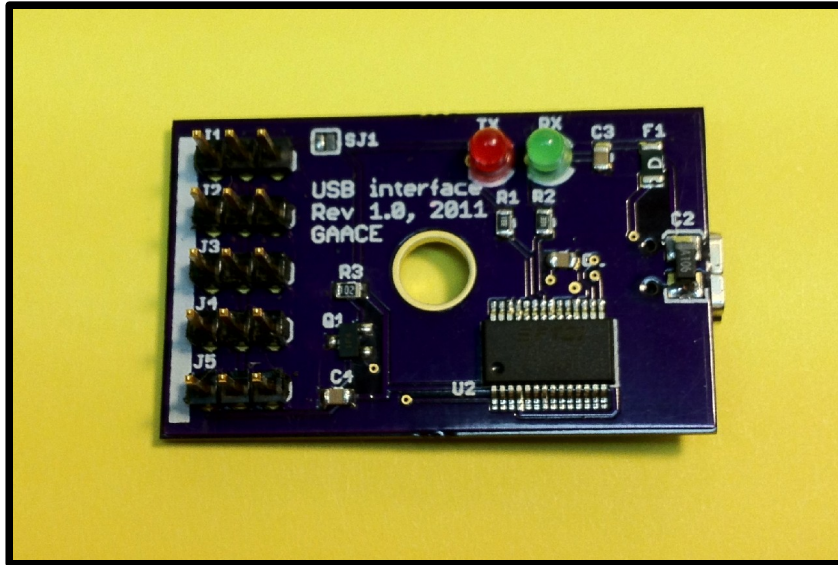


USBinterface Parts List, Rev 1.0

Item	Quantity	ID	Part number	Description	Supplier	Cost each	Total cost	Notes
1	3	C1,C3,C4	490-1726-1-ND	0.1uF 25v 0805	Digikey	0.09	0.27	
2	1	C2	493-2351-1-ND	10uF 10V 1206 Tant	Digikey	0.34	0.34	
3	1	R3	P1.0KACT-ND	1000 ohm 0805	Digikey	0.01	0.01	
4	2	R1,R2	P330ACT-ND	330 ohm 0805	Digikey	0.01	0.02	
5	1	F1	F2110CT-ND	Fuse PTC reset, .25A	Digikey	0.47	0.47	
6	1	Q1	ZXTP25020CFFCT-ND	PNP transistor, SOT23	Digikey	0.66	0.66	
7	1	TX	754-1218-ND	3mm Red LED	Digikey	0.1	0.1	
8	1	RX	754-1217-ND	3 mm Green LED	Digikey	0.1	0.1	
9	1	U2	768-1007-1-ND	USB to RS232	Digikey	4.5	4.5	
10	1	J1,J2,J3,J4,J5	SAM1031-50-ND	Pin headers, 0.1", gold	Digikey	3.11	3.11	
11	1	X1	A31727CT-ND	USB B surface mount conn	Digikey	1.65	1.65	
12	1		SCR2B-ND	SerPac box 1.25 X 1.90 X .50	Digikey	2.08	2.08	
13	1		USBinterface1.0	PCB	GAACE	1	1	

Total 14.32

USB Interface Assembly Details



PositionStar IPS Connected to USB Interface

