



Update the document revision level (and file name) whenever changes are released to others.

Rev.	Date	Who	Description
1.00	22-Aug-2014	Kurtis Jantzen	Created.

Qty	Reference	BPS Part#	Value	Rating	Description (dimensions in mils, 0.001")	Manufacturer	Man. #	SMT	Notes
1	DS3	DS1-3/G	Green		LED, Green, Diffused, T1-3/4, TH	LiteOn	LTL-4233	No	
10	J12-J21	J1-91/16	2x8pin		Header, DIL, 2x8, 100sp, 330h, Gold Flash, TH			No	
1	JU42	J1-90/2			Jumper, 1x2 pin, 100sp, 330h, Gold Flash, TH	Tyco	103185-2	No	
1	JU42	P-42			Jumper Shunt, Black, With Handle, 100sp, Tin	Tyco	2-382811-1	N/A	
2	P1 P2	J1-97/50	2x25hole		Socket, DIL, 2x25, 100sp, XXXh, Gold, TH	Tyco	7-534998-5	No	Included with PCB
1	PCB	PCB-STM32-F4B1			PCB, STM32-F4B1, 160x160mm, 4-Layer	BPS	PCB-STM32-F4B1	N/A	
1	Q1	Q2-1	Ic=600mA	Vce=40V	Transistor, MMBT4401, NPN, SOT23	OnSemi	MMBT4401L1G	Yes	
1	R15	R2-1/102	1k	1/10 W	Resistor, 1K, 5%, 1/10W, 0805	Yageo	RC0805JR-071KL	Yes	
1	R16	R2-1/221	220R	1/10 W	Resistor, 220R, 5%, 1/10W, 0805	Yageo	RC0805JR-07220RL	Yes	
<b>RS232F Connector</b>									
5	C14-18	C1-1/104	100n	50V	Capacitor, 100nF, 50V, X7R, 10%, Radial, 100sp, TH	Kemet	C320C104K5R5TA	No	
1	DS5	DS1-3/G	GREEN		LED, Green, Diffused, T1-3/4	LiteOn	LTL-4233	No	
1	J4	J1-1/9			Connector, DB-9, Female, 0.318, R.Angle, Screwlocks, Boardlocks, Gold, TH	FCI	10090099-S094VLF	No	
1	R6	R1-1/103	10k	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R3	R1-1/105	1M	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R8	R1-1/221	220R	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	U2 (Socket)	X-1/16			Socket, Dual Leaf, Tin, DIP16-150, TH	Tyco	1-390261-4	No	
1	U2 (Chip)	U1-20			IC, RS232, 2 Tx, 2 Rx, ESD, 100n Caps, -40to85, DIP16	Sipex	SP202EEP-L	No	
	U2 (Alternate Chip)				IC, RS232, 2 Tx, 2 Rx, ESD, 100n Caps, 0to70, DIP16	Sipex	SP202ECP-L	No	Commercial temp.
<b>RS232M Connector</b>									
5	C9-13	C1-1/104	100n	50V	Capacitor, 100nF, 50V, X7R, 10%, Radial, 100sp, TH	Kemet	C320C104K5R5TA	No	
1	DS4	DS1-3/G	GREEN		LED, Green, Diffused, T1-3/4	LiteOn	LTL-4233	No	
1	J1	J1-2/9			Connector, DB-9, Male, R.Angle, Screwlocks, Mount Holes, TH	Norcomp	182-009-113R181	No	
1	R2	R1-1/103	10k	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R5	R1-1/105	1M	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R9	R1-1/221	220R	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	U1 (Socket)	X-1/16			Socket, Dual Leaf, DIP16-150, TH	Tyco	1-390261-4	No	
1	U1 (Chip)	U1-20			IC, RS232, 2 Tx, 2 Rx, ESD, 100n Caps, -40to85, DIP16	Sipex	SP202EEP-L	No	
	U1 (Alternate Chip)				IC, RS232, 2 Tx, 2 Rx, ESD, 100n Caps, 0to70, DIP16	Sipex	SP202ECP-L	No	Commercial temp.