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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	DS5	DS1-3/R	Red		LED, Red, Diffused, T1-3/4, TH	LiteOn	LTL-4203	No	
6	J5 J7-8 J16 J22-23	J1-91/16	2x8pin		Header, DIL, 2x8, 100sp, 330h, Gold Flash, TH				
1	JU13	J1-90/2			Jumper, 1x2 pin, 100sp, 330h, Gold Flash, TH	Tyco	103185-2	No	
1	JU13	P-42			Jumper Shunt, Black, With Handle, 100sp, Tin	Tyco	2-382811-1	N/A	
2	PCA1	J1-96/28	1x28hole		Socket, SIL, 28x1, 100sp, 340h, Gold, TH	Tyco		No	
1	PCA1	J1-96/6	1x6hole		Socket, SIL, 6x1, 100sp, 340h, Gold, TH			No	
1	PCB	PCB-STM32-VLB1			PCB, STM32-VLB1, 160x160mm, 2 Sided	BPS	PCB-STM32-VLB1	N/A	
1	Q2	Q2-1	Ic=600mA	Vce=40V	Transistor, MMBT4401, NPN, SOT23	OnSemi	MMBT4401LT1G	Yes	
1	R8	R2-1/221	220R	1/10 W	Resistor, 220R, 5%, 1/10W, 0805	Yageo	RC0805JR-07220RL	Yes	
1	R10	R2-1/102	1k	1/10 W	Resistor, 1K, 5%, 1/10W, 0805	Yageo	RC0805JR-071KL	Yes	
RS232F Connector									
5	C4 C8 C10 C13	C1-1/104	100n	50V	Capacitor, 100nF, 50V, X7R, 10%, Radial, 100sp, TH	Kemet	C320C104K5R5TA	No	
1	DS6	DS1-3/G	GREEN		LED, Green, Diffused, T1-3/4	LiteOn	LTL-4233	No	
1	J11	J1-1/9			Connector, DB-9, Female, 0.318, R.Angle, Screwlocks, Boardlocks, Gold, TH	FCI	10090099-S094VLF	No	
1	R25	R1-1/103	10k	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R26	R1-1/105	1M	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R27	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.
RS232M Connector									
5	C1-3 C7 C12	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	J9	J1-2/9			Connector, DB-9, Male, R.Angle, Screwlocks, Mount Holes, TH	Norcomp	182-009-113R181	No	
1	R14	R1-1/103	10k	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R22	R1-1/105	1M	1/4W	Resistor, 5%, 1/4W, Axial			No	
1	R23	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.