









Bill of Materials							RS485 Router		
Board: RS485 Router, rev. A									
Morgan Quigley, Open Source Robotics Foundation									
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650-796-4881									

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Designator	Quantity Value	e Footprint	digikey	Mouser	Manufacturer	Manufacturer Part Number
X1	1	CRYSTAL_2_2.5	887-1339		TXC	8Z-25.000MEEQ-T
U6	1	OSCILLATOR_3.2x2.5	535-9577	815-ASE-50.000MLCT	Abracon	ASE-50.000MHZ-LCT
U5	1	STM-LQFP144_N	497-14050		STMicroelectronics	STM32F427ZIT6
U4	1	RECOM_R_78xx_0.5	DNP		DNP	DNP
U3	1	KSZ8081RNX	576-4177		Micrel	KSZ8081RNDCA
			ADM1176-1ARMZ-			
U2A, U2B, U2C, U2D, U2E	5	ADM1176	R7	584-ADM1176-1ARMZ-R7	Analog Devices	ADM1176-1ARMZ-R7
U1A, U1B, U1C, U1D, U1E	5	MAX3079E	MAX3079EESD+T	700-MAX3079EESD	Maxim Integrated	MAX3079EESD+
SJ1A, SJ1B, SJ1C, SJ1D, SJ1E	5	SOLDER_SPDT_NC	DNP		DNP	DNP
S1, S2	2	EVPAA402_switch	P13349S	667-EVP-AA402W	Panasonic	EVP-AA402W
R11, R12	2 220	GENERIC_0603	541-220H		Vishay	CRCW0603220RFKEA
R10	1 0	GENERIC_0603	541-0.0G		Vishay	CRCW06030000Z0EA
R7, R8, R9	3 1k	GENERIC_0603	541-1.00KH		Vishay	CRCW06031K00FKEA
R6	1 6k49	GENERIC_0603	541-6.49KH		Vishay	CRCW06036K49FKEA
R5, R13, R14, R15	4 10k	GENERIC_0603	541-10.0KH		Vishay	CRCW060310K0FKEA
R4A, R4B, R4C, R4D, R4E	5 100k	GENERIC_0603	541-100KH		Vishay / Dale	CRCW0603100KFKEA
R3A, R3B, R3C, R3D, R3E	5 OR1	GENERIC_1206	1276-6187		Samsung	RUW3216FR100CS
R1A, R1B, R1C, R1D, R1E, R2A, R2B, R2C,						
R2D, R2E	10 120	GENERIC 0603	541-120H		Vishay	CRCW0603120RFKEA
Q1A, Q1B, Q1C, Q1D, Q1E	5	MOSFET TDSON 8	BSC011N03LS		Infineon	BSC011N03LS
J10	1	HDR2X10				
J9	1	HDR1X3	DNP		DNP	DNP
J8	1	HDR1X3	DNP		DNP	DNP
30	-	TIDITEXS	Ditti		DIVI	
J7	1	50MIL_TH_VERT_5X2	DND		DNP	DNP
37	-	JAE DX4R005HJ5R20			DIVI	DIVI
J6	1	00	670-2674	656-DX4R005HJ5R2000	JAE	DX4R005HJ5R2000
J5	1	pulse J0011d01bnl	DNP	030-034100311331(2000	DNP	DNP
J4	1	MINIFIT_2POS_RA	DNP		DNP	DNP
14	1		DINF		DINF	DIVE
134 130 130 130 135	5	100mil_th_ra_6x1_s	DNP		DNP	DNID
J3A, J3B, J3C, J3D, J3E	3	hrouded	DINP	-	DINP	DNP
144 145 146 145 145 124 125 126 125 125	- 10	MOLEX_SPOX_4POS	DND		DND	DNID
J1A, J1B, J1C, J1D, J1E, J2A, J2B, J2C, J2D, J2E FB1		_TH_VERT	DNP	+	DNP	DNP
	1 220	GENERIC_0603	445-1565	+	TDK	MPZ1608S221ATA00
F1, F2, F3	3	fiducial_circle	560 4430		ALIVO	DA 45 0 CO 4 0 CF 4 4 5
D1, D2	2	SOD323F	568-4138	-	NXP	PMEG6010CEJ,115
C36	1 220	alactrolytic Omm +	DND		DNP	DNP
C36 C18	1 220u	electrolytic_8mm_th				
	1 10n	GENERIC 0603	445-1311		TDK TDK	C1608X7R1H103K080AA C1608C0G1H180J080AA
C16, C17	2 18pF	GENERIC_0603 GENERIC_0603	445-1272	-	TDK	
C12, C20, C21	3 2u2		445-5958			C1608X7R1A225K080AC
C10	1 100u	panasonic_c	493-2248		Panasonic	UUD1A101MCL1GS
C8, C9, C11, C22	4 10u	GENERIC_0603	445-9015		TDK	C1608X5R1E106M080AC
C4, C5	2 22u	GENERIC_0805	445-6797		TDK	C2012X5R1C226K125AC
C3A, C3B, C3C, C3D, C3E	5 1u	GENERIC_0603	445-5956		TDK	C1608X7R1E105K080AB
C1A, C1B, C1C, C1D, C1E, C2A, C2B, C2C,						
C2D, C2E, C6, C7, C13, C14, C15, C19, C23,						
C24, C25, C26, C27, C28, C29, C30, C31, C32,						
C33, C34, C35	29 100n	GENERIC_0603	445-1316		TDK	C1608X7R1E104K080AA