

RS485 conversion card parts list (in recommended order of assembly)

Qty.	Symbol	Description
5	J1-J5	Jumpers - make from spare resistor leads
2	R1, R2	330Ω resistors [orange-orange-brown]
3	R3-R5	2.2KΩ resistors [red-red-red]
2	R6, R7	120Ω resistors [brown-red-brown]
4	R8-R11	1.0KΩ resistors [brown-black-red]
3	-	4-40 x ¼" pan-head machine screws (Digi-Key H142)
3	-	4-40 hex nuts (Digi-Key H216)
2	S1, S2	8-pin DIP sockets (Jameco 112205)
1	S3	14-pin DIP socket (Jameco 112213)
1	S4	16-pin DIP socket (Jameco 112221)
4	C1-C4	.1μF, 50V monolithic capacitors (JDR .1UF-MONO)
5	C5-C9	1μF, 35V tantalum capacitors (Jameco 33662)
1	C10	2.2μF, 16V tantalum capacitor (Jameco 94001)
1	H1	3-pin Waldom right angle header (make from 24-pin right angle header Mouser 538-26-48-1242 – see text)
1	H2	5-pin Waldom right angle header (make from 24-pin right angle header Mouser 538-26-48-1242 – see text)
1	L1	Diffused amber T1¾ size LED (Digi-Key P306)
1	L2	Diffused red T1¾ size LED (Digi-Key P300)
2	U1, U2	Dual RS485/RS422 transceivers (Digi-Key MAX487CPA)
1	U3	7407 hex buffer/driver open collector, non-inverting (Jameco 49120)
1	U4	Dual RS232 transmitter & receiver (Digi-Key MAX232CPE) or (Jameco 24811)

Author's recommendations for suppliers given in parentheses above with part numbers where applicable. Equivalent parts may be substituted. Resistors are ¼W, 5 percent and color codes are given in brackets.