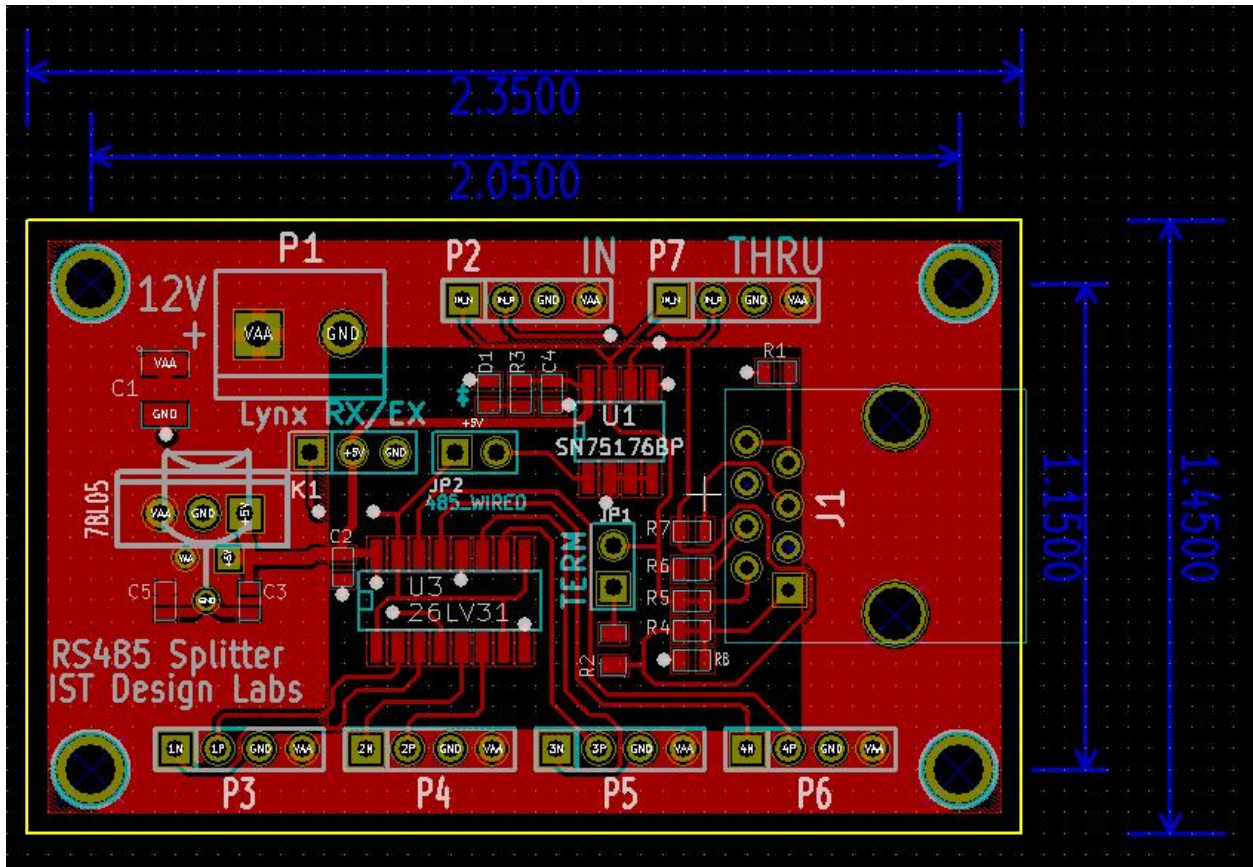


RS485 Splitter assembly instructions

10/27/2010



- 1) If loading board for Renard pinout on the RJ45 (RS485 data on pins 4&5), carefully cut the trace between the two pads of R4 and between the two pads of R5 with an exacto knife or similar. Use an ohm-meter to verify that there is no mode connection between these two pads.
- 2) Load C1 (10uF)
- 3) Load C2, C3, C4 (100nF)
- 4) Load C5 (330nF – you may use a 100nF here instead)
- 5) Load R2 (120 ohms)
- 6) If you want a power-on indicator, load R3 (1k) and D1 (LED, polarity as shown)
- 7) Load U1 (SN75176 or ST485)
- 8) Load U3 (26LV31)
- 9) Load U4. Use a 78L05 (TO-92 case, flat side towards board). If you will be adding a Lynx RX/EX receiver to this board, use a 7805 (TO220 case, flat side towards C1) instead.
- 10) Load two-pin headers at JP1 and JP2
- 11) Load DC In connector at P1
- 12) If wiring the board for Renard pinout, load R6 and R7 (0 ohms) and R8 (100 ohms)
- 13) If wiring the board for DMX pinout on the RJ45, load R1 (100 ohms)

- 14) If using the RJ45 input connector, load it at J1
- 15) If using the output connectors, load them at P3-P6, otherwise, hard-wire P3-P6 to your RS485 devices. The pinout matches the one on the color stick.
- 16) If using the input and through connectors, load them at P2 and P7.
- 17) If adding a Lynx RX/EX (currently not tested...), wire it to connector K1.
- 18) If not using a Lynx RX/EX, place a 2-pin jumper on JP2
- 19) If this will be the last board on the DMX input chain, place a 2-pin jumper on JP1 to terminate the input.