



Star Engineering

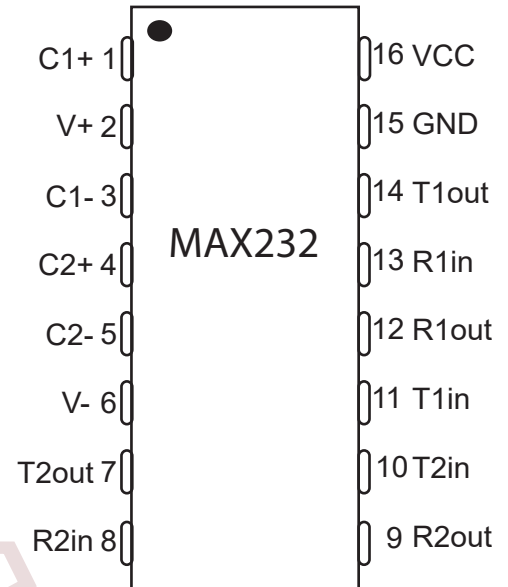
Universal line driver

Universal line driver is use for PC communication RS-232 Line driver and also RS-485 MODBUS Line driver.

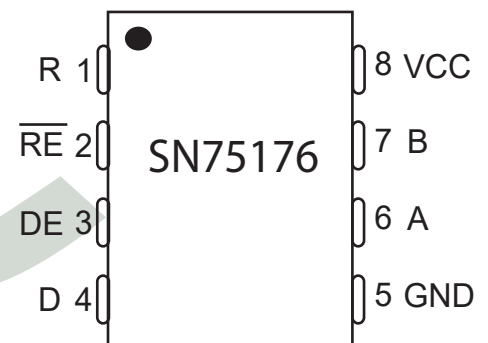
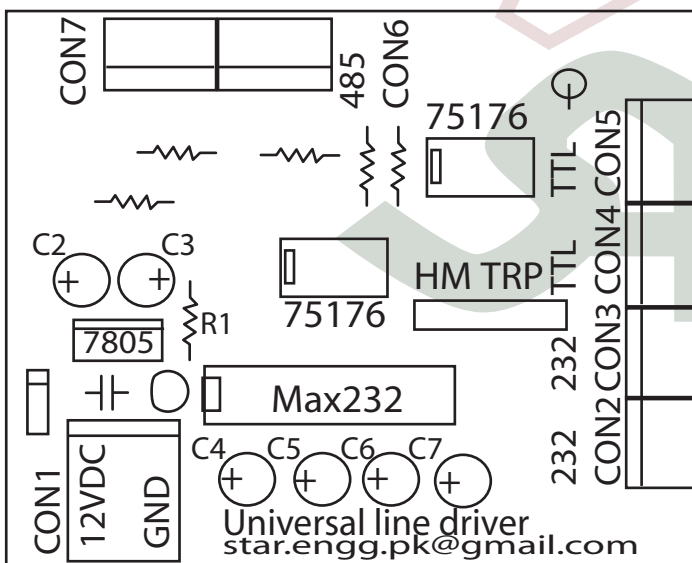
As you can see in pcb layout there are four crimp-shell connectors for RS-232 named (CON2, CON3, CON4, CON5), CON2 and CON3 is use for input form microcontroller to universal line driver CON4 and CON5 is us as output from Universal line driver to an external circuitory or PC.

RS-485 there are two crimp-shell connectors CON6 is use as reciver whereas CON7 is use as transmitter.

CON1 is use for bias Universal line driver with 12VDC adaptor



PCB Layout



Component list

IC = MAX232 and SN75176.

R2, R3, R4, R5, R6, R7 =2.2KOHM

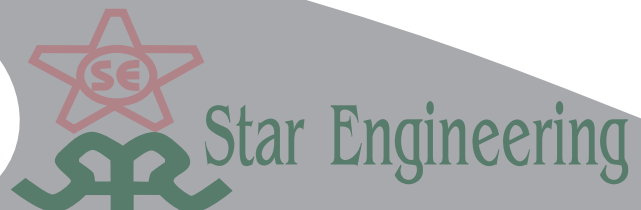
R1 = 1KOHM.

IC = 7805

C1 = 104

C2, C3 = 470uF 25 Volt

C4, C5, C6, C7=10uF 50Volt



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