How do I make a 5v to 3.3v logic converter?

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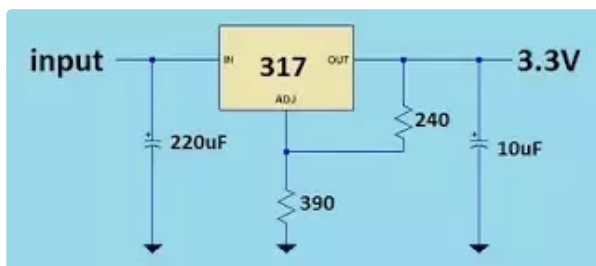
3 Answers

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The easiest way is to use an off the shelf voltage regulator. I would suggest the usage of LM317 voltage regulator, because it is a variable voltage regulator which can take an input voltage of 3-40 Volts DC, and output a fixed output voltage from 1.2 to 37 Volts DC and can deliver upto 1.5A current. So it can be used to regulate not only 5V to 3.3V but also for other values based on the resistor combination that you use.

So the circuit for 5V to 3.3V using LM317 is:

You can use this LM317 Voltage Calculator   for other voltage conversions in future using the LM317 regulator.