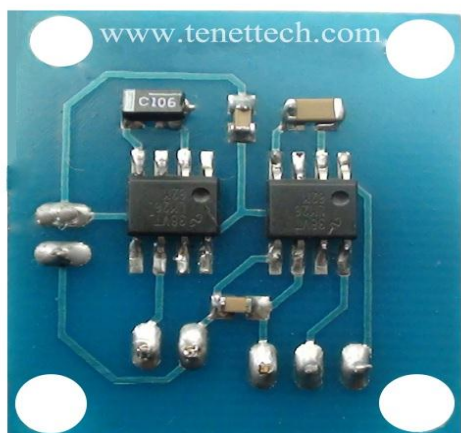




2016

Application Note on Interfacing Arduino with LM2662 Switched Capacitor Voltage Converter



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Reviewer:

Version1.0

Interfacing Arduino UNO with LM2662 Switched Capacitor Voltage Converter

Introduction

In this application note we will be discussing on doubling the input voltage both in positive and negative using LM2662 Switched Capacitor Voltage Converter breakout.

LM2662: Switched Capacitor Voltage Converter inverts a positive voltage in the range of 1.5V to 5.5 V to the corresponding negative voltage. The LM2662/LM2663 uses two low cost capacitors to provide 200 mA of output current without the cost, size, and EMI related to inductor based converters. With an operating current of only 300 μ A and operating efficiency greater than 90% at most loads, the LM2662/LM2663 provides ideal performance for battery powered systems.

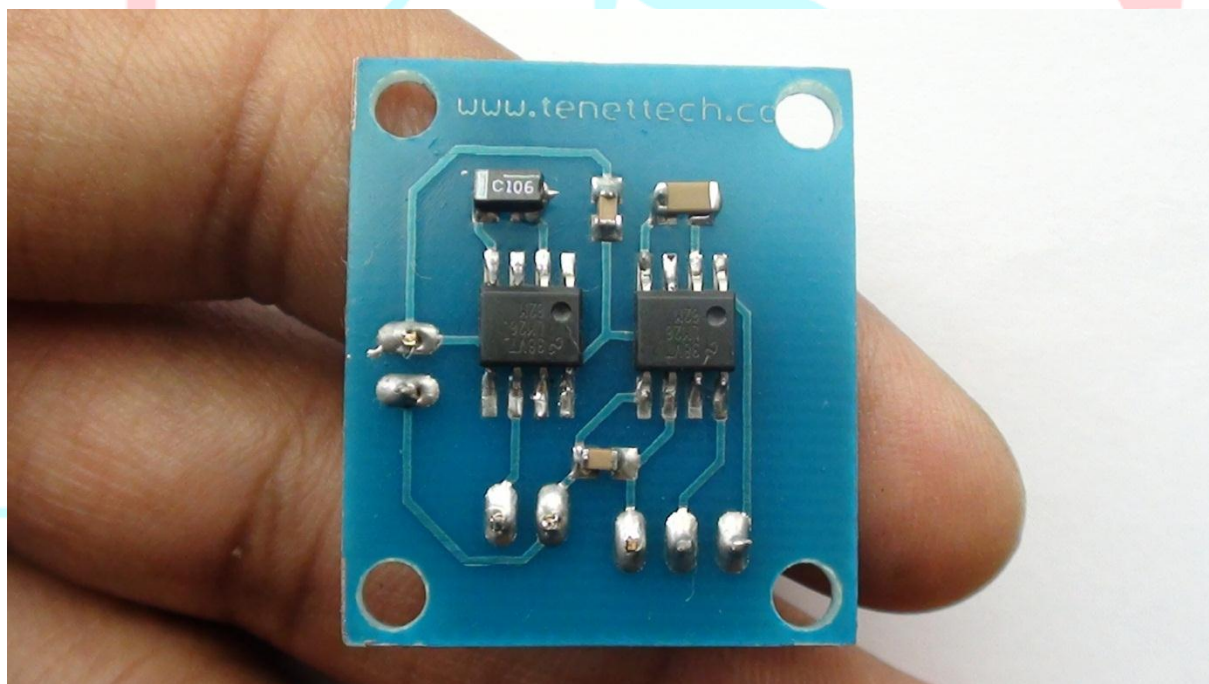


Fig1: Front view

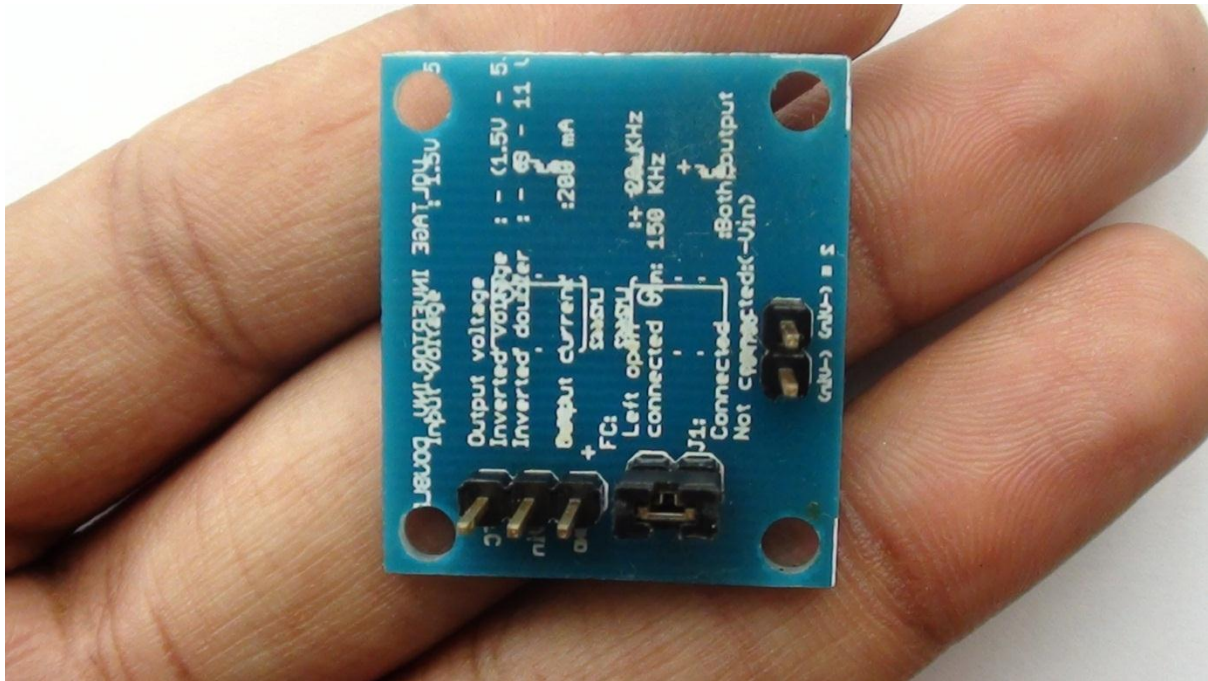


Fig2: Rear view

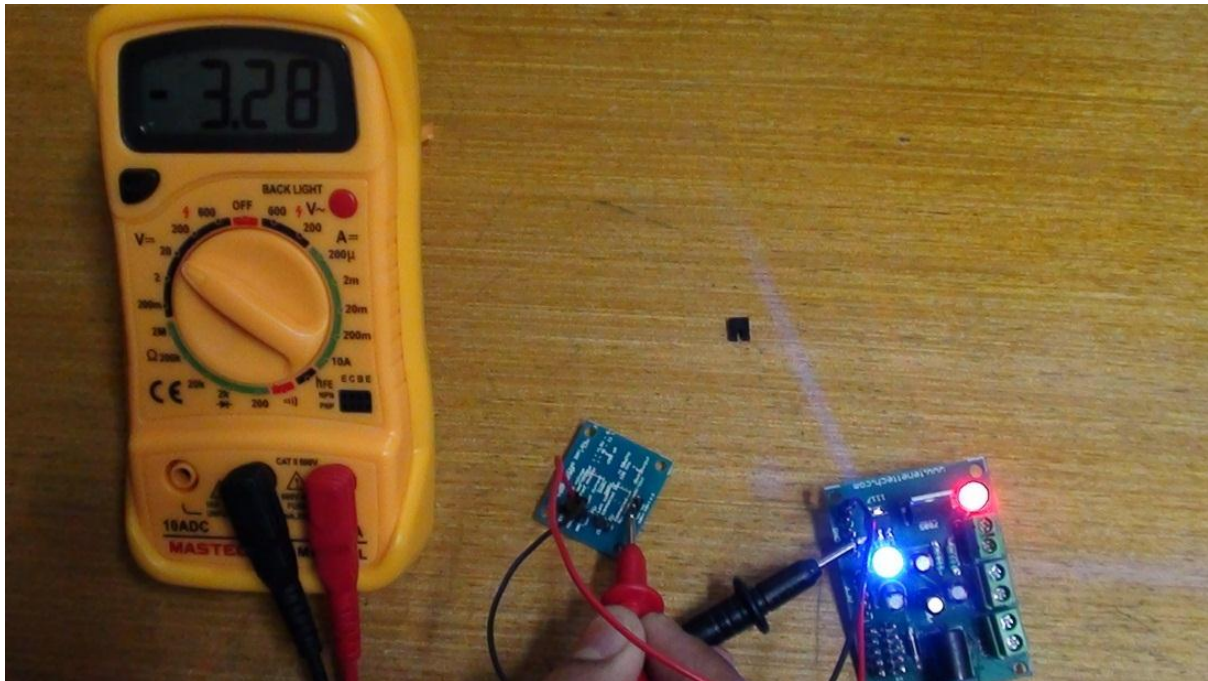
Applications:

1. One of the application is in Operational amplifier power supplies where you are in need of negative input voltage to op-amp
2. It also helps in providing proper voltages in Hand held instruments
3. Medical instruments like Heartbeat sensor

Experiment-01: Inverting your input voltage without headers

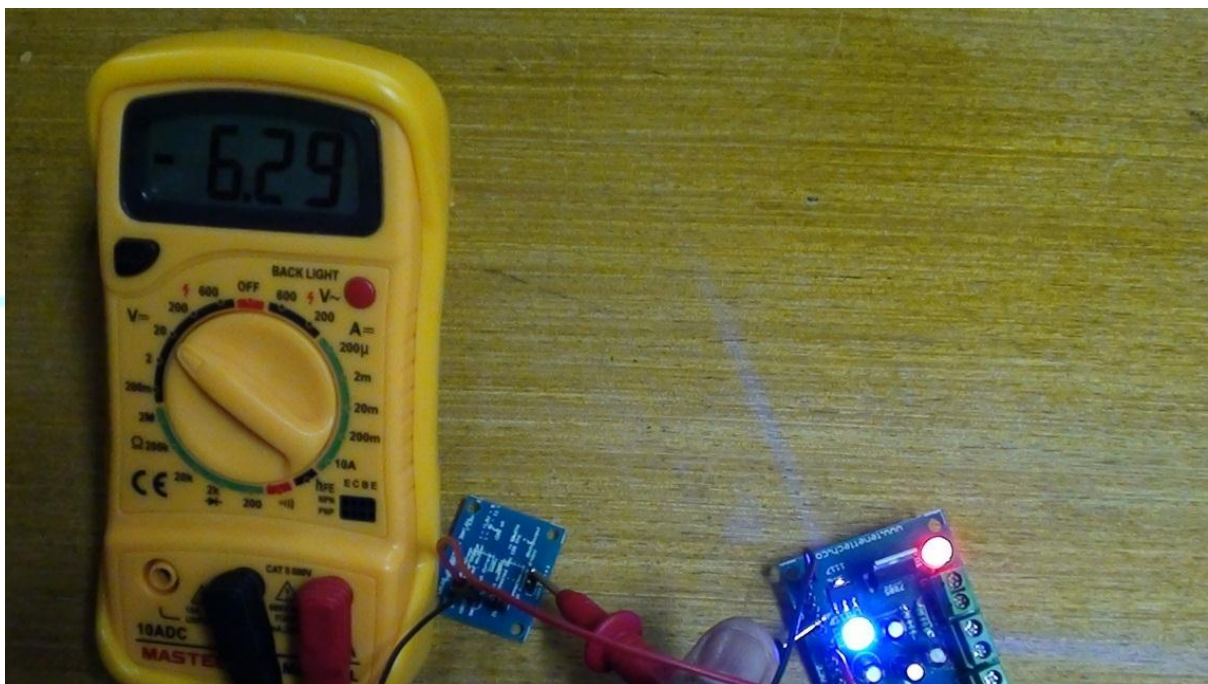
From the above fig you can see to that your input positive voltage is being converted to corresponding negative voltage, the input voltage we are giving is +3.3V from the power supply breakout.

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Experiment-02: Doubling your input voltage with headers

From the above fig you can see to that your input positive voltage is being doubled the input voltage, the input we are giving is +3.3V from the power supply breakout, the output is 6.3V



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