LTC2400 ADC module Specifications:

1. LTC2400CS8 24bit Analog to digital converter
   i. 4ppm INL, No missing code
   ii. 4ppm Full Scale Error
   iii. 0.5ppm Offset
   iv. 0.3ppm Noise
2. Texas Instrument REF3040 Precision reference
   i. 4.096V reference voltage output
   ii. 0.2% accuracy
   iii. 50ppm/C max
   iv. SOT23-3 package
3. Measurement maximum voltage
   i. Voltage_IN1 – Maximum 4.096V
   ii. Voltage_IN2 – Maximum 17V.
      (By resistor divider, JP2 must be shorted to enable Voltage_IN2)
4. Directly plug to Arduino UNO for measurement
5. PCB designed to use higher precision reference in SO-8package
6. PCB designed to support V+ input for providing voltage for 5.0V output reference

Applications:
1. 6 digit voltmeter
2. High resolution measurement of analog sensors. E.g. temperature measurement using NTC, analog output temperature IC, pressure sensor, sound sensor, light intensity sensor, humidity sensor etc
Usage:

1. Upload the demo sketch (LTC2400_ADC_Serial_out.ino)
2. Plug the module into Arduino UNO board
3. Connect Vcc of the Module to 5V of the Arduino board
4. Connect the measuring source to Voltage_IN1
5. Measured voltage will be sent to UART Tx

NB:

1. If the input source is connect to Voltage_IN2, the measured voltage will be multiplied by the value of the resistor divider (around (33k+10k)/10k)
2. Do not reverse the voltage input. Voltage_IN goes to +, GND goes to -
Output to UART TFT LCD

LTC2400 24bit ADC Module

2.984563V