SPECIFICATIONS

- Use CHIP No.SH1106
- Use 3.3V-5V POWER SUPPLY
- Graphic LCD 1.3" in width with 128x64 Dot Resolution
- White Display is used for the model **OLED 1.3 I2C WHITE** and blue Display is used for the model **OLED 1.3 I2C BLUE**
- Use I2C Interface
- Directly connect signal to Microcontroller 3.3V and 5V without connecting through Voltage Regulator Circuit
- Total Current when running together is 8 mA
- PCB Size: 33.7 mm x 35.5 mm

Table shows name and function of Pin OLED

Pin No.	Pin Name	Description
1	VDD	Pin Power Supply for LCD, using 3.3V-5V
2	GND	Pin Ground
3	SCK	Pin SCL of I2C Interface
4	SDA	Pin SDA of I2C Interface

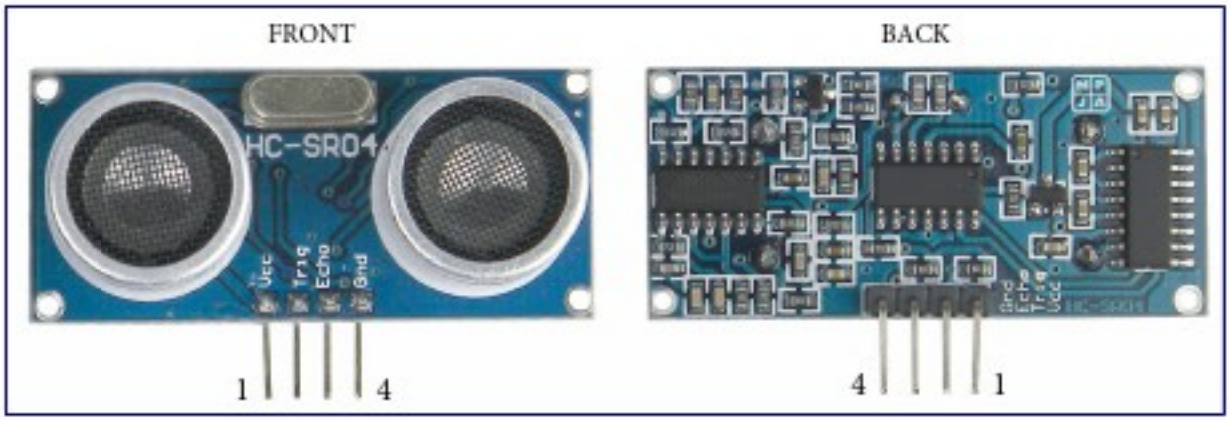
How does it Work?

The voltage that the sensor output changes according to the smoke/gas level that exists in the atmosphere. The sensor outputs a voltage that is proportional to the concentration of smoke/gas.

In other words, the relationship between voltage and gas concentration is the following:

- The greater the gas concentration, the greater the output voltage
- The lower the gas concentration, the lower the output voltage

3. Product Views



4. Module Pin Asignments

	Pin Symbol	Pin Function Description
1	VCC	5V power supply
2	Trig	Trigger Input pin
3	Echo	Receiver Output pin
4	GND	Power ground

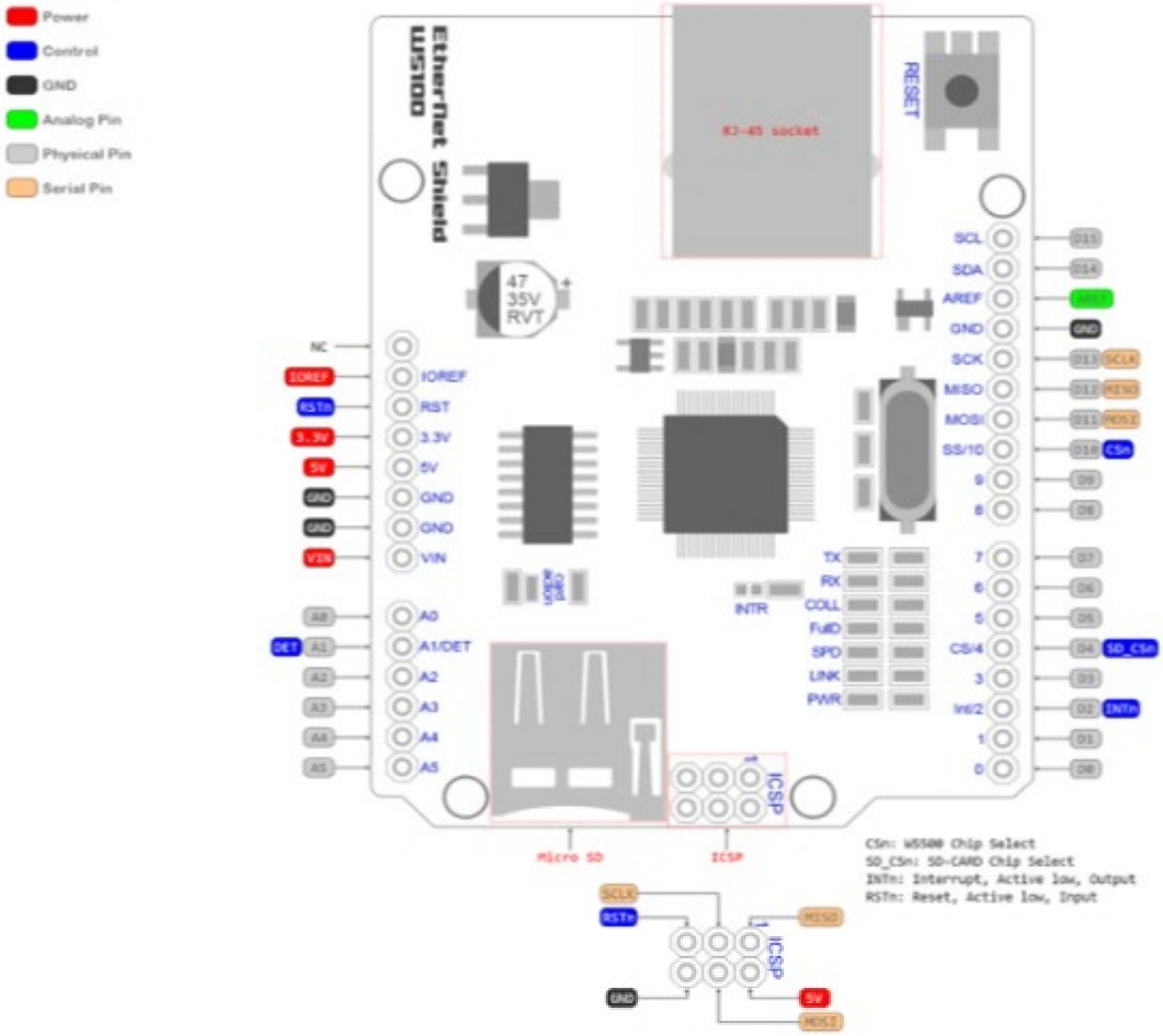
5. Electrical Specifications

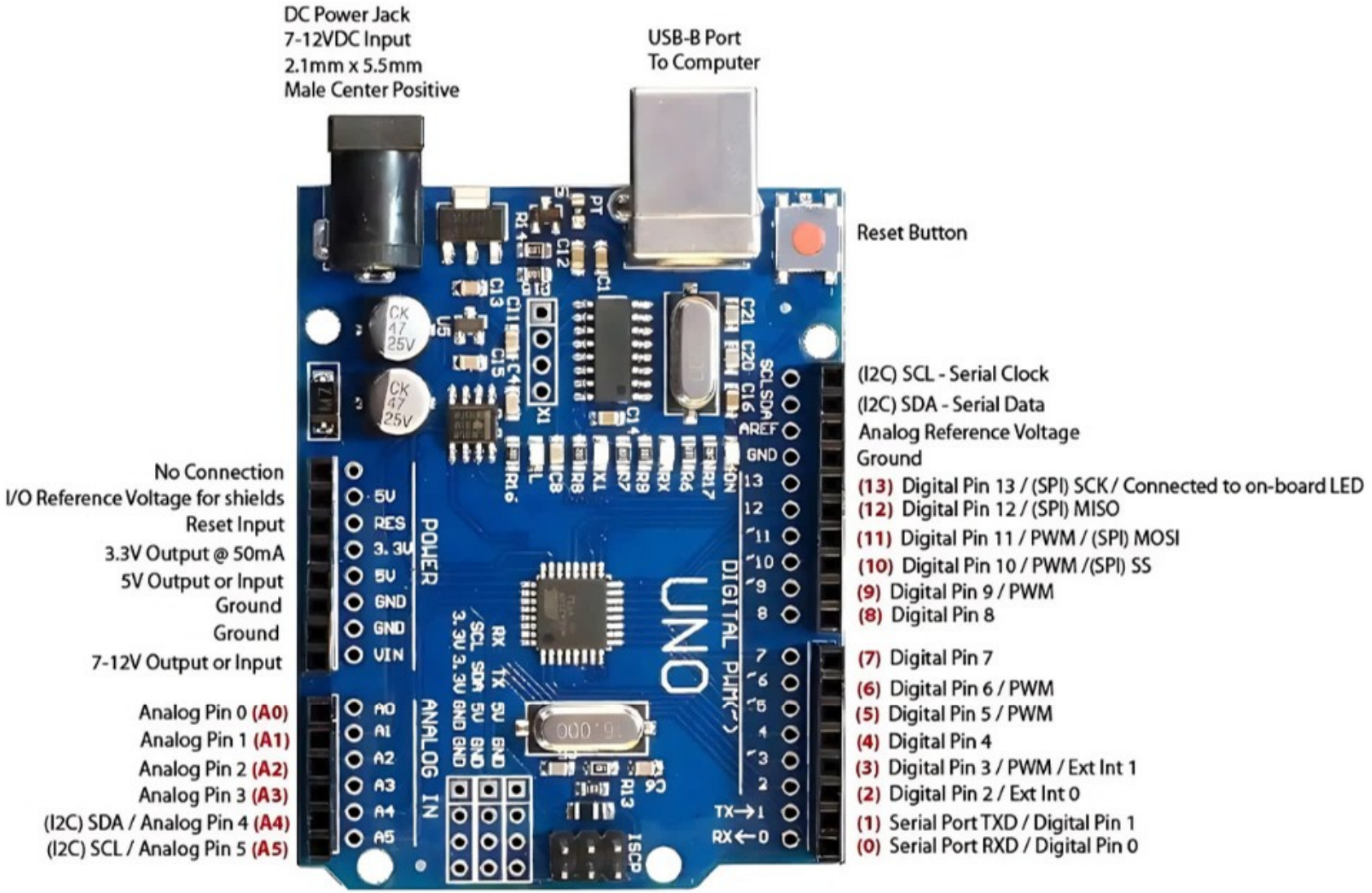
WARARNING

Do Not connect Module with Power Applied! Always apply power after connecting Connect "GND" Terminal first

Electrical Parameters	HC-SR04 Ultrasonic Module
Operating Voltage	5VDC
Operating Current	15mA
Operating Frequency	40KHz
Max. Range	4m
Nearest Range	2cm
Measuring Angle	15 Degrees
Input Trigger Signal	10us min. TTL pulse
Output Echo Signal	TTL level signal, proportional to distance
Board Dimensions	1-13/16" X 13/16" X 5/8"
Board Connections	4 X 0.1" Pitch Right Angle Header Pins

W5100 Ethernet Shield Pinout





Red numbers in paranthesis are the name to use when referencing that pin.
Analog pins are references as A0 thru A5 even when using as digital I/O

DHT11 vs DHT22

Aunque lucen físicamente similares y tiene la misma identificación de pines, estos poseen características diferentes:

DHT11

- Alimentación de 3.3V a 5VDC
- Corriente máxima 2.5mA durante la conversión
- Lectura de humedad con un +/- 5% de precisión
- Lectura de temperatura con un +/- 2°C de precisión
- Capaz de medir humedad de 20% a 80%
- Capaz de medir temperatura de 0 a 50°C
- No más de 1 Hz en velocidad de muestreo (una vez cada segundo)
- Dimensiones: 15.5mm x 12mm x 5.5mm

DHT 22

- Alimentación de 3.3V a 5VDC
- Corriente máxima 2.5mA durante la conversión
- Lectura de humedad con un +/- 2% a 5% de precisión
- Lectura de temperatura con un +/- 0.5°C de precisión
- Capaz de medir humedad de 0% a 100%
- Capaz de medir temperatura de -40°C a 125°C
- No más de 0.5Hz en velocidad de muestreo (una vez cada dos segundos)
- Dimensiones: 15.1mm x 25mm x 7.7mm

De acuerdo a las características es un sensor ligeramente más preciso y cuenta con un rango un poco mayor. Ambos utilizan un único pin digital de salida y son lentos en cierto aspecto, ya que no se puede consultar más de una vez cada uno o dos segundos.