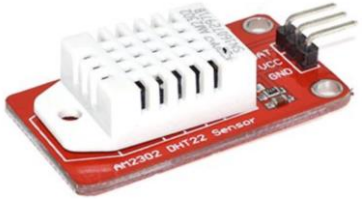
DHT22 Sensor Implementation

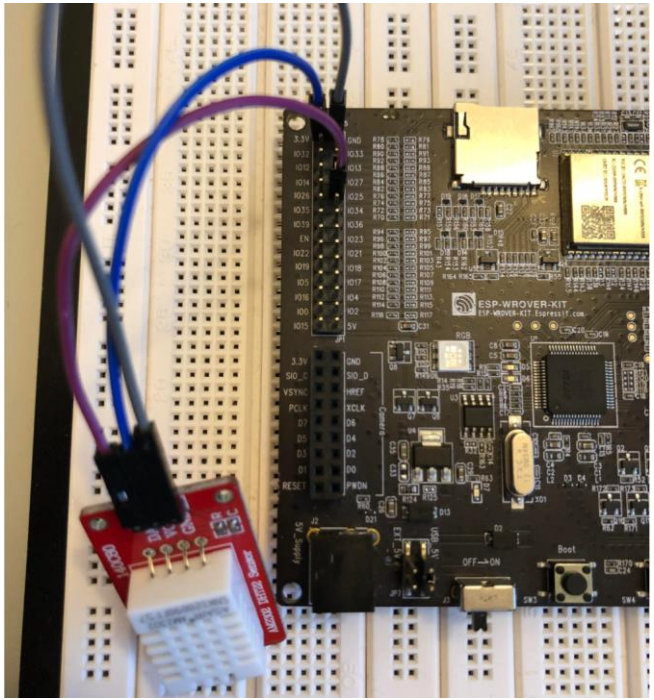
Display Sensor Readings on Web Page

AM2302 DHT22 Temperature and Humidity Sensor Module



- Overview
  - AM2302 Humicap digital temperature and humidity module outputs a digital signal and contains a calibrated temperature and humidity sensor.
  - Only three connections; data, VCC and ground.
  - It uses a dedicated digital modules capture technology and the temperature and humidity sensor technology and provides higher accuracy than the DHT11.
  - Temperature range is -40~80 Degrees Celsius and Humidity Range 20-90%.

Pin Connections: VCC, Data (GPIO 25) and Ground



Our Implementation

About the DHT22 Sensor Implementation

- Implementation
  - We will use an existing library for the DHT22.c and DHT22.h files and will attach to the resources in the next sections – these files will be included under main.
  - Create a FreeRTOS task to read the DHT22 data at a specified interval and test it.
  - Update the index.html, app.css and app.js web page files in order to display the data.
  - Update the web server to respond to GET requests with Temperature and Humidity data from the DHT22 sensor.

Let’s get started!