

The background features a complex network of thin, light-colored lines and dots, forming various triangular shapes and a larger, interconnected web-like structure on the left side. The overall aesthetic is clean and technical.

DHT22 Sensor Implementation

Display Sensor Readings on Web Page

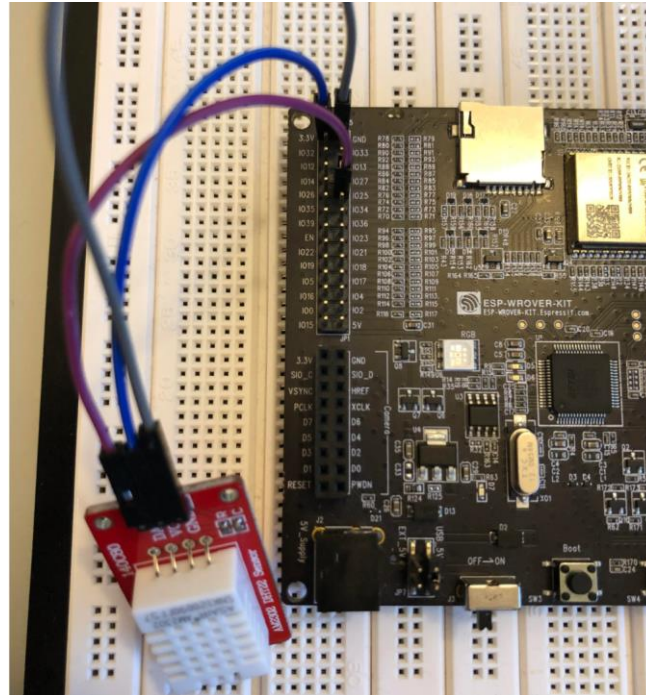
AM2302 DHT22 Temperature and Humidity Sensor Module



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



The background features a complex network of thin, light-colored lines and small circles, forming a web-like structure. Overlaid on this are several translucent triangles of various sizes and orientations. The overall aesthetic is clean and modern, with a focus on geometric shapes.

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.

The background features a complex network of thin, light-colored lines and small circles, creating a web-like or molecular structure. Scattered throughout are various triangles of different sizes and orientations, some of which are filled with a light blue or yellow color. The overall aesthetic is clean, modern, and technical.

Let's get started!