



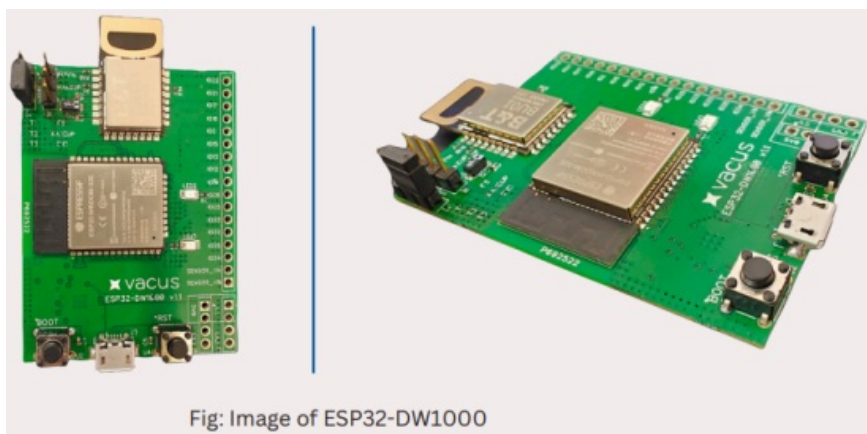
Instruction Manual

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TECH ESP32 WROOM Evaluation Board

Explore the Future of Location Precision with the ESP-DW1000 Evaluation Board
Your Journey towards Innovation Begins with the ESP32-DW1000



Demo Video

Click on the link below to open the video.

Copy and Paste the URL into the browser.

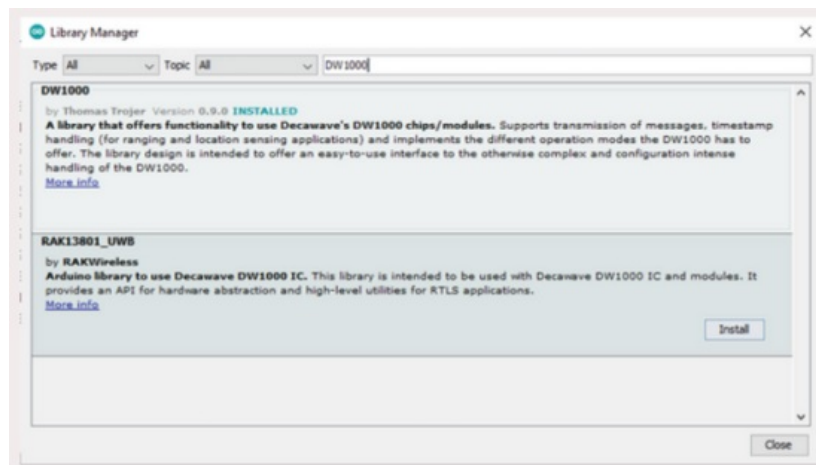
<https://drive.google.com/file/d/1iL8BeEW0ehmeyerVX73UecmaHvSlwtUk/view>

Using the ESP32 DW1000 UWB Board with Arduino IDE

In this guide, we'll learn how to use the ESP32 DW1000 UWB (Ultra Wideband) board with the Arduino IDE to measure the distance between two boards. For this project, you'll need a pair of boards. We'll follow a series of steps to set up the module.

2.1 Installing the DW1000 Library

First, you'll need to install the Arduino-DW1000 library from Thotro. This library provides the necessary functionality to work with Decawave's DW1000 chips and modules in the Arduino environment.

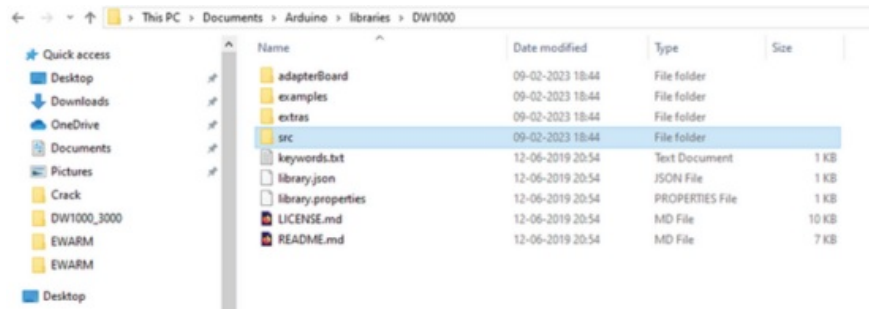


You can also install this library using the Library Manager. Simply search for "DW1000" and click "Install" to add the library to your Arduino IDE.

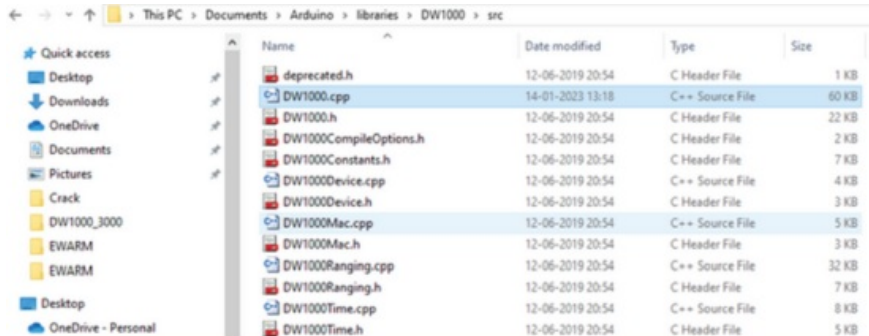
2.2 Modifying the Library

The DW1000 UWB library doesn't compile directly for ESP32 boards, so we need to make some modifications.

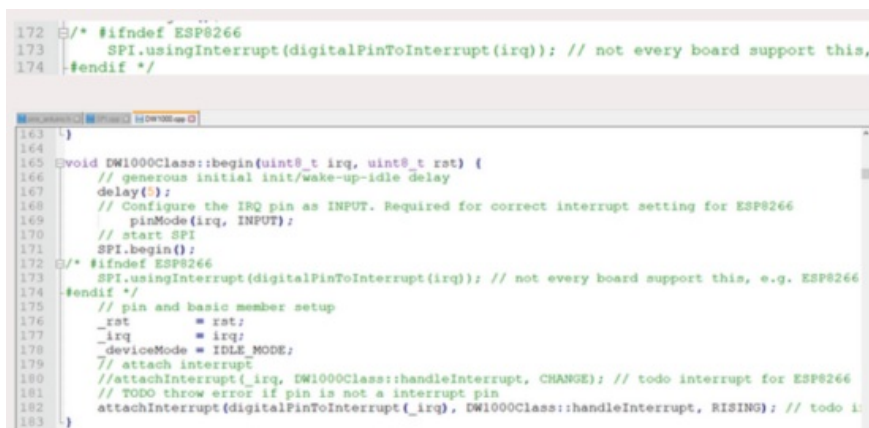
First, navigate to the Arduino library folder and locate the DW1000 folder. Inside that folder, open the "src" folder to access the library's source files.



Open the “src” folder and find the DW1000.cpp file. Use a text editor, such as Notepad++, to open this file.



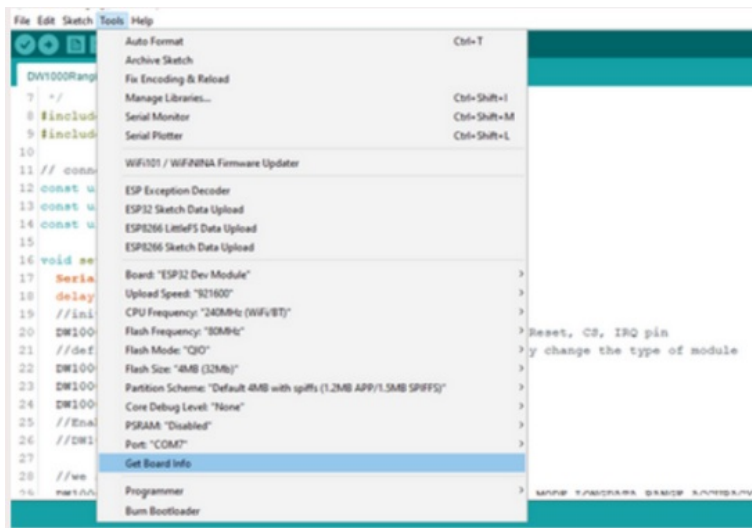
Next, locate the following lines (Line 172) and comment out all three lines.



Once these lines are commented out, the library code will compile successfully.

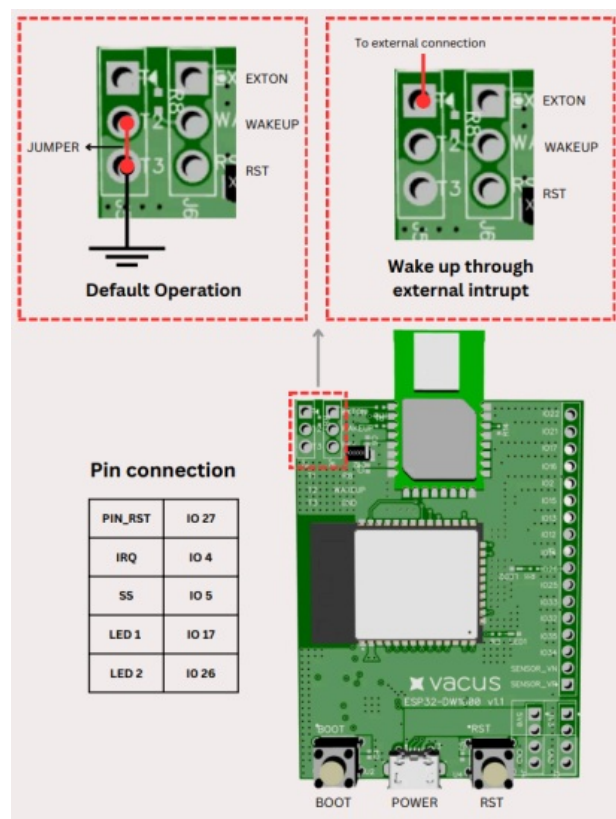
2.3 Board Selection

Connect the pair of ESP32 Wrover boards to two different USB ports on your computer using micro-USB cables. In the Arduino IDE, select the development board: choose “ESP32 Dev Module” if you are using the ESP32 UWB board with the ESP32 WROOM chip. If you have the ESP32 UWB board with the ESP32 WROVER chip, select “ESP32 WROVER Module.”



Also, make sure to select the correct COM port, which you can find in the Device Manager. Your ESP32 Ultra Wideband board is now set up for serial communication.

Hardware



Documents / Resources



[VACUS TECH ESP32 WROOM Evaluation Board \[pdf\]](#) Instruction Manual
ESP32 WROOM, ESP32 WROVER, ESP32 WROOM Evaluation Board,
WROOM Evaluation Board, Evaluation Board, Board

References

- [User Manual](#)

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🔍 Board, ESP32 WROOM, ESP32 WROOM Evaluation Board, ESP32 WROVER, Evaluation Board, VACUS TECH, WROOM Evaluation Board

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