

## AI Overview

To get started with an ESP32 UWB DW1000 Pro, [download the necessary DW1000 and SSD1306 libraries](#), install the ESP32 board support package in the Arduino IDE, and then [upload the Makerfabs example codes for anchor and tag to two separate boards connected to your PC](#). The anchor and tag boards will then communicate to measure and display the distance between them on the tag's display.



### 1. Install ESP32 Board Support

1. Open the Arduino IDE.
2. Install the ESP32 board package if you haven't already by following the instructions in the Arduino IDE.

### 2. Install Libraries

1. **Install the DW1000 Library:** Go to Sketch > Include Library > Manage Libraries and search for 'DW1000' and install it. Alternatively, download the specific DW1000 library from the Makerfabs GitHub repository, rename the zip file to `DW1000.zip`, and install it manually in the Arduino Libraries folder to avoid conflicts.
2. **Install the SSD1306 Display Library:** Install the `Adafruit_SSD1306` library through the Arduino Library Manager for the onboard OLED display.

### 3. Prepare Your Boards

1. Connect two ESP32 UWB Pro modules to your computer using separate USB cables.

### 4. Upload Example Codes

1. **Open the Arduino IDE's Examples:** From the Files > Examples menu, you should find a new folder (e.g., "RD node DW1000") or an example folder from the Makerfabs repository for the DW1000 library.
2. **Upload Anchor Code:** Open the `anchor_display.ino` (or similar) sketch for the anchor, select the "ESP32 Dev Module" board, choose the correct COM port, and upload it to the first UWB module.
3. **Upload Tag Code:** Open the `udp_uwb_tag.ino` or similar tag sketch, select the board and port for the second module, and upload it.

### 5. Test the Ranging System

1. Once uploaded, the anchor board will display "maker fabs UWB anchor," and the tag board will display the distance between the two modules.
2. Move the tag board to see the distance change on its display.

[Dive deeper in AI Mode](#)

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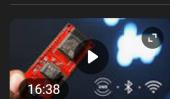
## Videos :



Getting Started with ESP32 DW1000 UWB (Ultra Wideband ...)

YouTube · How To Electronics · Jun 1, 2022

Learn how to use the **ESP32 UWB** board to measure distance and fix antenna delay issues for accurate ranging.



Getting Started with ESP32 UWB board | Ultra Wideband ...

YouTube · techiesms · Mar 30, 2022

Learn how to make your first project on the **ESP32 UWB** board using Arduino IDE.

Getting Started with UWB Pro Boards from Makerfabs | IoT ...



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ESP32 UWB Pro with Display – Makerfabs Wiki



How to set ESP32 UWB Pro module as the anchor port. Prepare the module and connect ...

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Dec 17, 2022

This video is all about **getting started** with the **uwb pro** boards from maker Fabs.



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**ESP32 UWB Pro** board has a range of 200m due to the embedded amplifier chip in the **DW1000 UWB** chip.

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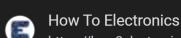


How To Electronics

<https://how2electronics.com/getting-started-with-esp32...>

**Getting Started with ESP32 UWB (Ultra Wideband) Module** ✓

Jun 3, 2022 – In this tutorial, we will go through the **board design, specifications, and applications**. Then we will learn how to use the ESP32 DW1000 embedded ...



How To Electronics

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**ESP32 UWB Pro - Ultra Wideband Module with Amplifier** ✓

In this comprehensive guide, we will explore Ultra Wideband Technology using the **ESP32 UWB Pro Module**. This module is equipped with a DW1000 UWB Chip, as well ...



Makerfabs Wiki

[https://wiki.makerfabs.com/ESP32\\_UWB](https://wiki.makerfabs.com/ESP32_UWB)

**ESP32 UWB/UWB Pro** ✓

The **DW1000** is a single-chip wireless transceiver based on **ultra-wideband** technology, providing a new approach to real-time location and indoor location systems, ...



Instructables

<https://www.instructables.com/Circuits-Arduino>

**ESP32 UWB Indoor Positioning Test : 4 Steps** ✓

Step 1: Overview. 1.1 Introduce. **DW1000** is the **world's first single-chip wireless transceiver** based on Ultra-Wideband techniques. It provides a new approach to ...



Makerfabs Wiki

[https://wiki.makerfabs.com/ESP32\\_UWB\\_Pro\\_with\\_Di...](https://wiki.makerfabs.com/ESP32_UWB_Pro_with_Di...)

**ESP32 UWB Pro with Display** ✓

Prepare the module and connect it to the PC with a **Type-C cable**. - There is a sketch(**anchor\_display.ino**) for the setting, the sketch is available on GitHub.



Qorvo Tech Forum

<https://forum.qorvo.com/.../Ultra-Wideband>

**2 tags and 2 anchors - dw1000 esp32 uwb pro** ✓

Oct 17, 2023 – Hello there, I currently have four(4) **DW1000 ESP32 UWB Pro** devices from Makerfabs, which I intend to employ in a moving position tracking ...

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GitHub

<https://github.com/Makerfabs/Makerfabs-ESP32-U...>

**Makerfabs ESP32 UWB & Display** ✓

Install board : **ESP32** . Rename **mf\_DW1000.zip** to **DW1000.zip** and install it. . Install library :

**Adafruit\_SSD1306** . Upload code, select board "**ESP32 DEV**".

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What is the range of DW1000 UWB?



What is DW1000?



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