

Programming the ESP32LRXX with Arduino studio

Customising the ESP32LR20, ESP32LR42 or ESP32LR88 can easily be achieved by using the Arduino studio and importing the required libraries.

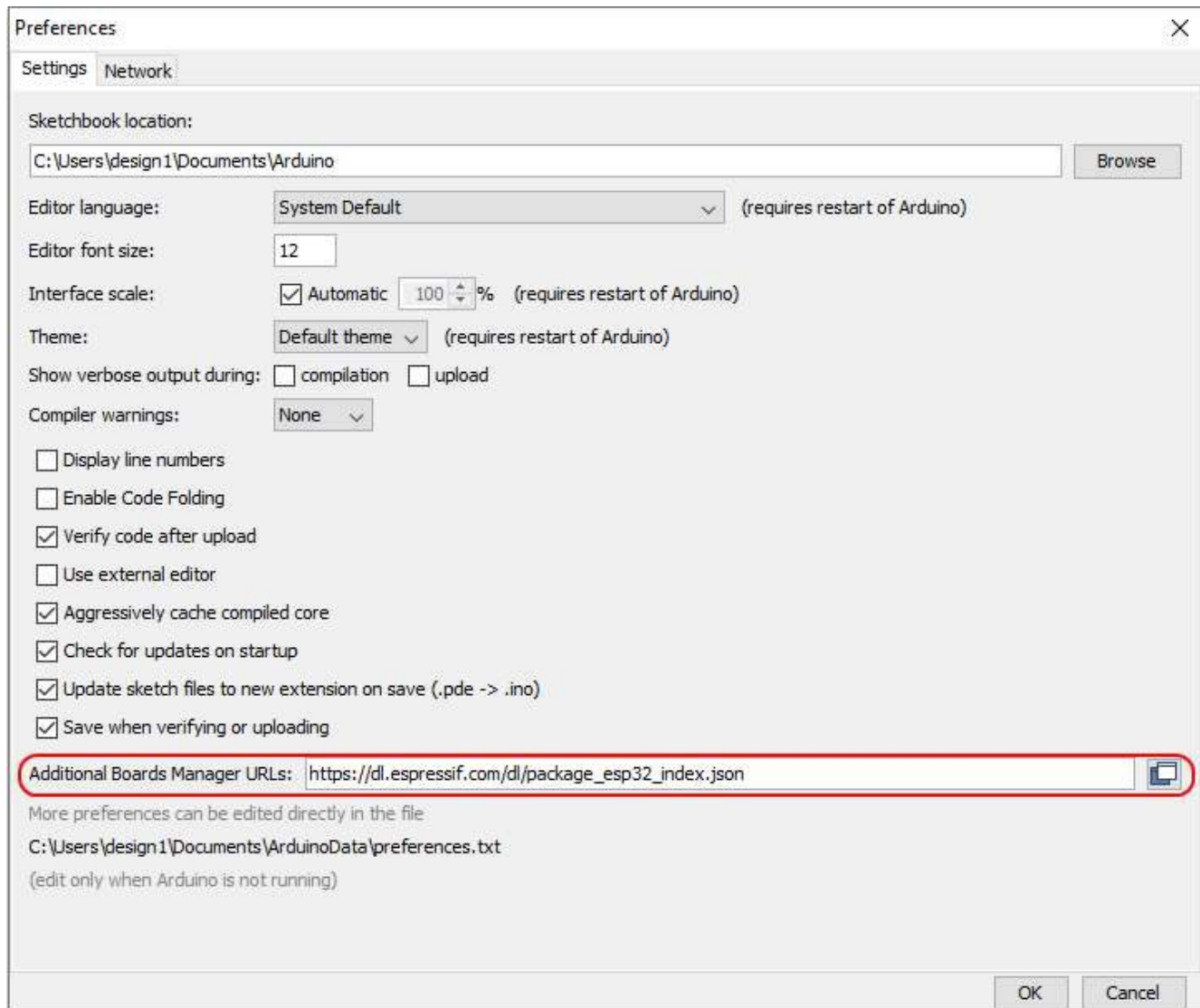
Step 1 – Arduino IDE installation

Obtain and install the latest Arduino IDE from <https://www.arduino.cc/en/Main/Software> it should be the latest to ensure compatibility.

Step 2 – Add the ESP32 library URL to the Arduino IDE

Go to File>Preferences

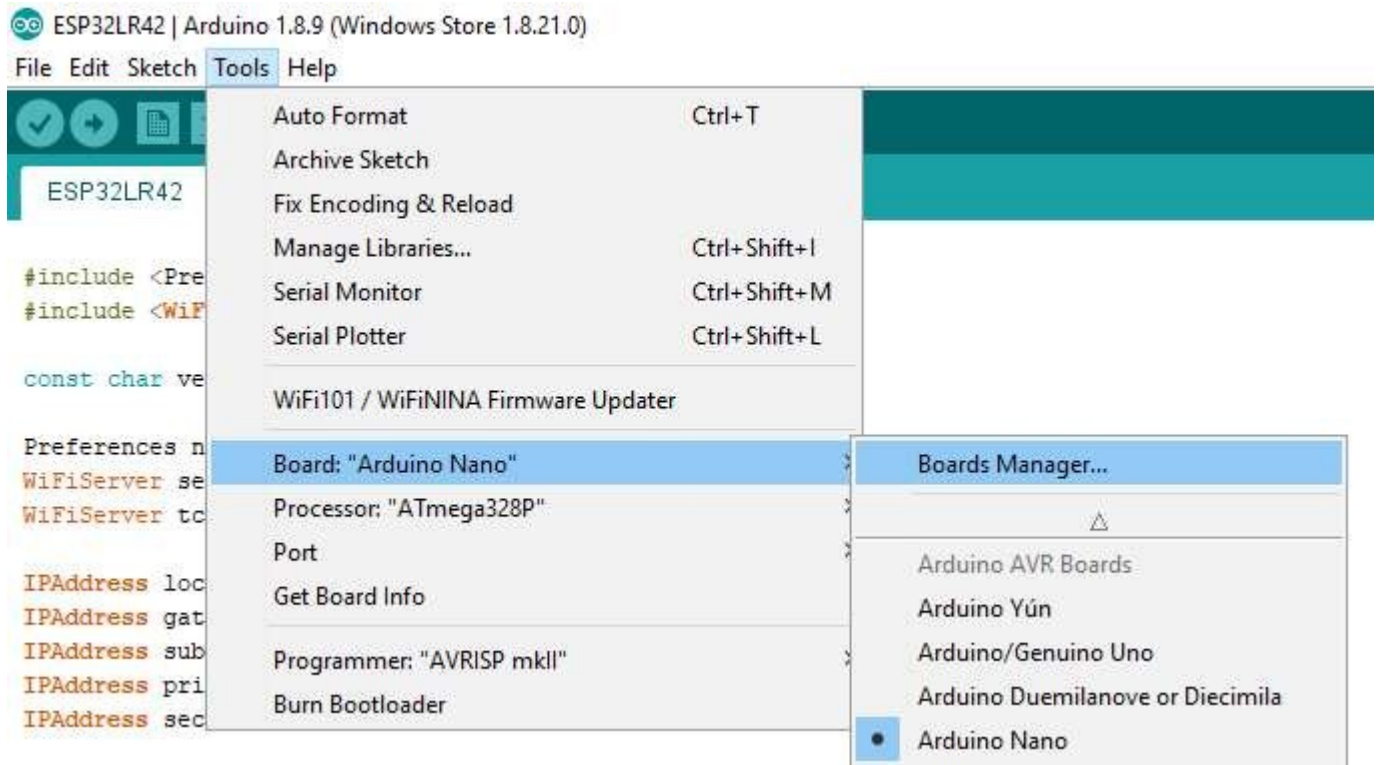
Now in the Preferences screen below we need to enter https://dl.espressif.com/dl/package_esp32_index.json into the “Additional Board Manager URLs” option. If you already have libraries added you may need to add a comma between the URLs



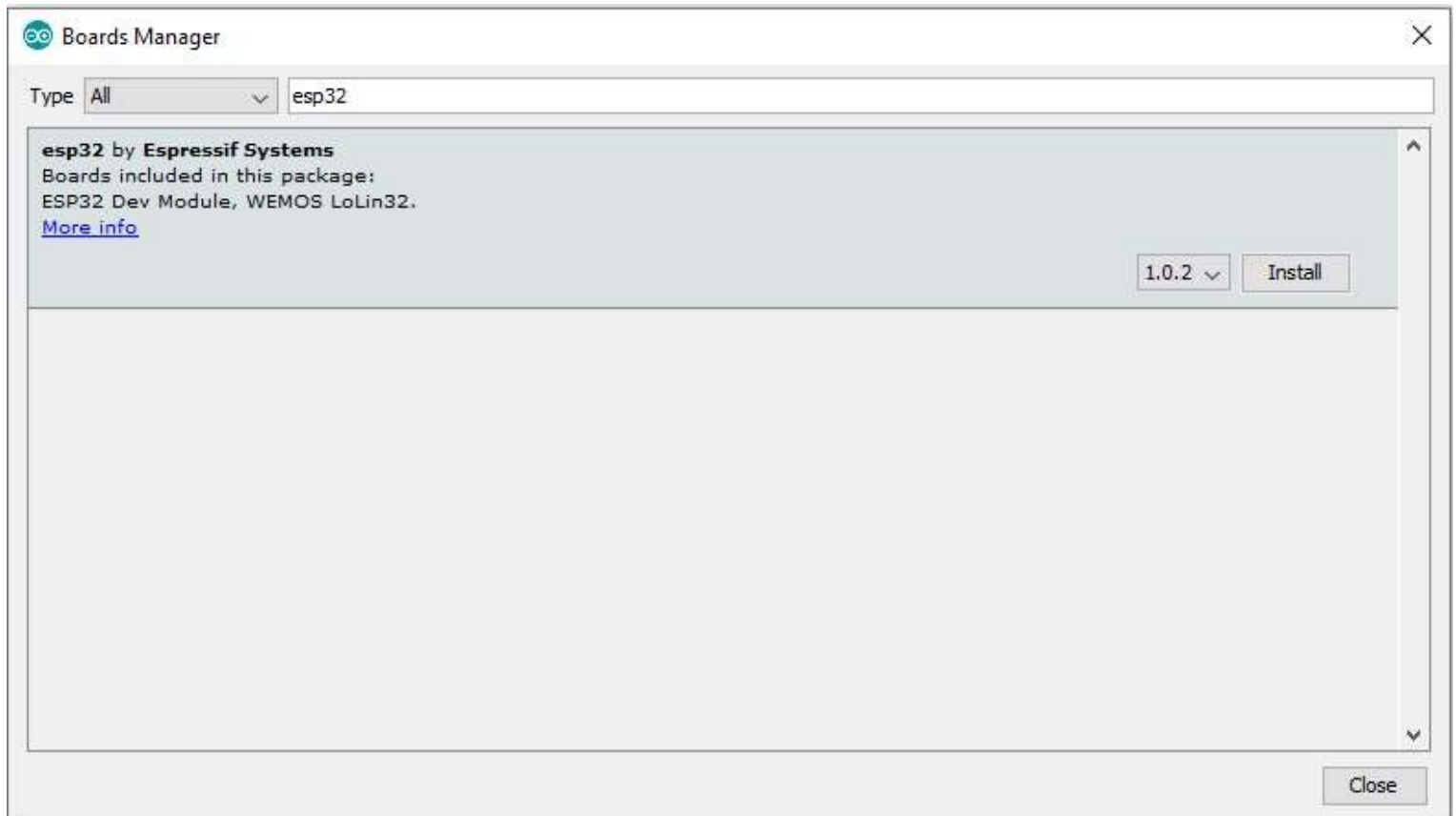
You can now click the OK button to finish with this screen.

Step 3 – Install the ESP32 library

Go to Tools>Board:>Boards Manager...



Now filter by “esp32” and install the Espressif Systems library



Step 4 – Board selection

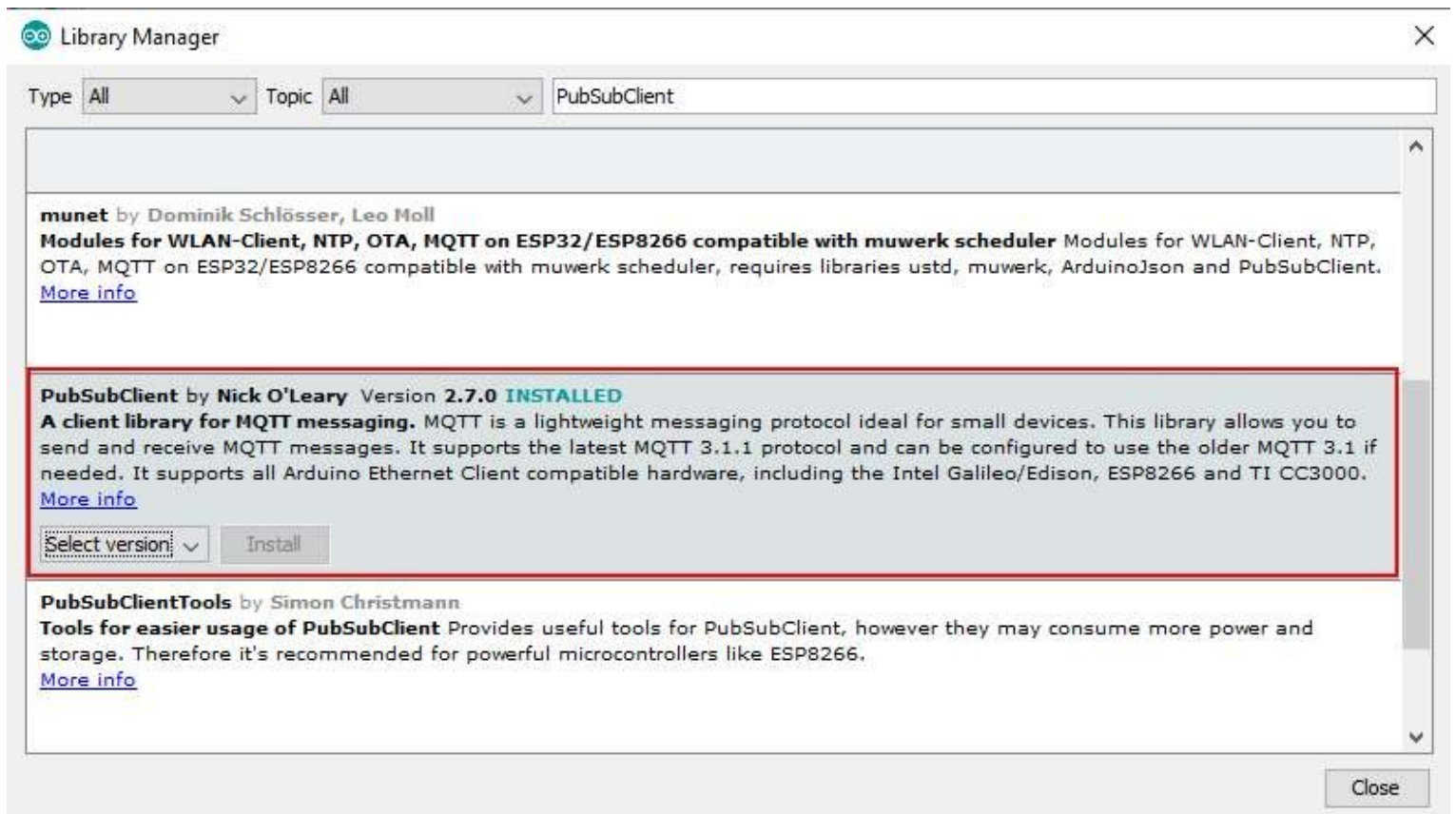
Go to Tools>Board:> and select ESP32 Dev Module



Step 5 – Add MQTT library

Go to Tools>Manage Libraries...

Filter by PubSubClient and select PubSubClient by Nick O’Leary, then press the install button



That’s it! Your Arduino IDE should now be able to program the ESP32LRXX modules. The factory shipped code is available Here: <https://github.com/devantech>