# TECH NOTE

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | **SMT001** | **Author:** | **Will Goodman** |
| **Date:** | **04/07/22** | **Document No.:** | **TN\_SMT001\_03\_WindowsBuild\_Iss0.1** |

|  |
| --- |
| **Subject** |
| **Getting the software working under Windows** |

The recommended IDE and toolchain is Visual Studio Code, using the ESP-IDF extension (I tried to get everything going using Platform IO but did not have any luck).

Install the ESP-IDF extension and the C/C++ extension pack.

Hit F1 and type ESP-IDF: Add vscode configuration folder.

Hit F1 and type ESP-IDF: configure ESP-IDF extension. Choose the express installation option and wait for the installation to complete.

Open the SMT001\_REPO.code-workspace file from the latest project folder provided by Cubik, clean and build.

(I managed to get this working by creating a new project from the ESP examples, and then running menuconfig from the F1 menu to enable Bluetooth.)

I was then able to flash an ESP-CAM board and insert it into the DALI board. A jumper cable was connected between pins 1 and 7 of J1 to emulate a low signal from a PIR sensor, and the DALI board was powered. The lamp will light initially but should go dim after a few seconds. Removing the jumper cable from J1 will enable the on board LED on the ESP-CAM board, and the lamp will be set to full brightness.

It is not recommended to try and run the ESP-CAM board from the USB to UART 3.3V, as I have seen this triggering the brownout detector.