# Evaluation & Development

INP3010/3011/3012/3013/3014/3015 EVB-A Development Boards are equipped with all the features to evaluate Talaria TWO module’s performance and capabilities. They can be used for initial system integration and development as well.

The SDK software package (freertos\_sdk\_x.y.zip) provides software APIs with ready-to-run firmware examples to support quick evaluation and development of MQTT/HTTP/HTTPS/AWS and AZURE IoT Cloud applications with Talaria TWO.

It is necessary to set-up the programming environment to ensure that all the required tools are set-up to successfully write the code, compile and run applications on Talaria TWO.

### Environment Set-up Prerequisites

#### Linux Users

Install the following tools:

1. GCC and Cross Compilation tools
2. GNU Toolchain for ARM Embedded
3. Python3 and dependencies
4. OpenOCD

Eclipse users, refer: Eclipse\_Setup\_Linux for installing the required tools.

#### Windows User

Eclipse users, refer: Eclipse\_Setup\_Windows for installing the required tools.

Get started by programming basic applications.

## Programming

There are two ways in which Talaria TWO can be programmed for evaluation and/or development:

* Programmer tool (Download Tool)
* Command Line Interface (CLI)

## Debugging

For debugging an application during development, GDB is used.

For real time debugging using Linux:

1. Debugging using GDB
2. Debugging using Coredump

For real time debugging using Windows:

1. Eclipse plugin

## Memory Mapping

Talaria TWO’s flash memory layout in both development and production phase.