Type1LD Evaluation Board Quick Start Guide

Document Number:	N1-4629
Version:	2.0’
Release Date:	2021/2/26

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Revision History

Revision Number	Release Date	Comments
Revision 1.0	2018/4/16	Initial
Revision 2.0	2021/2/26	Update for .patch platform file

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1. About this Document

1.1. Purpose and Scope

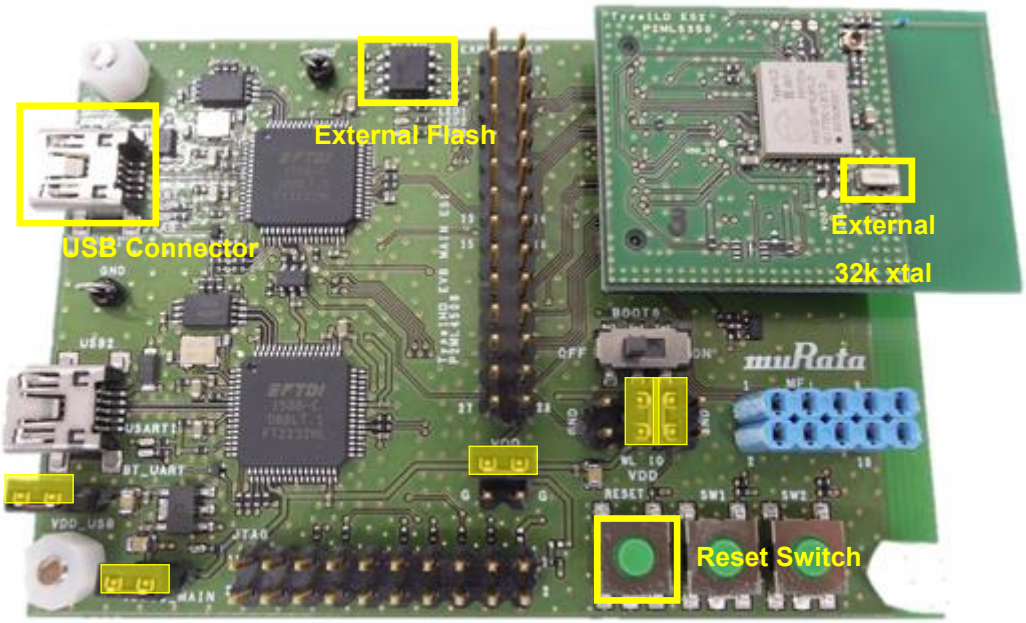
This document provides instructions to set up Murata Type1LD EVB. Although Type1LD is supported by WICED-SDK, some modifications will be required to use our EVB. We provide the modification as “platform file”.

1.2. Document Conventions

Platform file – the source code to configure for each platfoms.

2. Evaluation Board

Verify pin setting for correct operation as below. Use the USB Connector marked in below.



3. Setting up the WICED Studio and Building a Demo Application

The WICED SDK is available for download from the Cypress WICED website.

To use the SDK, the following steps must be performed:

A) Download WICED-SDK from the WICED website.

https://www.cypress.com/products/wiced-software

B) Install the WICED-SDK.

Note: WICED directory is at "C:\Users\<user name>\Documents\WICED-Studio-<VERSION>" with default installation.

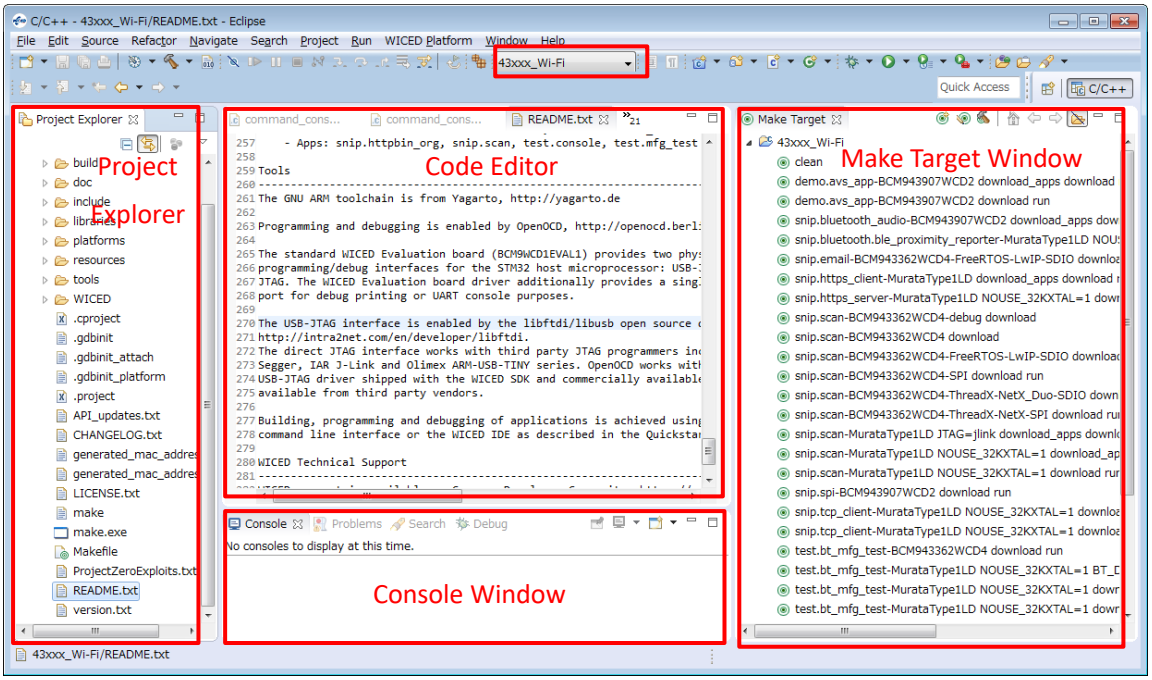
C) Connect the Evaluation board to your PC via the mini USB cable.

Type1LD should be detected as "WICED USB Serial Port (COMXX)". ("XX" is the serial port number.) If Type1LD cannot be detected, you may manually install the driver from <WICED-Studio>\Drivers\Windows\

D) Start the WICED-SDK

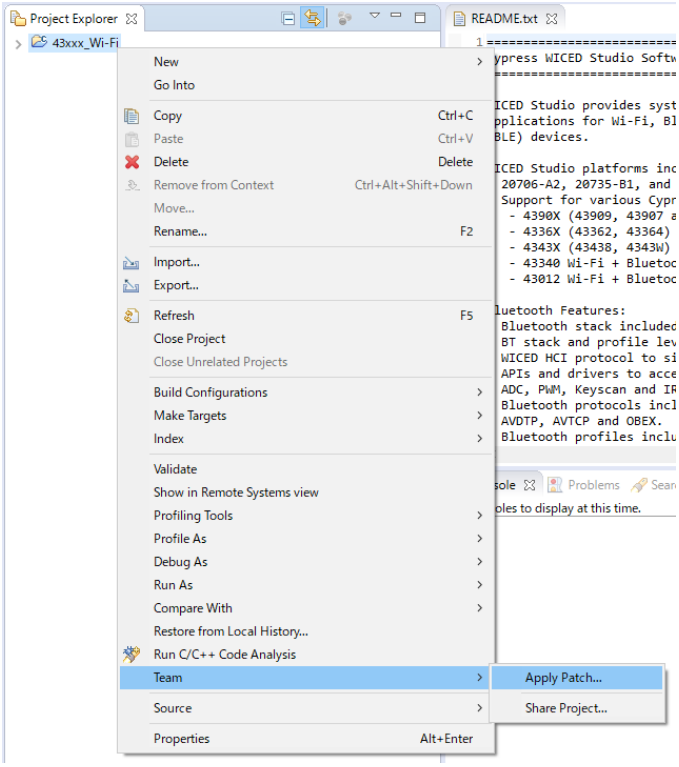
Start the WICED Studio by selecting *START > Cypress > WICED-Studio*.

Select target "43xxx_Wif-Fi" or "WICED Filters off".

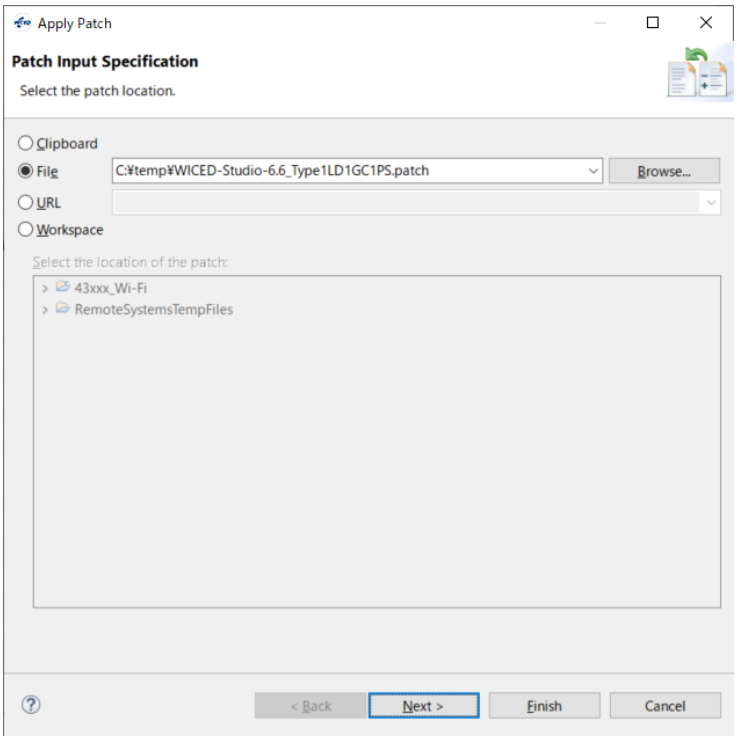


E) Apply the patch file provided by Murata.

a) Right click on 43xxx_Wi-Fi in Project Explorer, then select Team – Apply Patch…

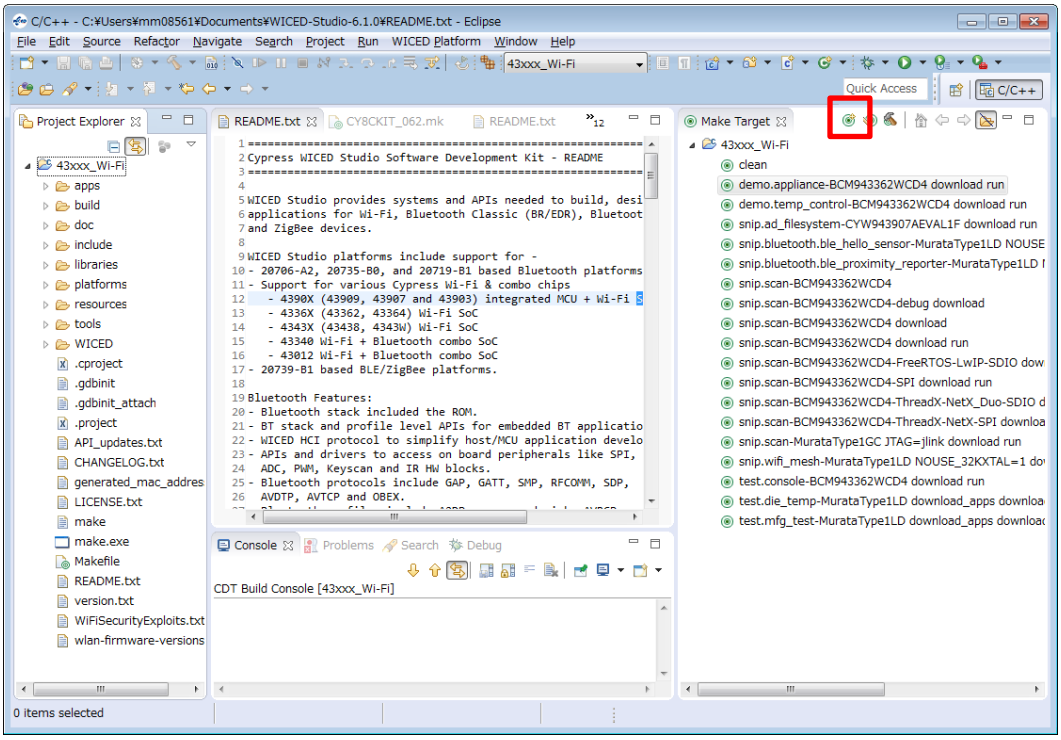


b) Click Browse button and select the patch file, then click Finish button.



F) Build and download the application.

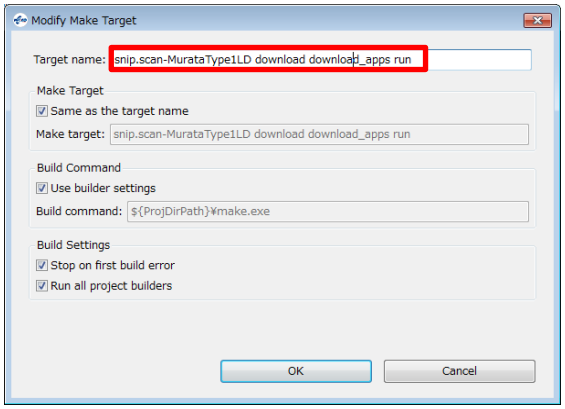
a) Click “New Make Target”. (If you cannot click this button, click “clean” in below list)



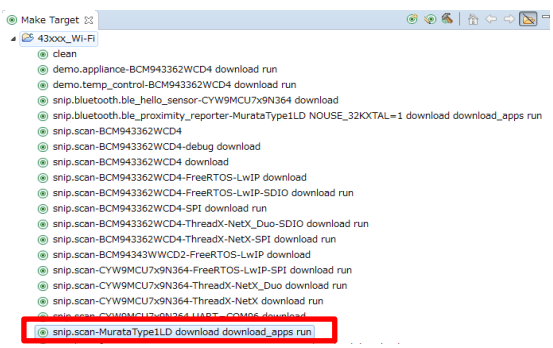
“Create Make Target” window will appear.

b) Input the following text to the “Target name” field.

snip.scan-MurataType1LD download download_apps run

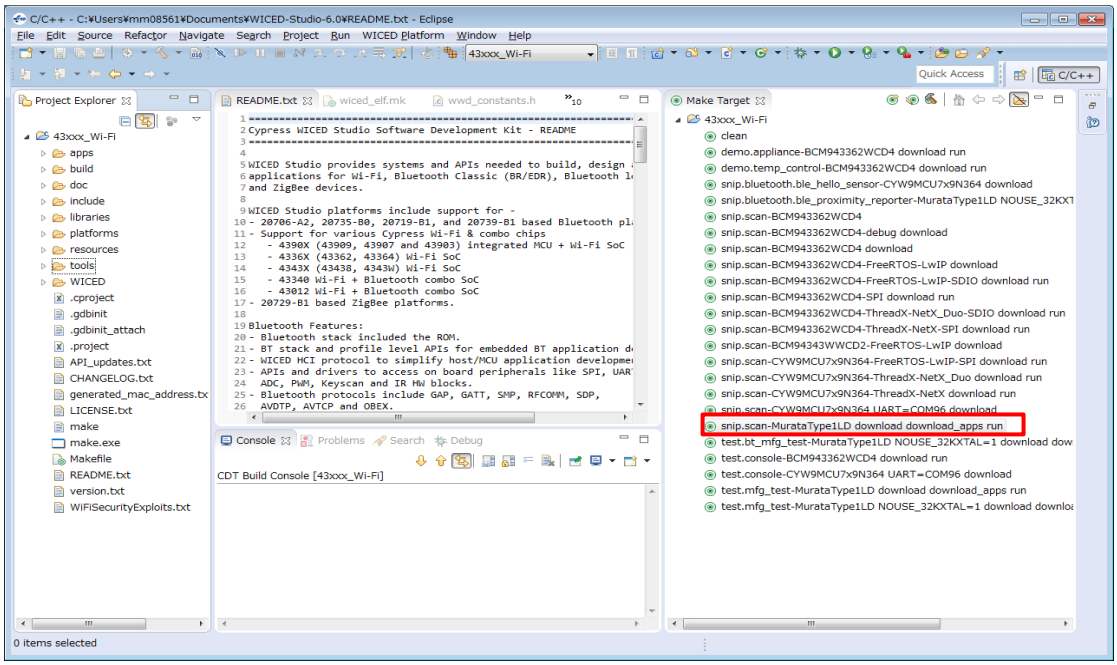


c) Select “OK” and confirm that the new target have been added in the “Make Target” area.



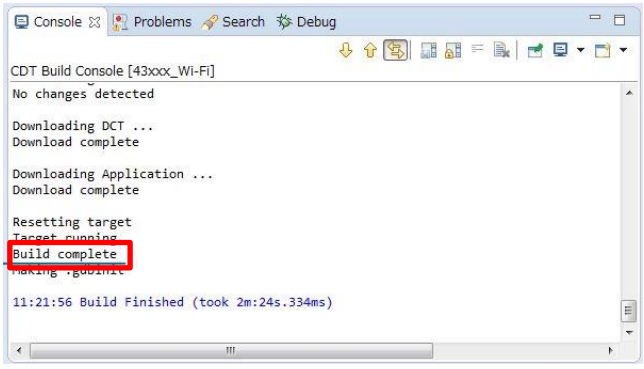
G) Double-click on the Make Target “snip.scan-MurataType1LD download download_apps run” to build the application.

Note: It will take some minutes for first building.



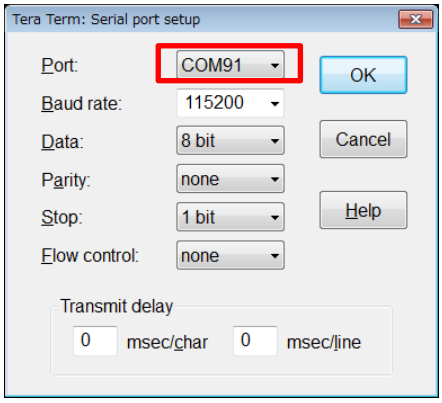
H) Building progress will be displayed on the window of the “Studio Console”.

I) “Build complete” indicates that the building and downloading of the application has been successful.

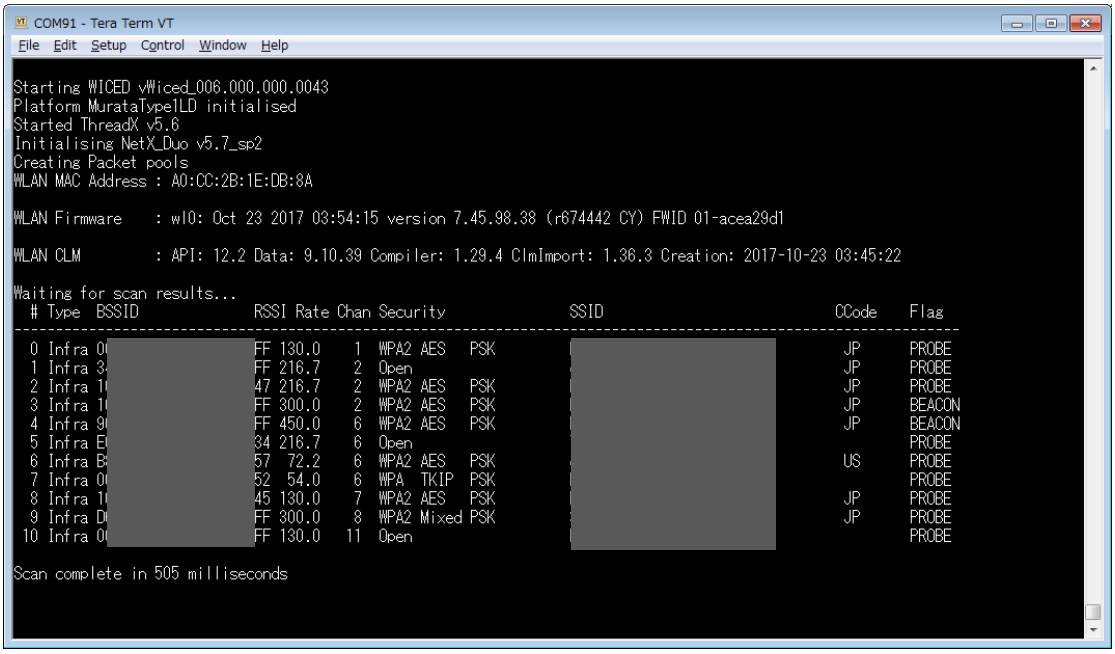


4. Running scan Application

To verify the application which is downloaded in section 3, you need to launch a terminal software such as Tera Term. Please select [Setup] > [Serial Port…] in the menu bar to setup serial port. Please use the following settings for the COM port connection.



The following texts will appear on Tera Term



5. Notes when using external 32k XTAL

If the BT application is not running with external 32k xtal, 32k xtal's initialization process may need to be added on BT application.

5.1. Change the application source

A) Open the application source

Example: 43xxx_Wi-Fi\apps\test\bt_mfg_test\bt_mfg_test.c

B) Confirm whether "wiced_init()" is called

If "wiced_init()" is called in "application_start()" , no need to add anything.

If "wiced_init()" is not called, do [C). Add the function call] as below.

C) Add the function call

Add below two lines at "application_start()" function.

"#include "platform/wwd_platform_interface.h" and "host_platform_init_wlan_powersave_clock();"

```
#include "platform/wwd_platform_interface.h"

////

void application_start( )
{
    /* Initialise WICED */
    wiced_core_init( );

    host_platform_init_wlan_powersave_clock();

    /* Enter BT manufacturing test mode */
    bt_mfgtest_start( &stdio_config );
}
```

5.2. Re-build the application and confirm the application running

(END)