BMS Firmware
Eclipse installation & firmware flash Guide

Version	0.1
Status	Draft
Date	14-Feb-2022

Template Version: 1.2

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1 DOCUMENT DETAILS

1.1 Document History

Version	Author		Reviewer		Approver	
	Name	Date (DD-MM-YYYY)	Name	Date (DD-MM-YYYY)	Name	Date (DD-MM-YYYY)
Draft 0.1	Ashvin Ramani	14-Feb-2022	Tejendra Joshi			

Version	Description Of Changes
Draft 0.1	Newly Created

Table 1: Document History

1.2 Definition, Acronyms and Abbreviations

Definition/Acronym/Abbreviation	Description
BMS	Battery Management System

Table 2: Definition, Acronyms and Abbreviations

2 INTRODUCTION

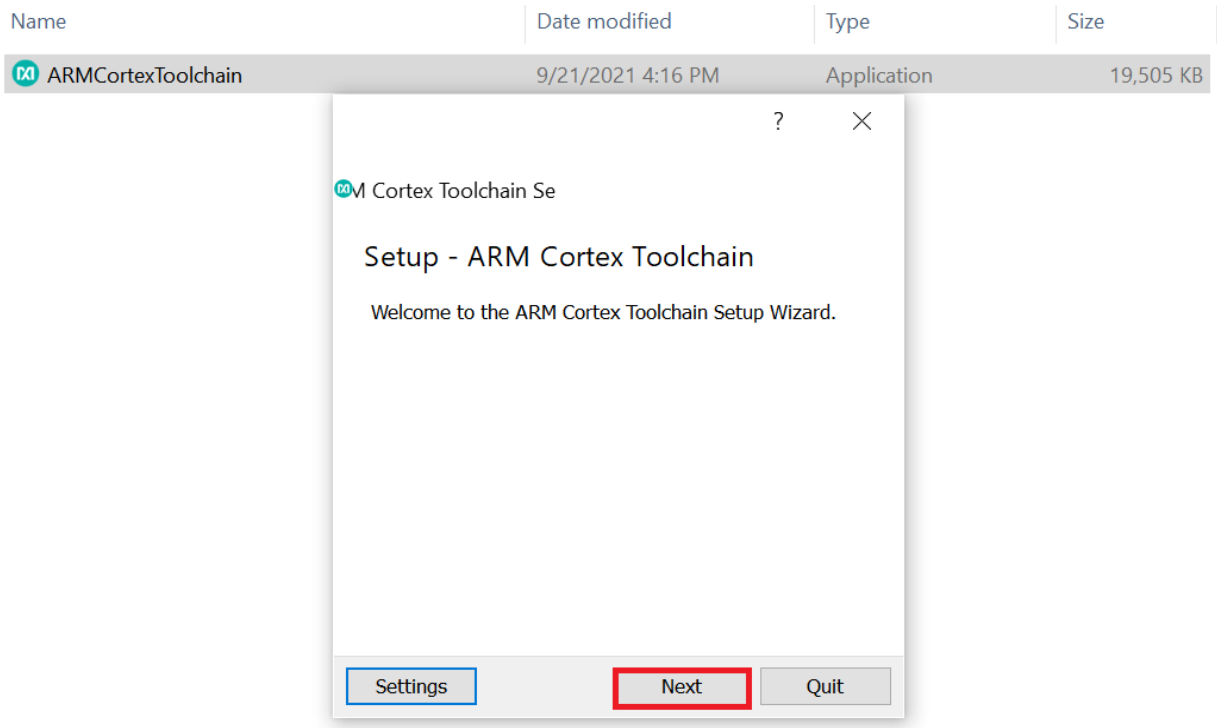
2.1 Purpose of the document

The purpose of the document is to describe the installation of required software to build BMS Master firmware source code and steps to flash the BMS firmware into BMS board.

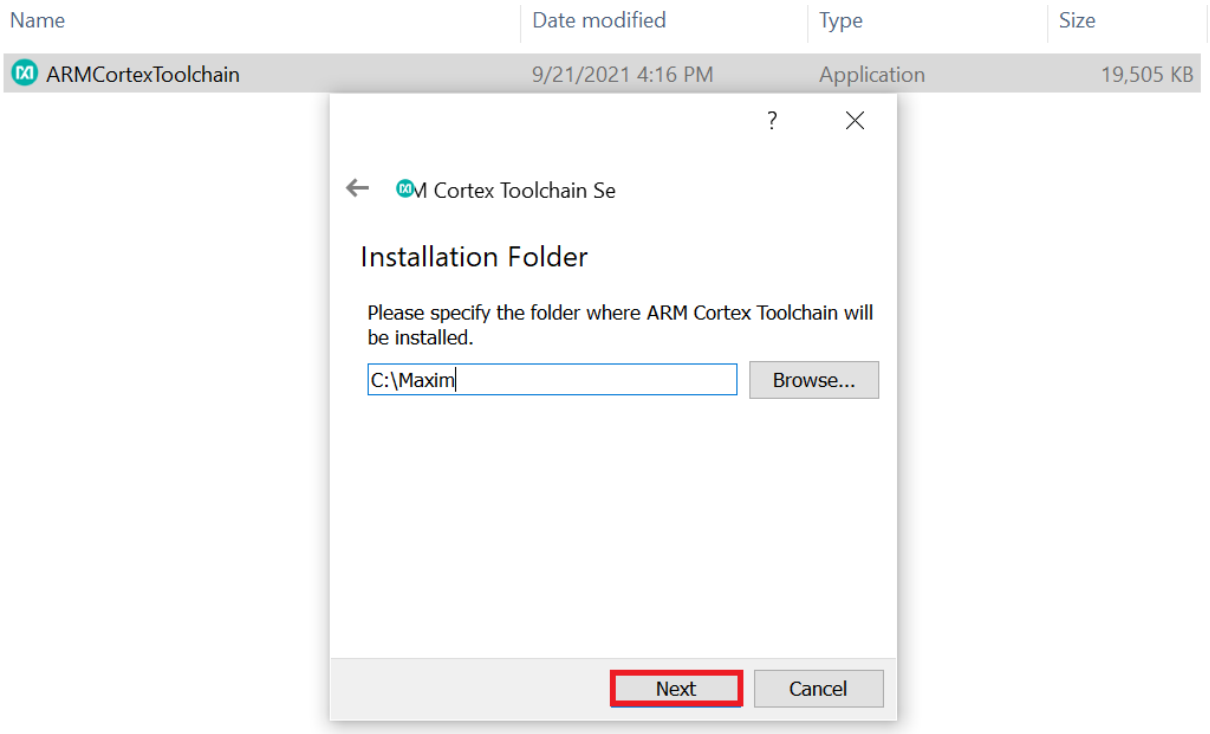
3 MAXIM TOOL CHAIN INSTALLATION

1. Download & install “ARMCortexToolchain.exe” from <**ARMCortexToolchain**> and the version is 1.2.0 or above.

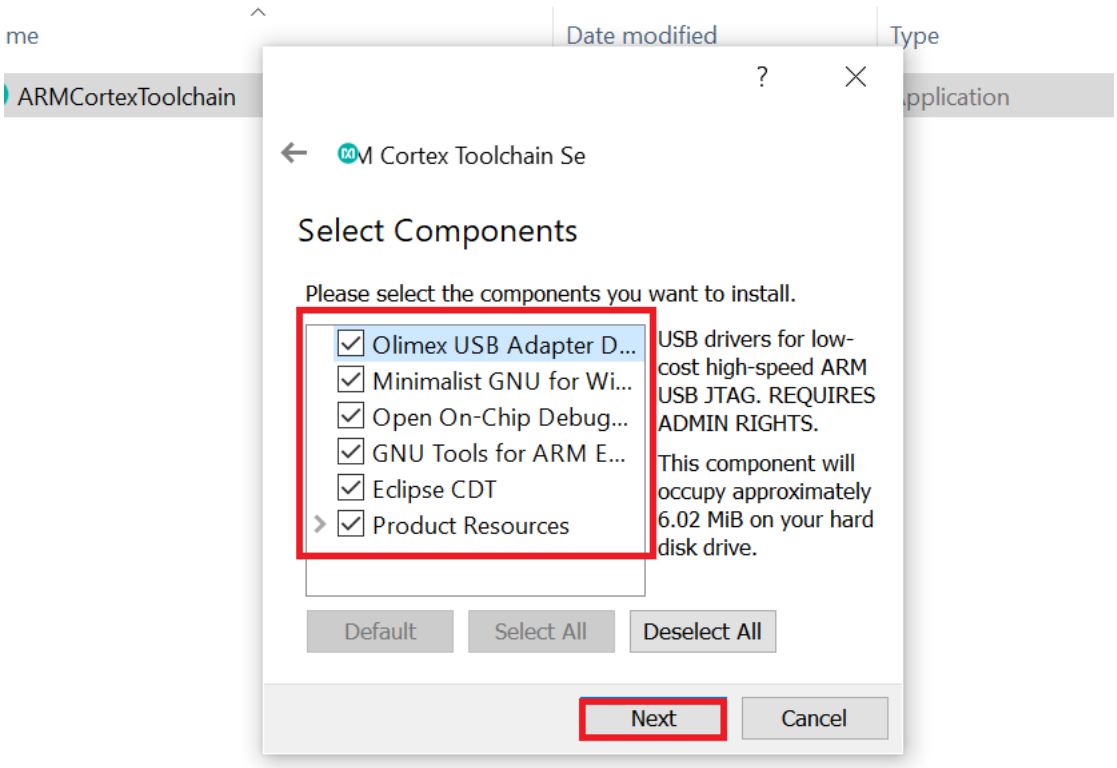
2. Run the ARMCortexToolchain.exe file and click Next



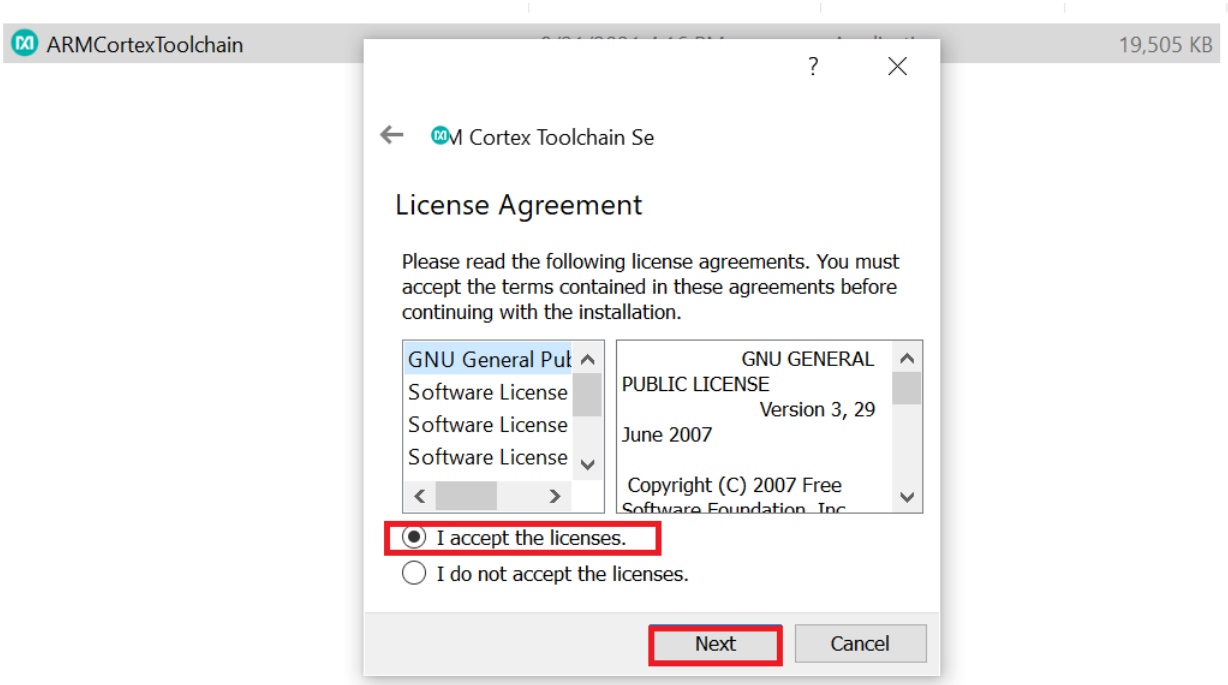
3. Specify the folder and click Next



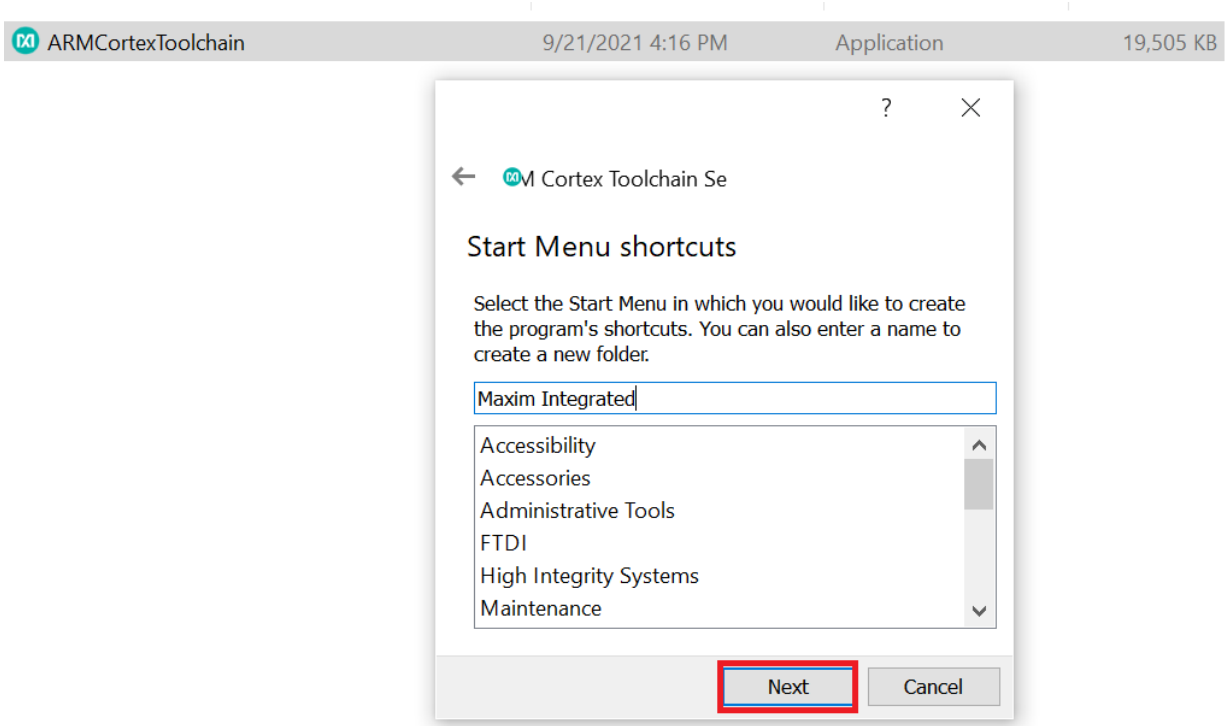
4. Select all components and click Next



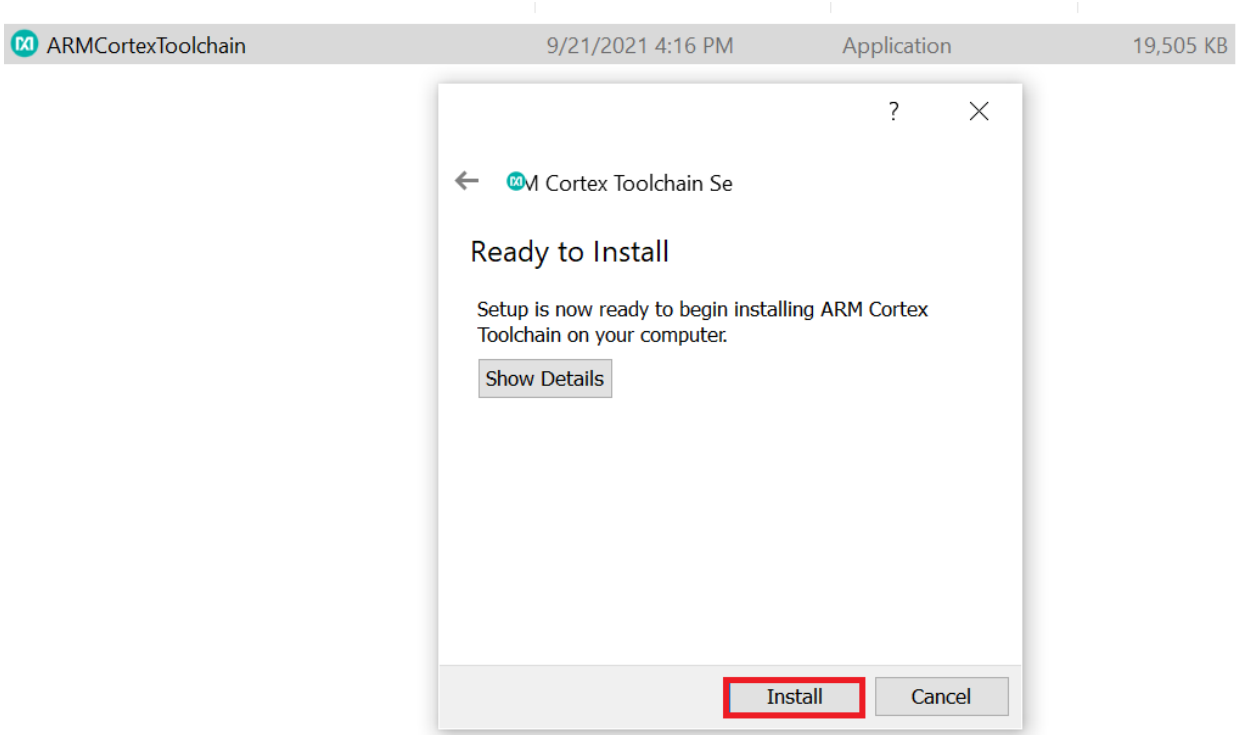
5. Accept the licenses and click Next



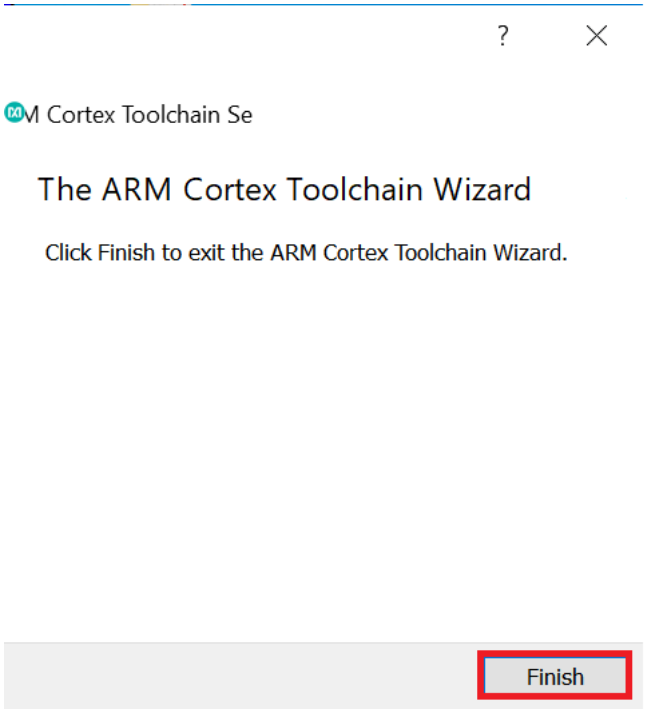
6. Click Next



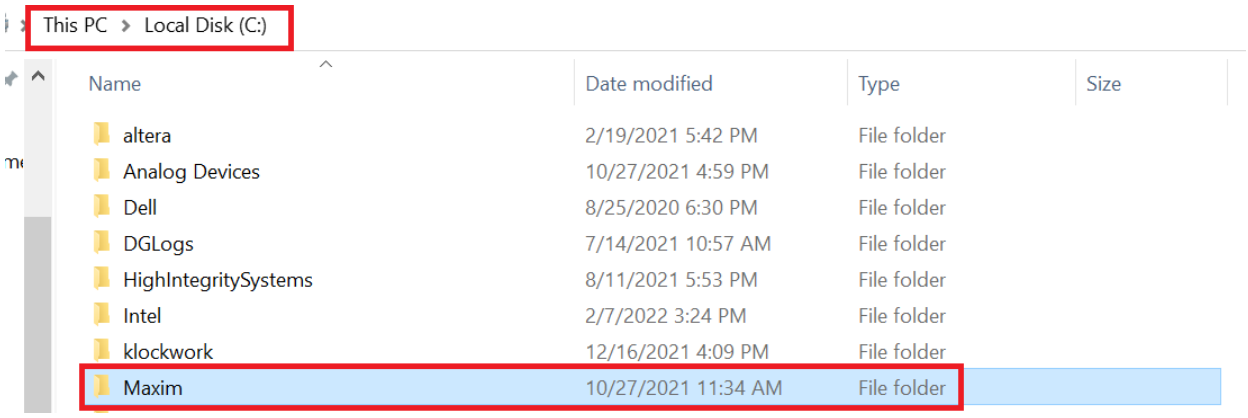
7. Click install: Installation process will start.



8. Once installation is done then click Finish

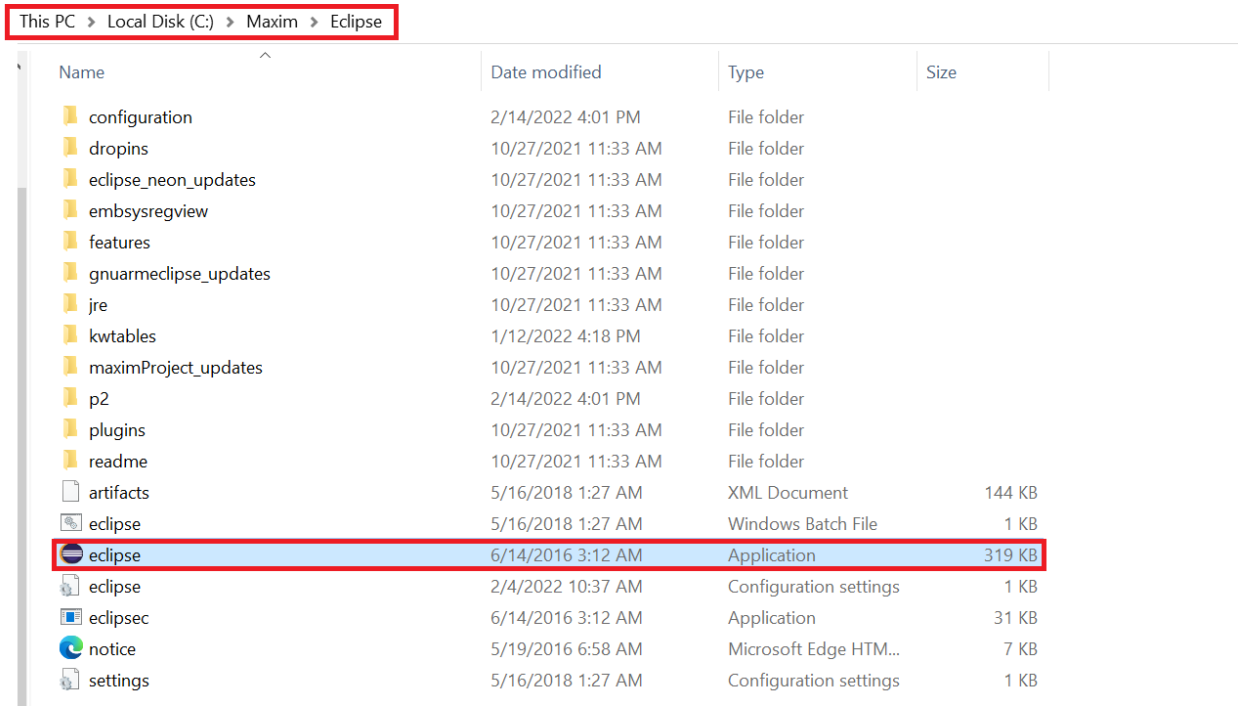


9. Maxim tool chain is installed on specified path as per below image.

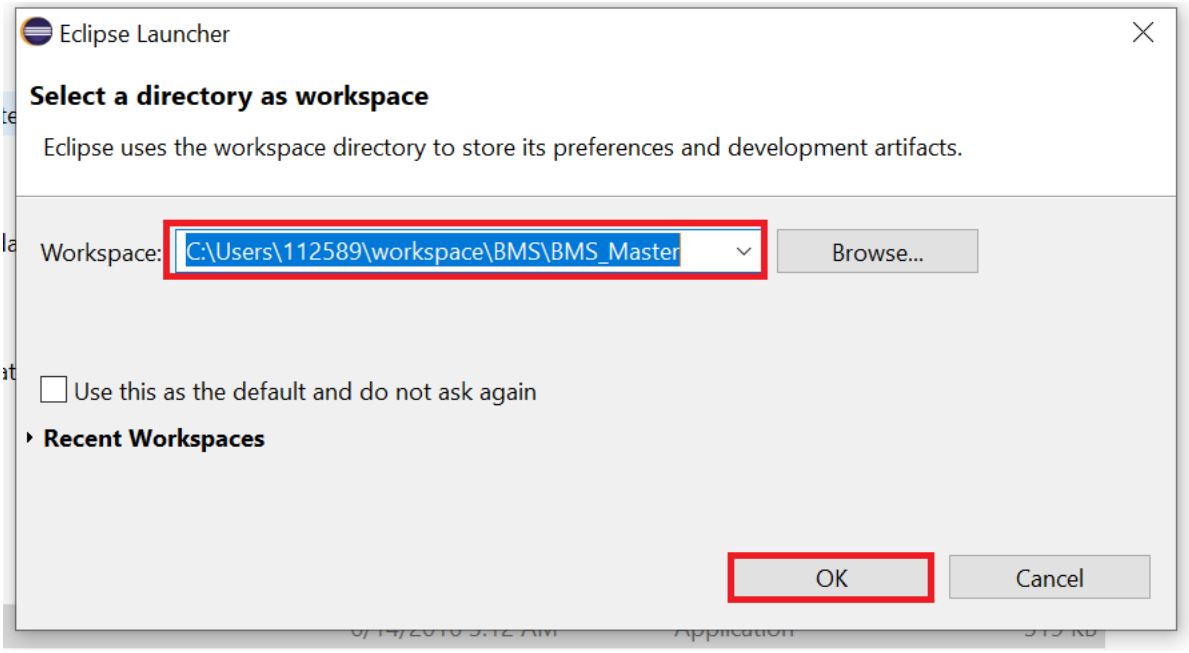


4 IMPORT, BUILD & FLASH THE FIRMWARE

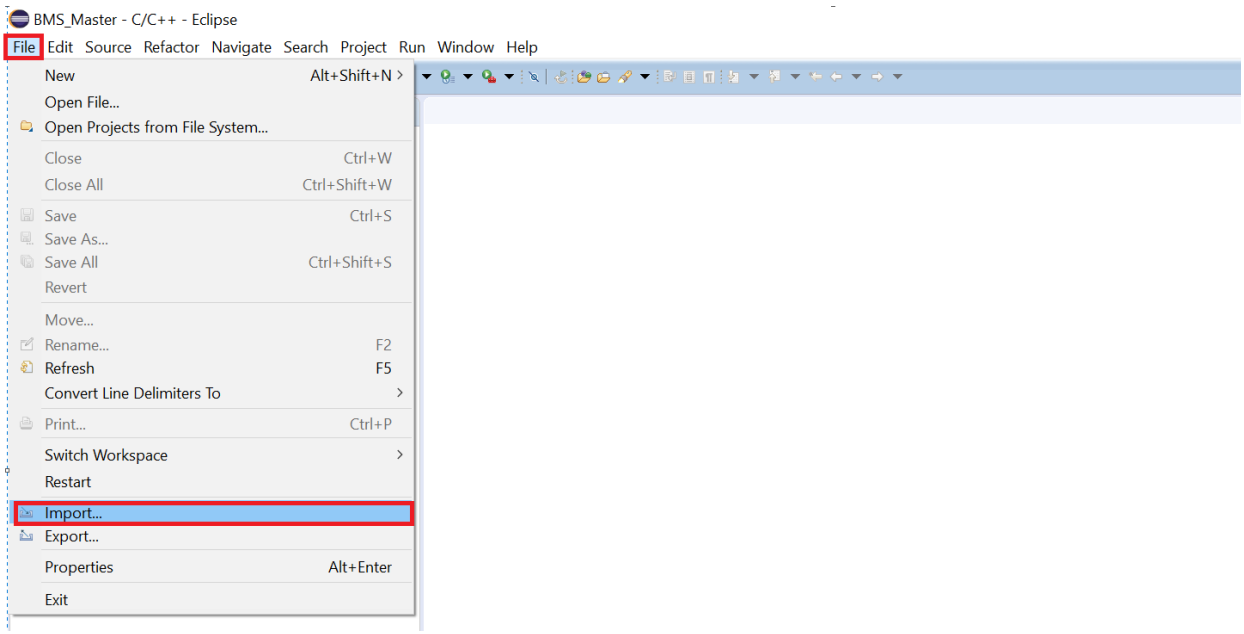
1. Download the BMS Firmware from EIC deliveries and extract the zip file.
2. Run “eclipse” from Maxim->Eclipse folder as per below image.



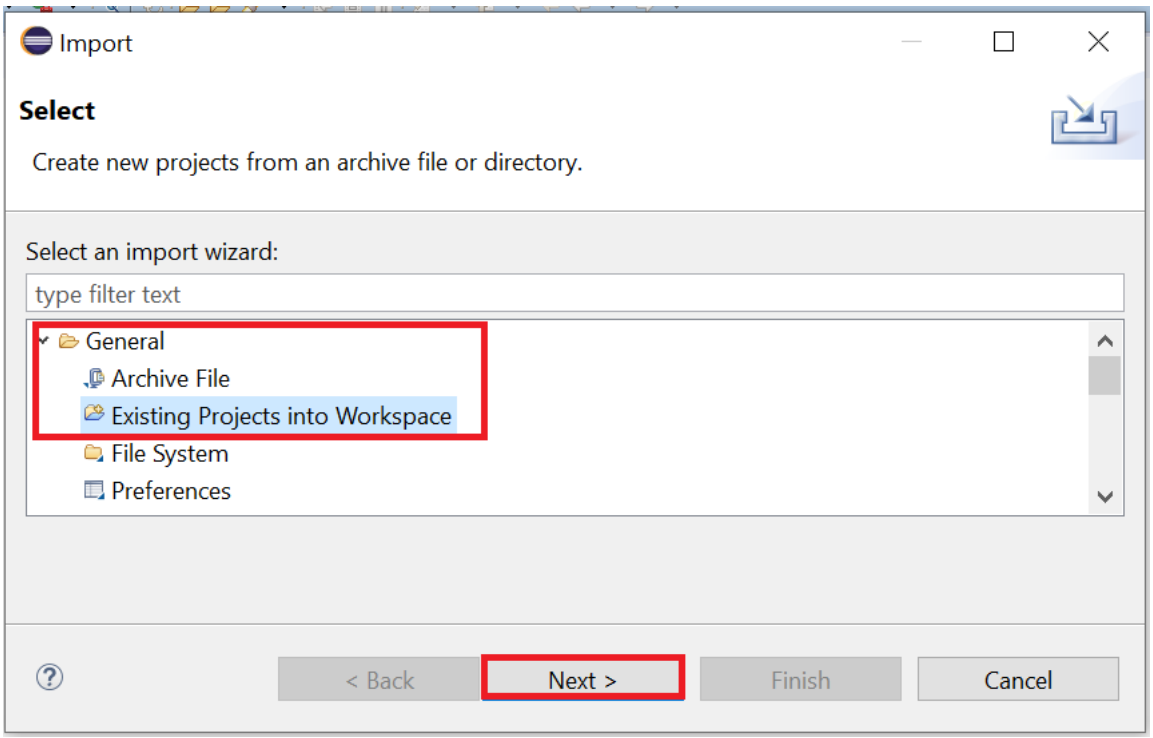
3. Select the workspace directory and click OK: Eclipse IDE will be opened.



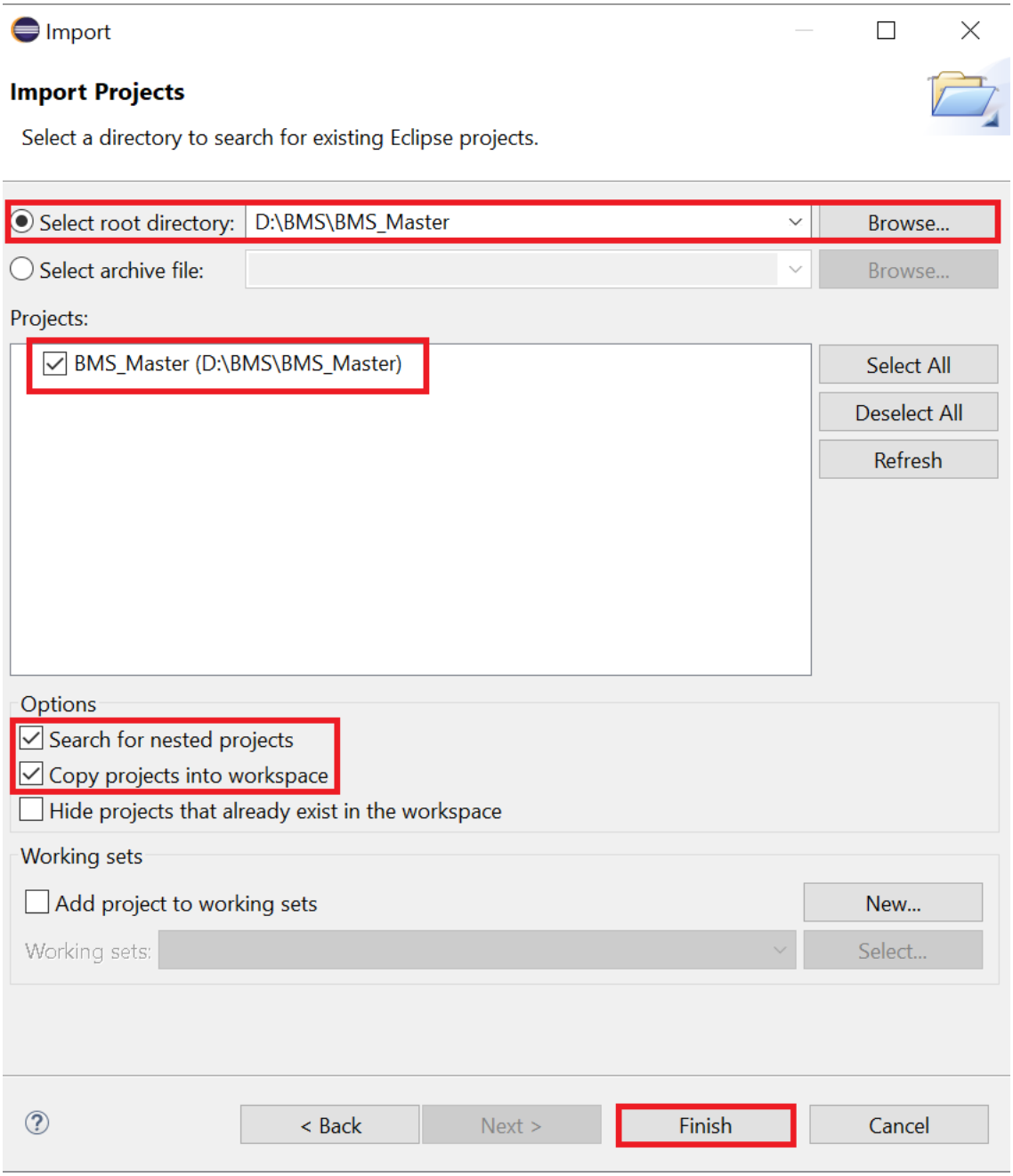
4. To import project: Select File option and Click Import.



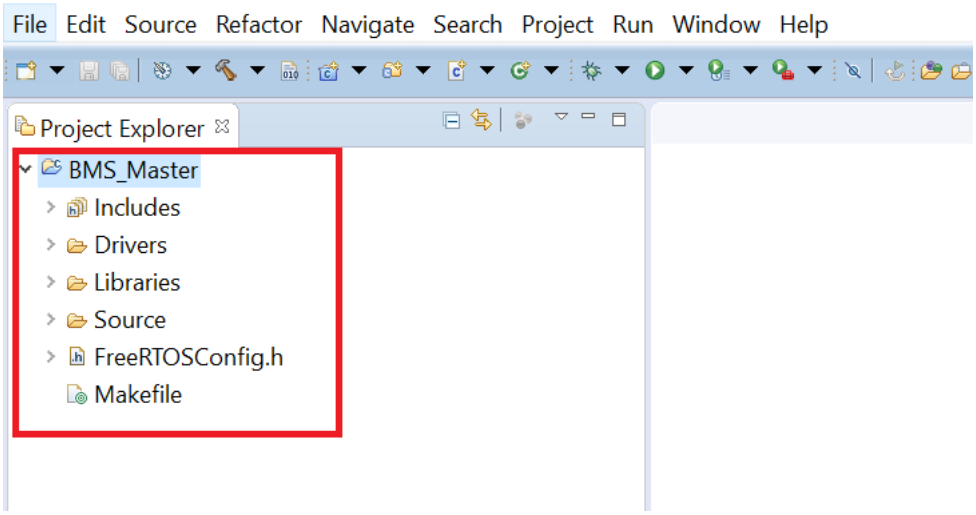
5. Under General category, select “Existing Projects into Workspace” and Click Next.



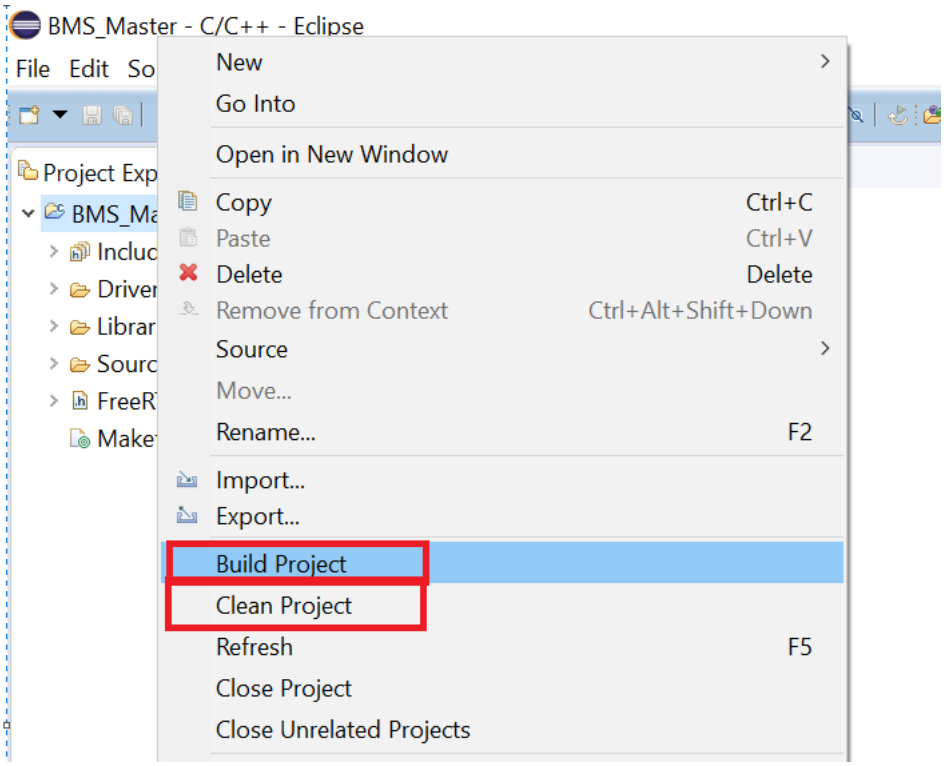
6. Browse the BMS project under “Select root directory”, select tick mark options and click Finish.



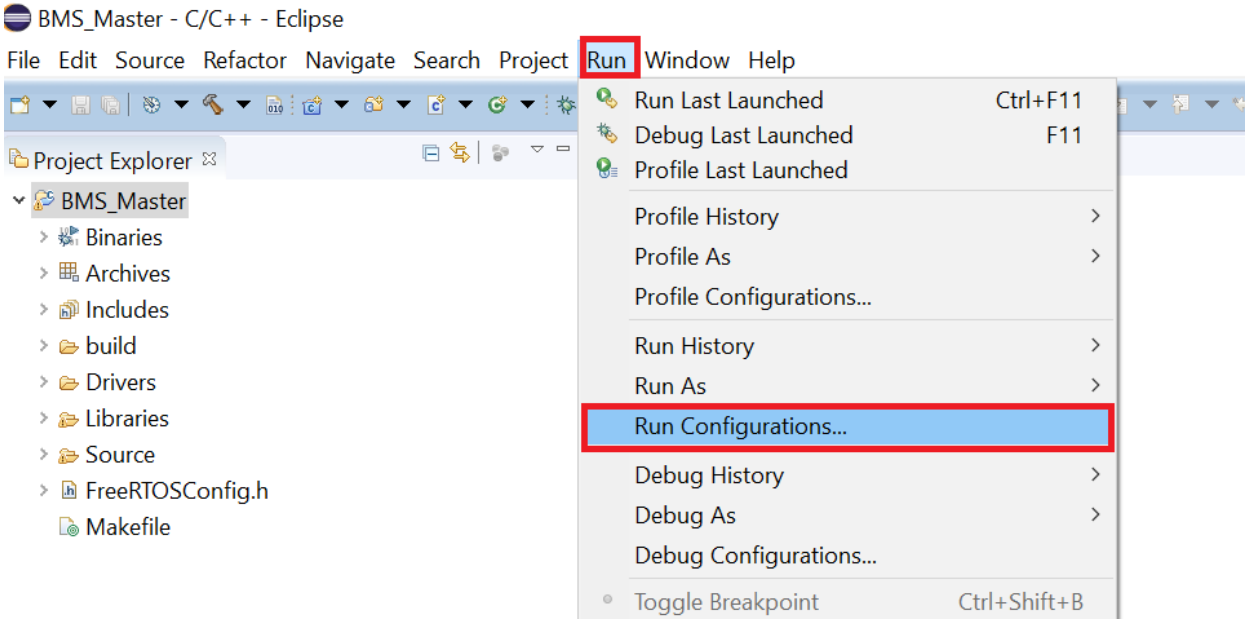
7. After Successfully importing project, you can see the project in “project explorer” menu.



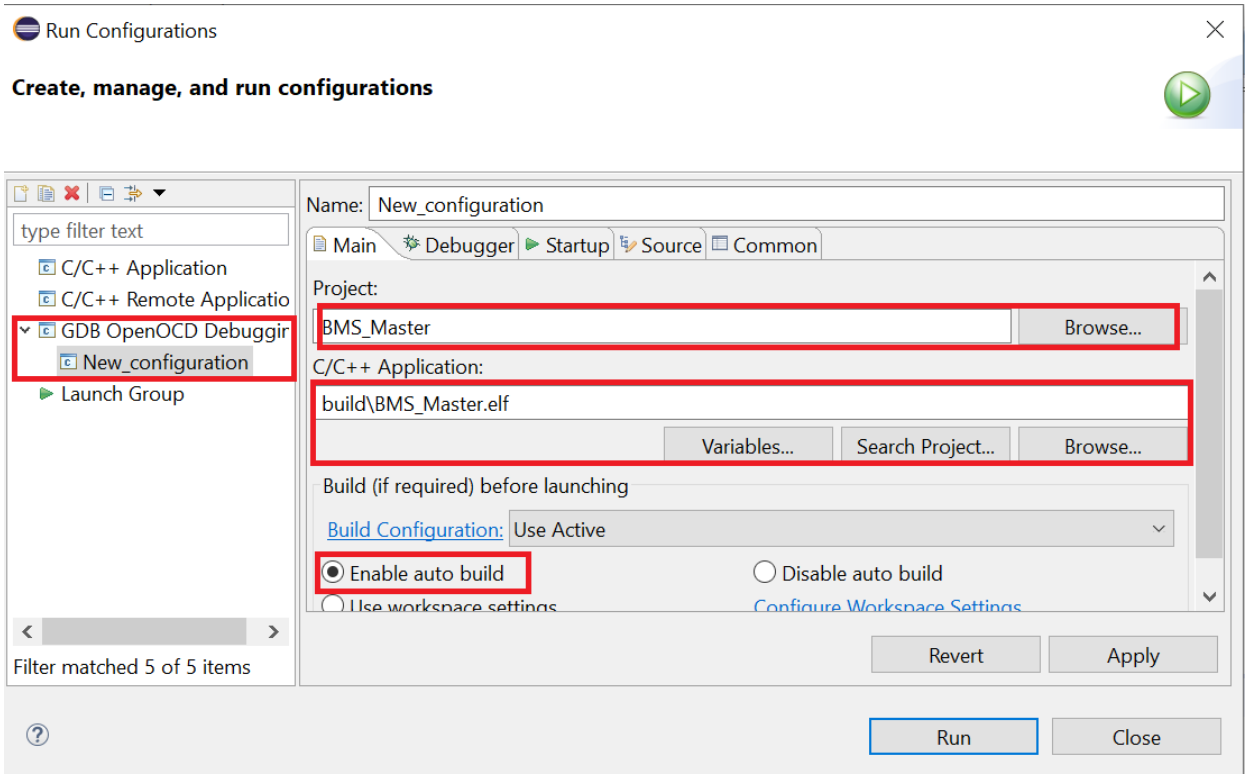
8. To build project Right click on Project and select “Build Project” option.
9. To clean project Right click on project and select “Clean Project” option.



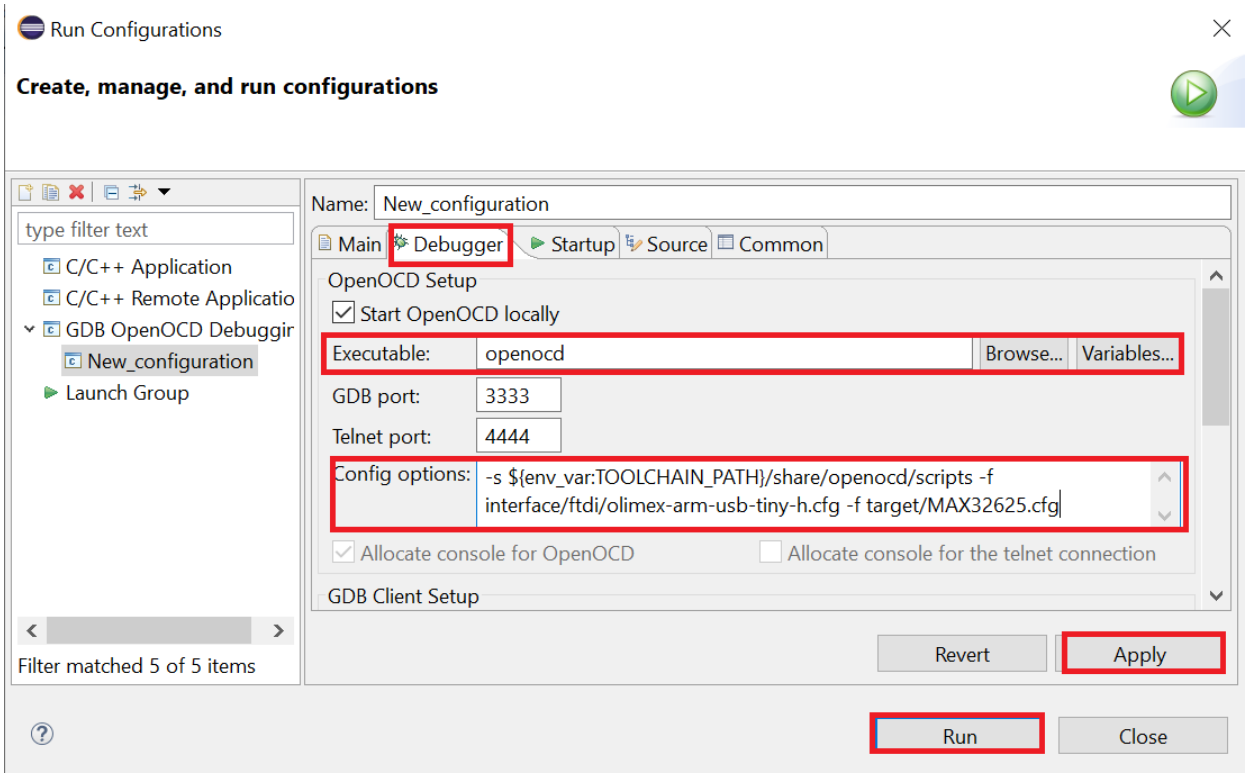
10. Run/Debug Configuration: Select Run option and Click Run Configuration.



11. Right click on “GDB OpenODC Debugging” and add new Configuration:
12. Do the following selected Settings under “Main” Menu:



13. Do the following selected settings under “Debugger” Menu:
14. After doing required settings click “Apply” and then “Run” to flash the firmware into BMS Board.



15. After above step BMS board has successfully programmed. It can be verified by manually examining “Status LED” on BMS board.
16. To stop Run configuration, click on “green marked icon”.