



# Application Note

# ARM Compiler V506 Update 6

# Build 750 Installation

*Power Application Controller® Battery Management*

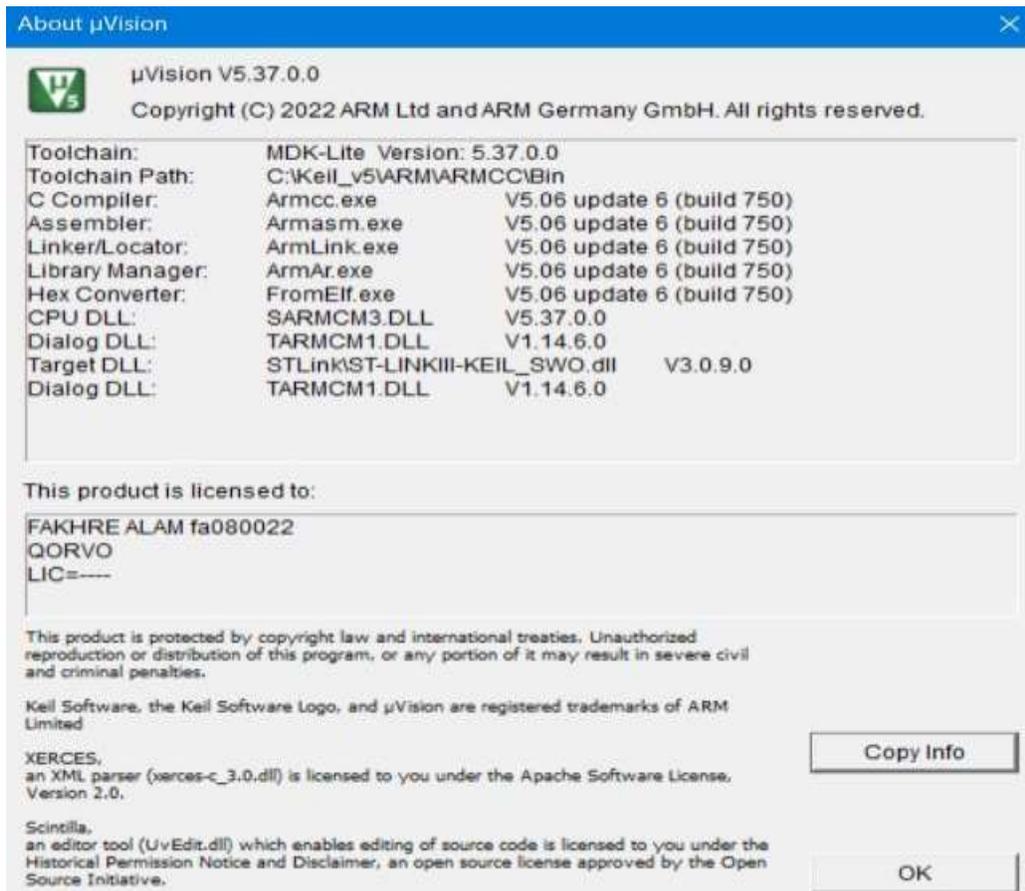


## 1 Keil IDE ARM Compiler V506 Update 6 Build 750

### 1.1 Why we need this Compiler?

Our FOC and BMS code is using ARM Compiler V506 Update 6 Build 750 with Keil IDE. Keil is not supporting this compiler by default. If user don't have ARM Compiler V506 Update 6 Build 750 installed he is good but if they don't have this version, they need to install else code will not compile under Kiel IDE.

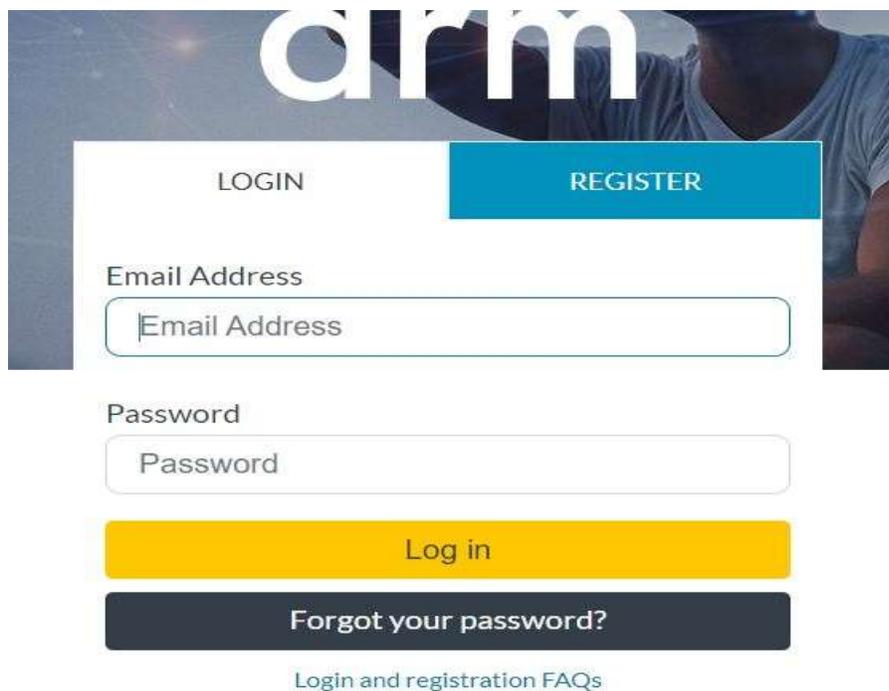
User can check by version of IDE and compiler installed by checking About uVision page as follows.



If C Compiler V5.06 update 6 (build 750) and other pieces are there then no need to install you are good to go else need to follow this procedure to install the Compiler V5.06 update 6 (build 750).

## 1.2 ARM Free Developer Account

For download old ARM compiler ARM requires user to use ARM free account, if don't have one you can create by using this link.



Here is the list of all Compiler available at ARM developer sit for free.

[Arm Compiler downloads index](#)

The screenshot shows the ARM Developer website page titled "Arm Compiler downloads index". The page includes a navigation menu, a search bar, and a list of toolchains with their support statuses.

Toolchain	Support status
Arm Compiler for Embedded (formerly Arm Compiler 6)	Active maintenance (latest release only)
Arm Compiler for Embedded FuSa 6.14LTS	Active maintenance
Arm Compiler for Functional Safety 6.6	Extended maintenance
Arm Compiler 5.06 for Functional Safety	Extended maintenance
Arm Compiler 5.04 for Functional Safety	Legacy
Arm Compiler 5	Legacy
Arm Compiler 4.3	Legacy
RealView Compilation Tools (RVCT)	Legacy

Version	Status	Build Number	Release Date
Arm Compiler 6.14	ACOMPSE	r6p14-00rel10	28 Feb 2020
Arm Compiler 6.13.1	Available only in Keil MDK5.29	MDK5.29	13 Nov 2019
Arm Compiler 6.13	ACOMPSE	r6p13-00rel10	10 Oct 2019
Arm Compiler 6.10.1	ACOMPSE	r6p10-01rel10	14 Jun 2018
Arm Compiler 6.9	ACOMPSE	r6p9-00rel10	25 Oct 2017
Arm Compiler 5.06 update 7 (build 960)	ACOMPSE	r5p6-07rel11	14 Sep 2020
Arm Compiler 5.06 update 6 (build 750)	ACOMPSE	r5p6-06rel11	28 Sep 2017
Arm Compiler 5.06 update 5 (build 528)	ACOMPSE	r5p6-05rel11	03 Feb 2017
Arm Compiler 5.06 update 4 (build 422)	ACOMPSE	r5p6-04rel11	29 Sep 2016
Arm Compiler 5.06 update 3 (build 300)	ACOMPSE	r5p6-03rel11	25 May 2016
Arm Compiler 5.05 update 1 (build 106)	ACOMPSE	r5p5-01rel11	2 Dec 2014
Arm Compiler 5.04 update 1 (build 49)	ACOMPSE	r5p4-01rel11	14 Feb 2014
Arm Compiler 5.03 (build 24)	ACOMPSE	r5p3-00rel11	31 Jun 2013
Arm Compiler 5.01 update 4 (build 113)	ACOMPSE	r5p1-04rel11	21 May 2012
Arm Compiler 5.01 update 3 (build 94)	ACOMPSE	r5p1-03rel11	23 Mar 2012
Arm Compiler 4.1 patch 6 (build 894)	ACOMPSE	r4p1-04rel10	31 Oct 2011
RVCT 4.0 patch 3 (build 561)	ACOMPSE	r4p0-03rel10	20 Jul 2009

One we are interested in downloading is.

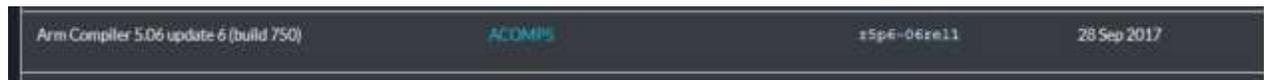
Arm Compiler 5.06 update 6 (build 750)	ACOMPSE	r5p6-06rel11	28 Sep 2017
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The number of this compiler is r5p6-06rel11.

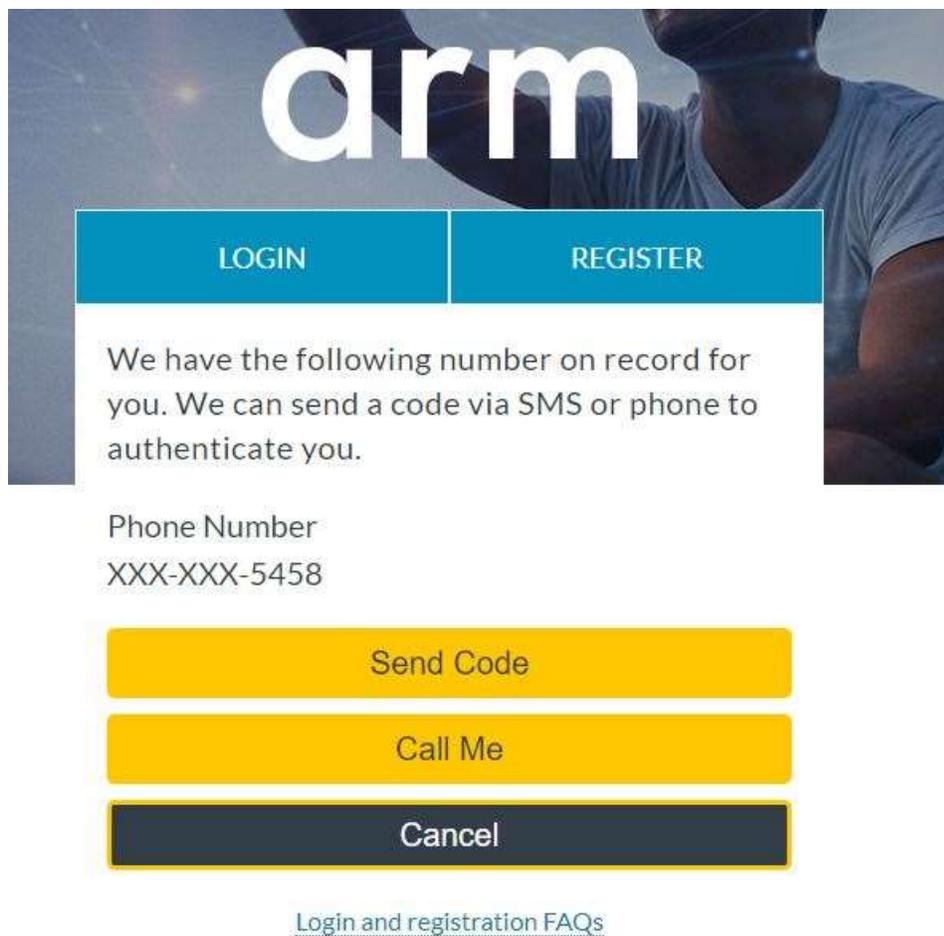
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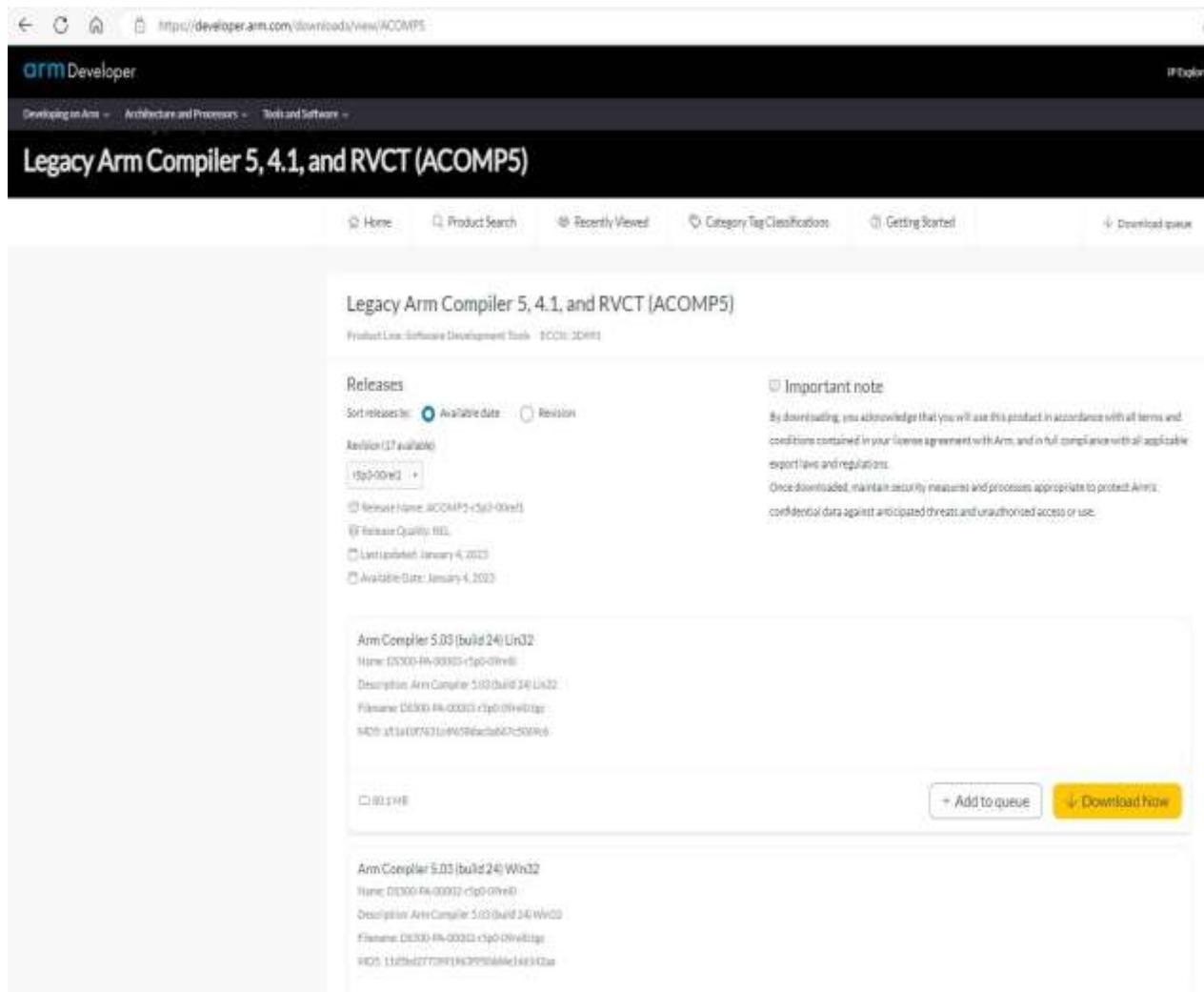
Please click on this Compiler link



Compiler link we bring user to another screen that will user to verify his account by text message or phone call.



Please press Call Me, you will get an automatic call, after pressing # at phone keypad, ARM will take you to Compiler download page.



Arm Compiler 5.06 update 6 (build 750) Win32  
Name: D5500-PA-00002-r5p0-25re0  
Description: Arm Compiler 5.06 update 6 (build 750) Win32  
Filename: D5500-PA-00002-r5p0-25re0.tgz  
MD5: 3780939e8352c0d1e96fc5a1df3a4836

80.9 MB

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- Set up Aspera Downloads

Make sure to select this version Arm Compiler 5.06 update 6 (build 750) win32, press Download Now





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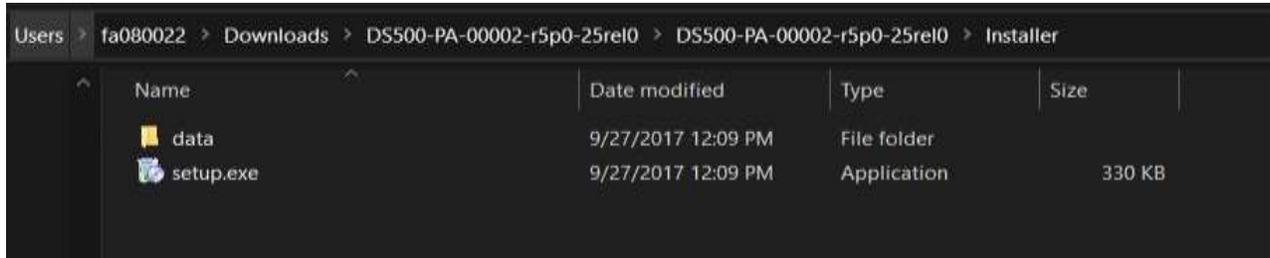
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When download will complete, unzip the file.

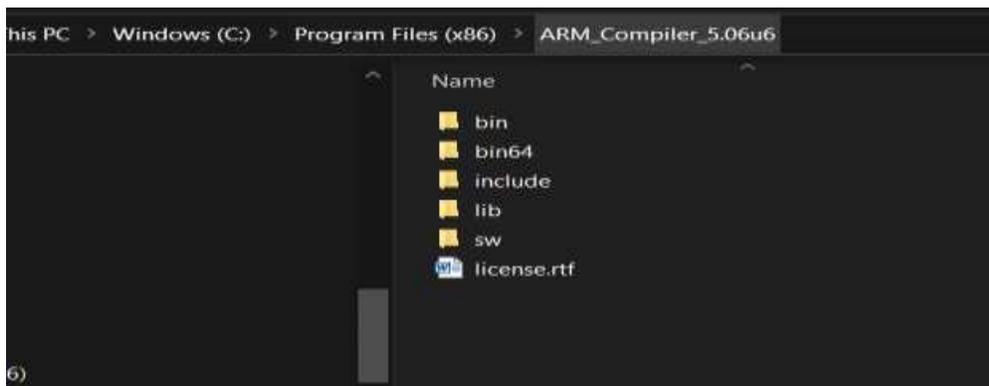
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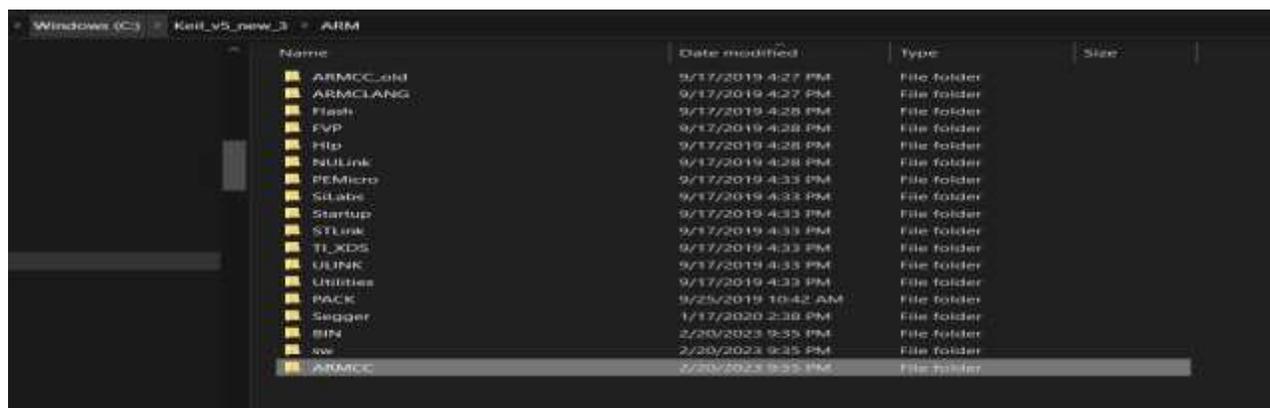
After unzip run setup.exe, user need to run this administrator.



Install the files in the default directory, that will be.



Copy all these files, go to the folder where u have Kiel IDE Installed.



Create folder name called ARMCC, copy all of ARM Compiler in this folder.

### 1.3 How to add Arm Compiler V506 Update 6 Build 750 to Keil IDE

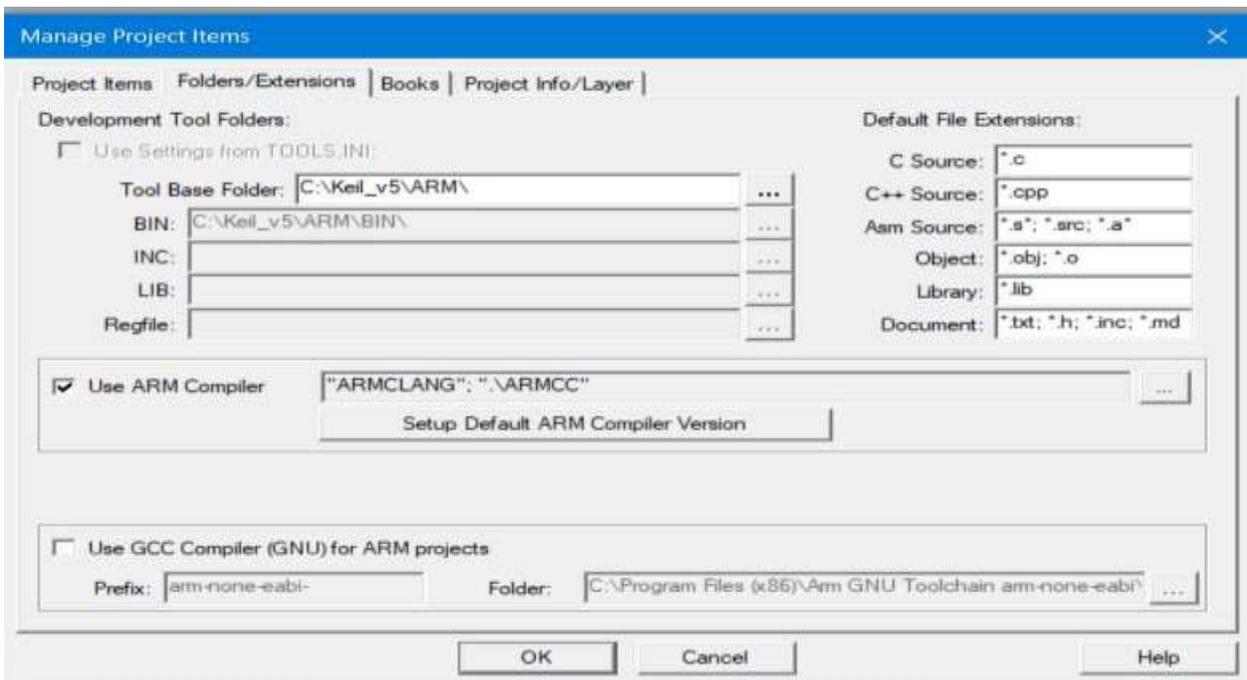
This procedure is only required if user don't have Arm

Compiler V506 installed.

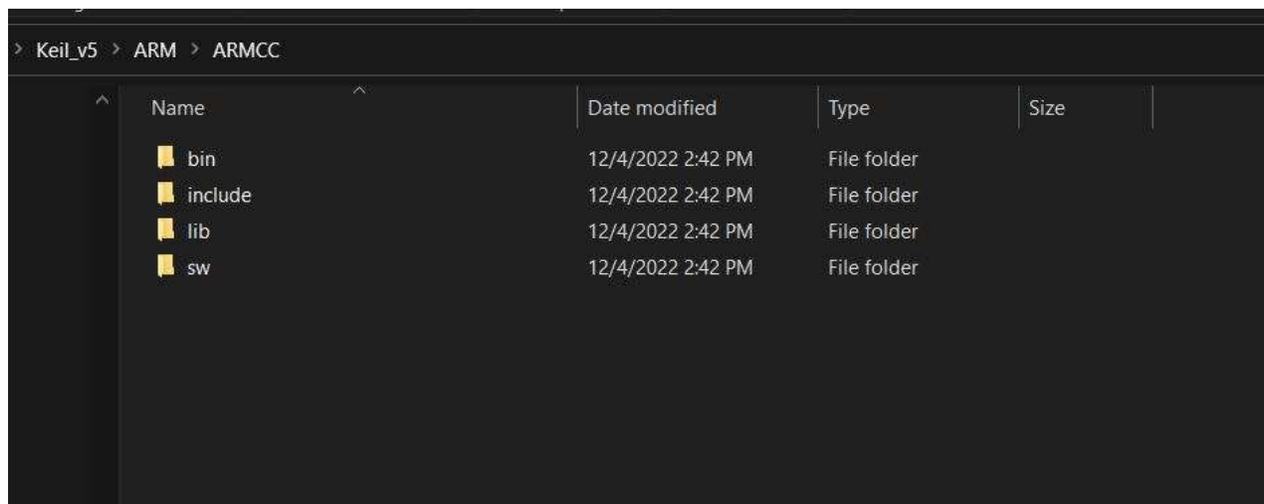
Click Project -> Manage -> Project items



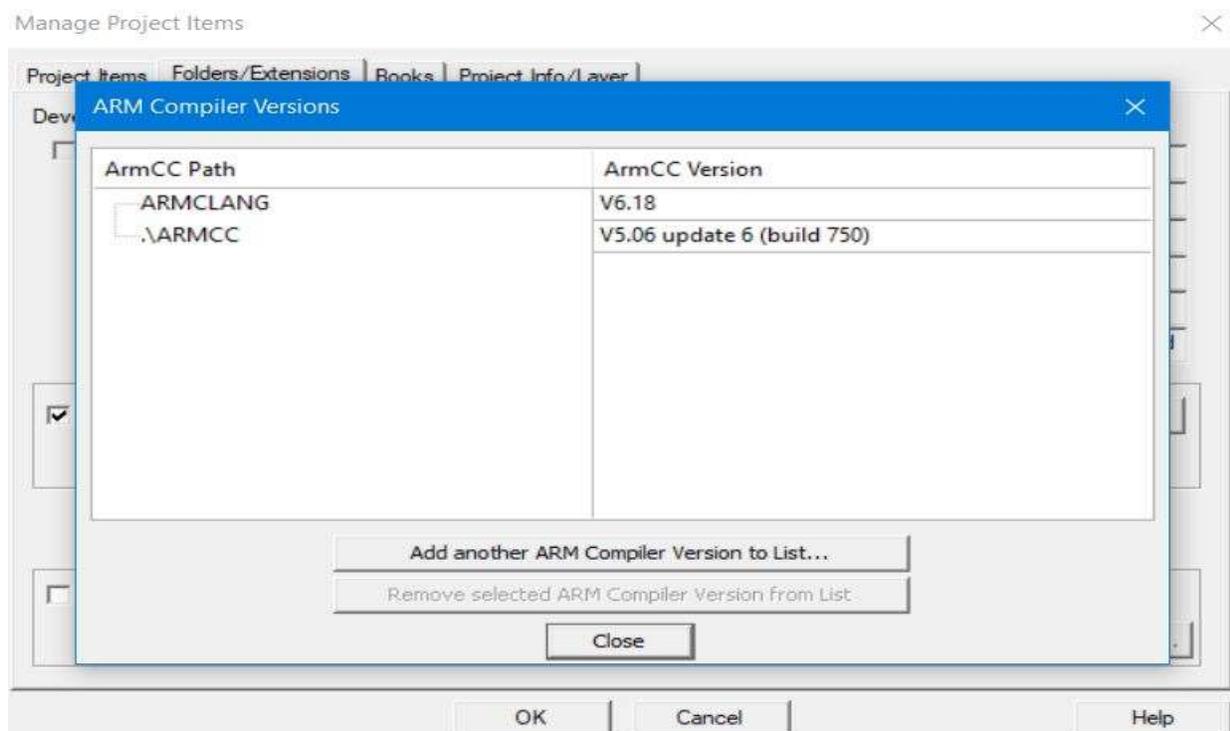
User Use ARM Compiler, Click on browse.



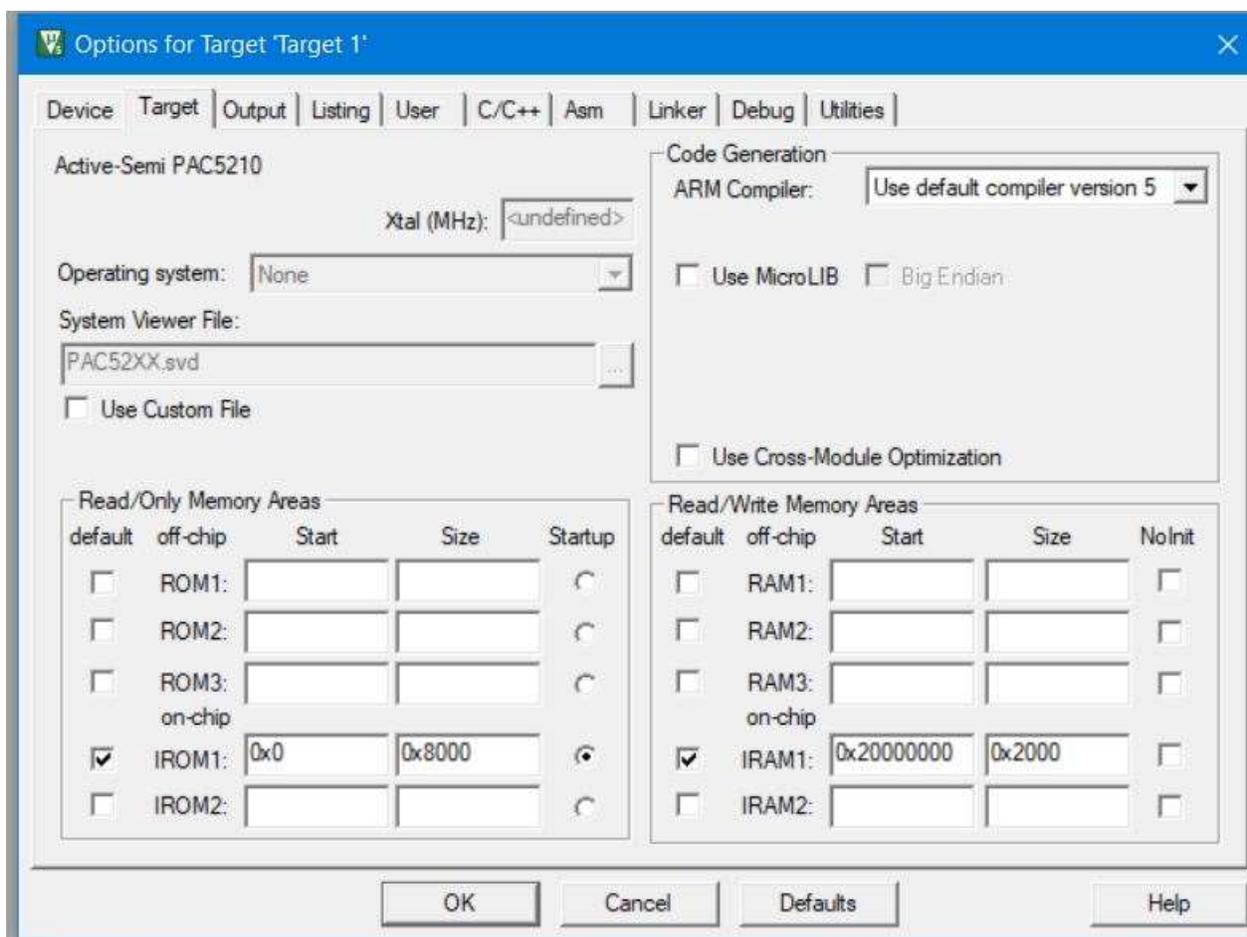
Browse to ARM directory where we copied file earlier.



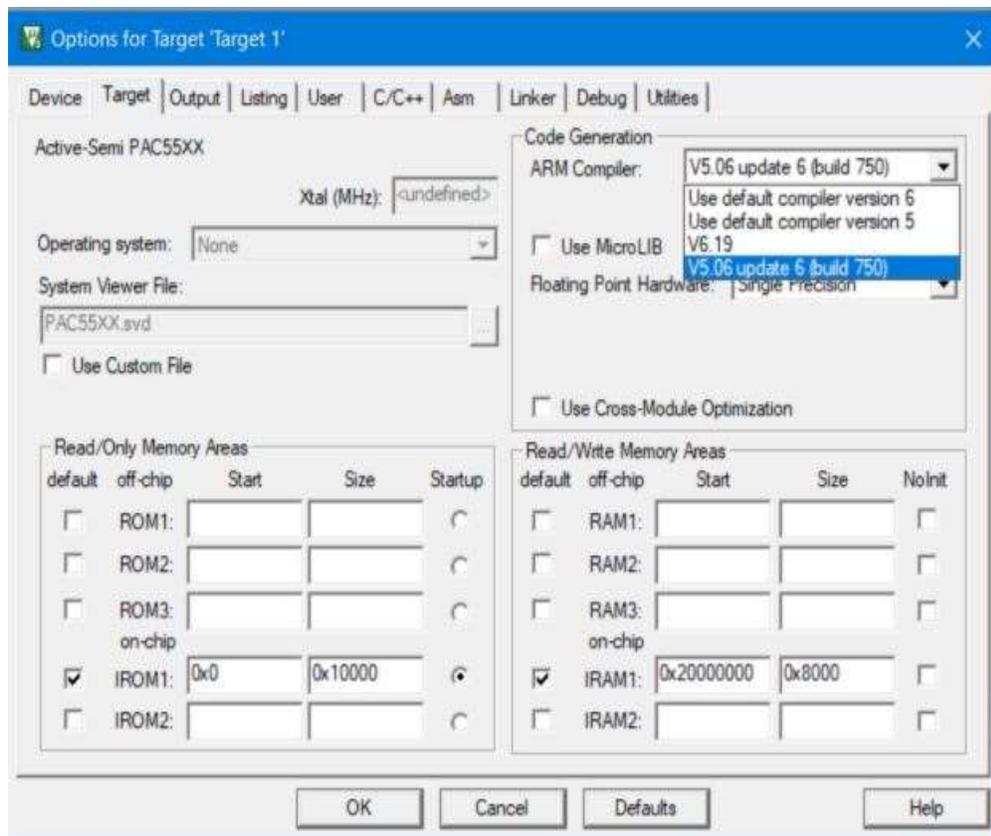
Click on Add another ARM Compiler Version from list, select V5.06 update 6 (build 750) and click close.



After installing compiler to Project -> Manage we need to select this compiler under target properties. Click on target and open Options for Target.



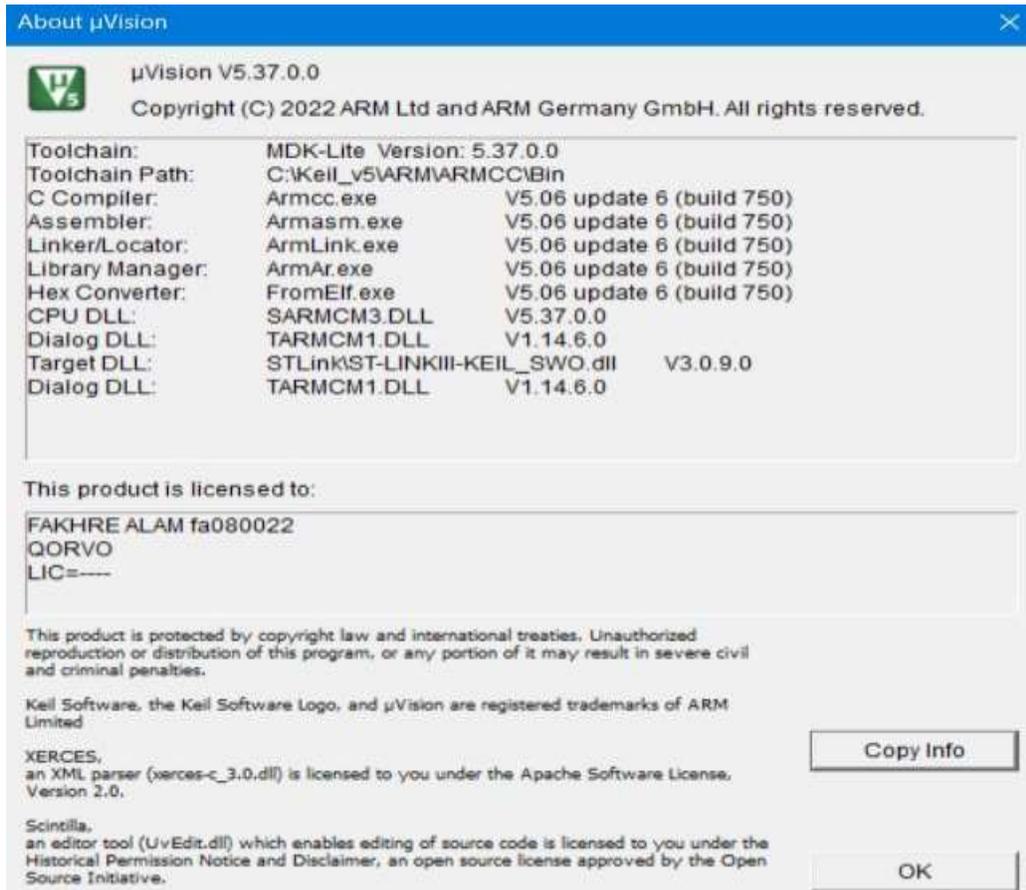
Please select V5.06 update 6 build 750 from left hand side Code Generation -> ARM Compiler menu.



Click Ok.

User is good to go with Arm Compiler V5.06 update 6 (build 750) setup.

User can check by version of IDE and compiler installed by checking About uVision page as follows.





## 1.4 LEGAL INFORMATION

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