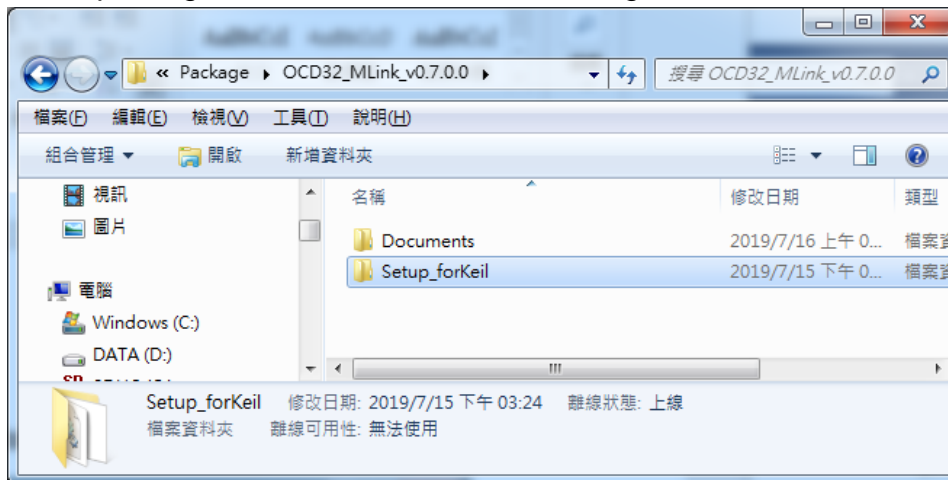


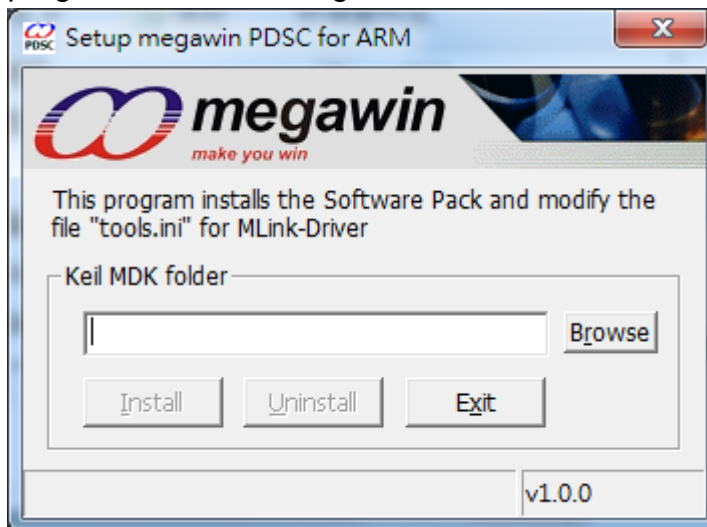
Install and Setup MLink for Keil MDK v1.0

1. In the package, there are some folders as figure 1.



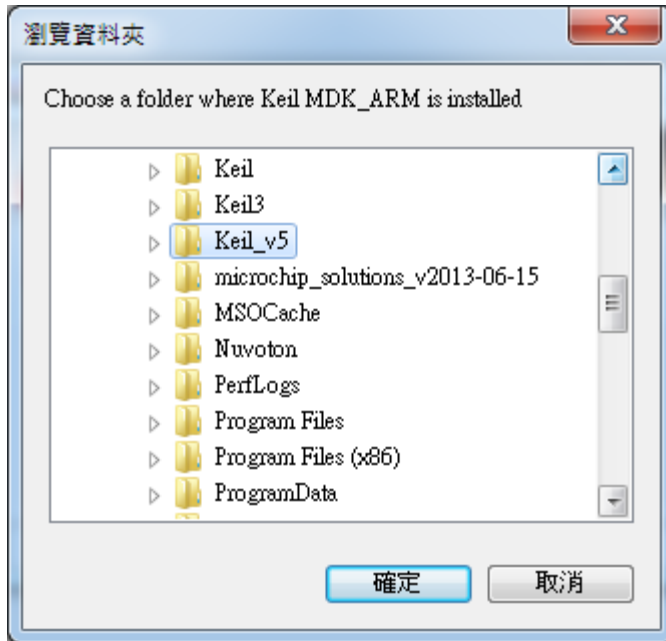
(Figure 1)

2. Please execute the “**SetupOCD_forKeil_wlCP32.exe**” in “**Setup_forKeil**”, the program will show as figure 2.

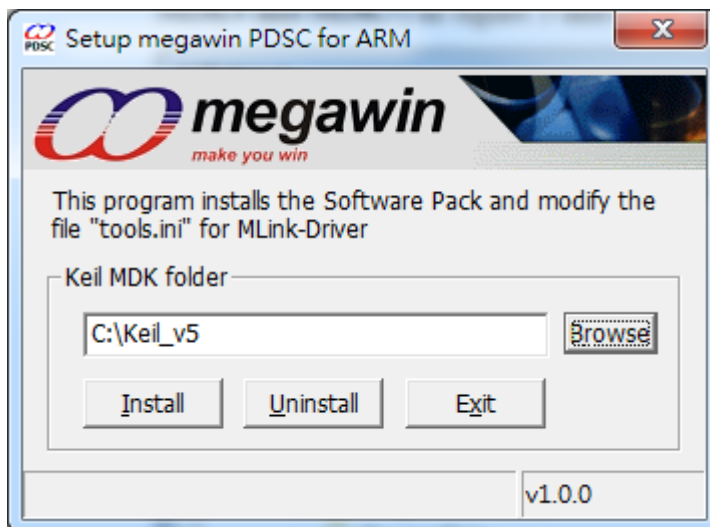


(Figure 2)

3. Click the “**Browse**” button to select the root directory of Keil MDK(only available for MDK4 and MDK5) as figure 3 and click “**OK**”, then it will be as figure 4.

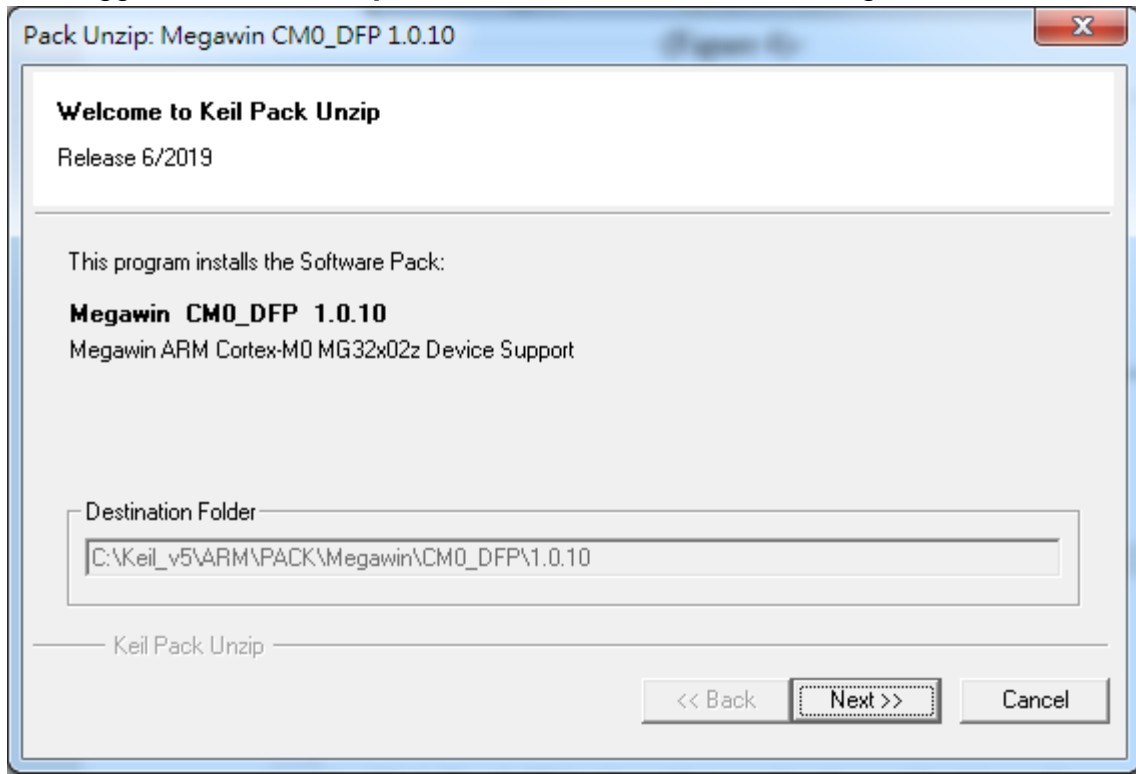


(Figure 3)



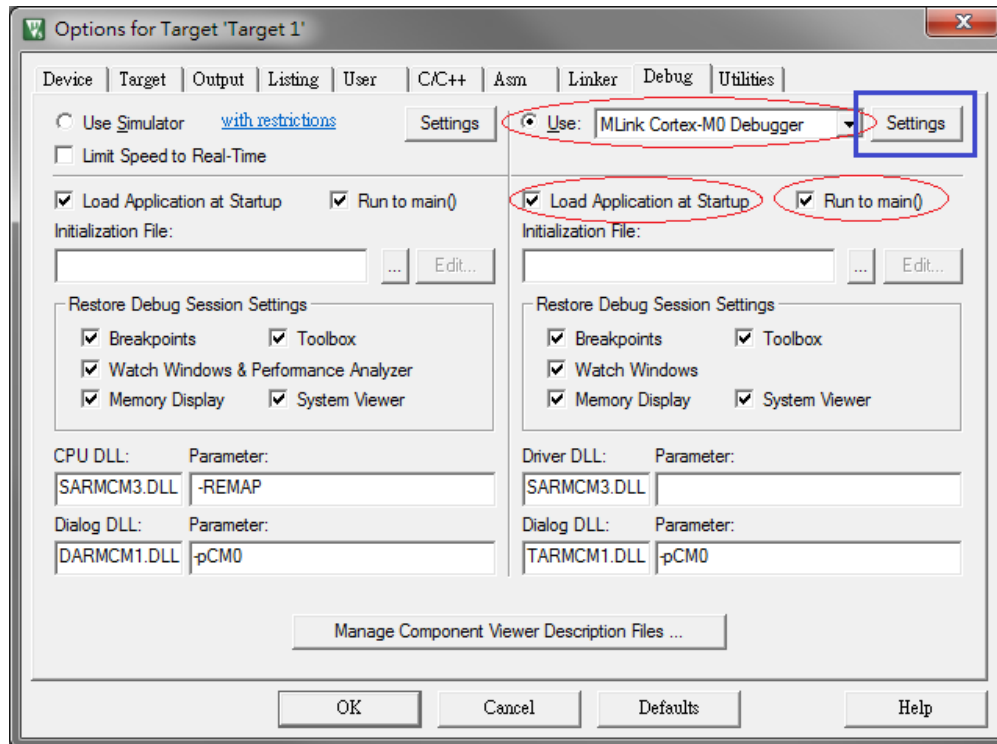
(Figure 4)

4. Click **"Install"** button, the application will add configuration in the file of **"tools.ini"** and trigger the **"Packunzip.exe"** to install the PDSC file as figure 5.



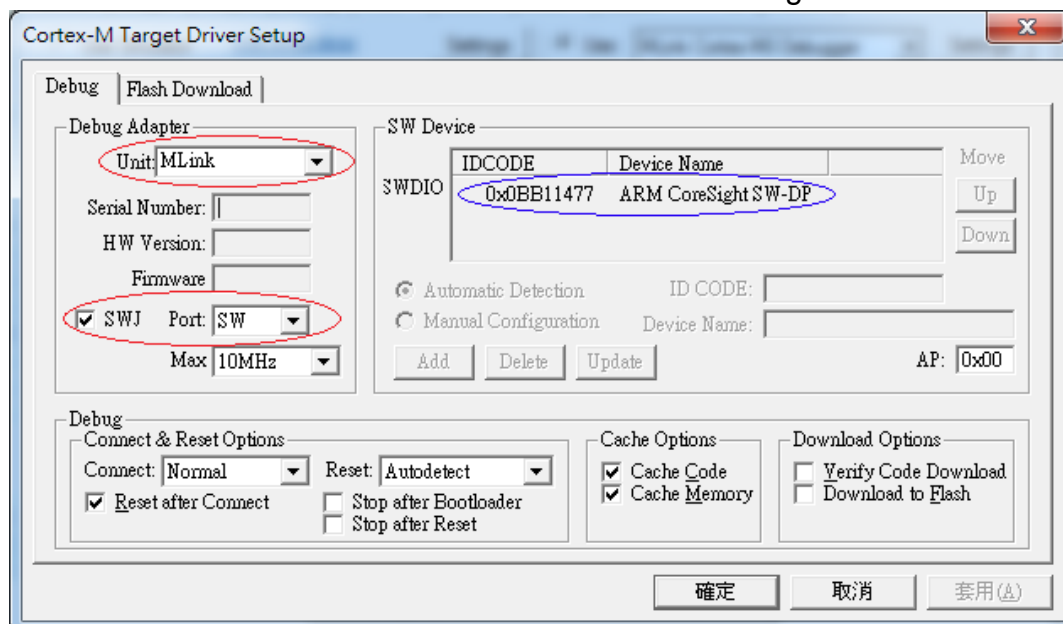
(Figure 5)

5. Click **"Next"** button, when it is completed, click **"Finish"** to close the dialog.
6. Click **"Exit"** to finish the install procedure.
7. Execute **"UV4.exe"** and open the sample project **"MG32x03z"**.
8. Click the menu of **"Project"** and select **"Options for Target 'Target 1'..."**.
9. Select the **"Debug"** tab as figure 6.
 - (1) Select **"MLink cortex-M0 Debugger"**.
 - (2) Check **"Load Application at Startup"**.
 - (3) Check **"Run to main()"**.



(Figure 6)

10. Reference to figure 5, click the “**Setting**” button, another dialog will show as figure 7. Configure the debug adapter as figure 7. If the hardware are working, there will be a SW Device shows in list control on the right side of the dialog.



(Figure 7)

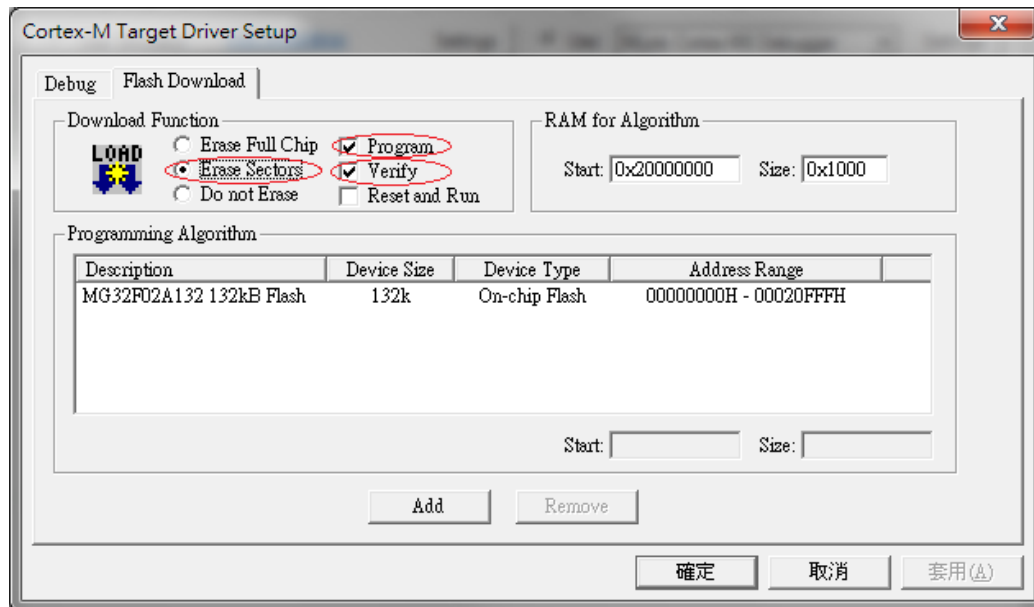
11. Click the tag of “Flash Download” as figure 8.

(1) Click “Erase Sectors”

(2) Check “Program”

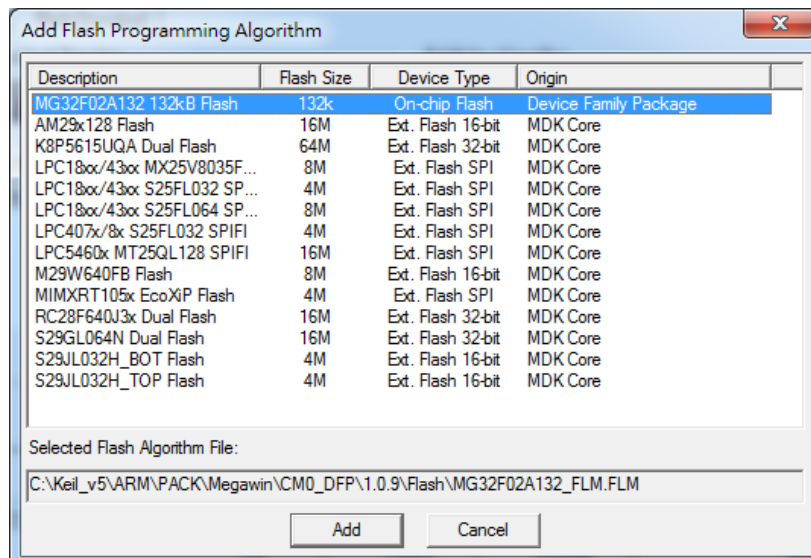
(3) Check “Verify”

Click “OK” button.



(Figure 8)

If programming algorithm is not showed as figure 8, please click “Add” to select the flash programming algorithm as figure 9.



(Figure 9)

12. Rebuild the sample project “**MG32x02z**”.
13. Click the menu of “**Flash**” and select “**Download**”
14. Start to debug the project.

Note 1 : Before using MLink for the first time. Please execute “**ICP32_Programmer.exe**” to update the firmware of MLink.

Note 2 : When the chip is locked, we can't run in debug mode with MLink in Keil IDE.
Please execute “**ICP32_Programmer.exe**” and click “**Update Target**” to unlock the chip.