Installing Keil MDK for STMicroelectronics Edition

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Abstract

Keil MDK for STM32F0/G0/L0 and BlueNRG-1/2/LP/LPS provides software developers working with STM32 and BlueNRG family devices with a **free-to-use** tool suite. This edition includes the Arm C/C++ Compiler, the Keil RTX5 real-time operating system kernel, and the μVision IDE/Debugger. It only works with STMicroelectronics devices based on the Cortex-M0/M0+ cores. MDK uses <u>STM32 CubeMX</u> to configure peripherals and other device settings.

This application note explains how to download, install, and use MDK with STMicroelectronics devices based on the Cortex-M0/M0+ cores.

Contents

| Abstract | 1 |
|-----------------------------|---|
| Product Serial Number (PSN) | 1 |
| Installation | 2 |
| Activation | 3 |
| Example projects | 4 |
| | |

Product Serial Number (PSN)

To activate the Keil MDK for STM32F0/G0/L0 and BlueNRG-1/2/LP/LPS edition, use the following Product Serial Number (PSN):

4RMW3-A8FIW-TUBLG

For more details on how to activate MDK, please refer to the Activation guide below.

🗹 Note

• With this PSN you can cut a one-year term license.

Installation

- 1. Download Keil MDK.
- 2. Run the downloaded MDK5xx.exe installer.
- 3. Select your installation location (default is C: \Keil_v5). If you have existing MDK installations that you want to keep, select a new folder. Once the installation has finished, Pack Installer opens.
- 4. In Pack Installer, click **Install** to download and install the device family packs for STMicroelectronics devices.



5. MDK is now ready to be used. Proceed to the next section to activate the product.

Activation

- On your PC, login with an account that has administration rights.
- Right-click the μ Vision icon W and select **Run as Administrator...** from the context menu.
- Open the dialog File License Management... and select the Single-User License tab.

| License Management | | × |
|---|--|---|
| Single-User License Floating License Flo | oating License Administrator FlexLM Lice | nse |
| Customer Information Name: Company: Email: | | Computer ID CID: Get LIC via Internet |
| Product | License ID Code (LIC)/Product variant | Support Period |
| 2 | | 3 |
| New License ID Code (LIC): | | Add LIC Uninstall |
| | | |
| | Close | Help |

- 1. Click the button **Get LIC via Internet...**, then click the button **OK** to register the product. This action opens the License Management page on the Keil web site. Enter the PSN shown above and add your contact information. Click the button **Submit**. An e-mail is sent back with the **License ID Code (LIC)** within a few minutes.
- 2. To activate the product, enter the LIC in the field New License ID Code (LIC) of the dialog License Management...
- 3. Click Add LIC.

Example projects

- 1. Open the Pack Installer from the μ Vision toolbar.
- 2. Switch to the **Examples** tab. From the list, select the example you want to install. The **Boards** or **Devices** tab allows to filter for specific boards or devices.

| 🅸 Pack Installer | _ | | × |
|---|------------|------------|------|
| File Packs Window Help | | | |
| NUCLEO-F103RB (Rev.C) | | | |
| Devices Boards D A Packs Examples | | | Þ |
| Search: NUCLEO-F103 • X 🖾 Show examples from installed Packs o | nly | | |
| Board 🛆 Summary Example | Act | ion | De |
| E All Boards 30 Devices Blinky (NUCLEO-F103RB) | - | Сору | Blin |
| NUCLEO-F103RB (Rev.C) STM32F103RB CMSIS-RTOS Blinky (NUCLEO-F103RB) | | Сору | CM |
| rt-thread blinky-hal (NUCLEO-F103RB) | <u>حجه</u> | Сору | rt-t |
| rt-thread blinky-II (NUCLEO-F103RB) | <u>حجه</u> | Сору | rt-t |
| rt-thread msh-hal (NUCLEO-F103RB) | <u></u> | Сору | rt-t |
| | | | |
| | | | ► |
| Output | | | ąх |
| | | | |
| Ready | | ONLIN | E / |
| When pressing Copy , a dialog box will ask for the desired destination. The example installed into this folder. Folders that do not exist will be created automatically. | will b | e directly | |
| Copy Example X | (| | |

| Copy Example | × |
|-----------------------------|------------------|
| Destination Folder | |
| C:\Projects | ▼ Browse |
| ☑ Use Pack Folder Structure | ✓ Launch µVision |
| | OK Cancel |

4. Tick Launch μ Vision to open the project after installation.