

连接微控制器

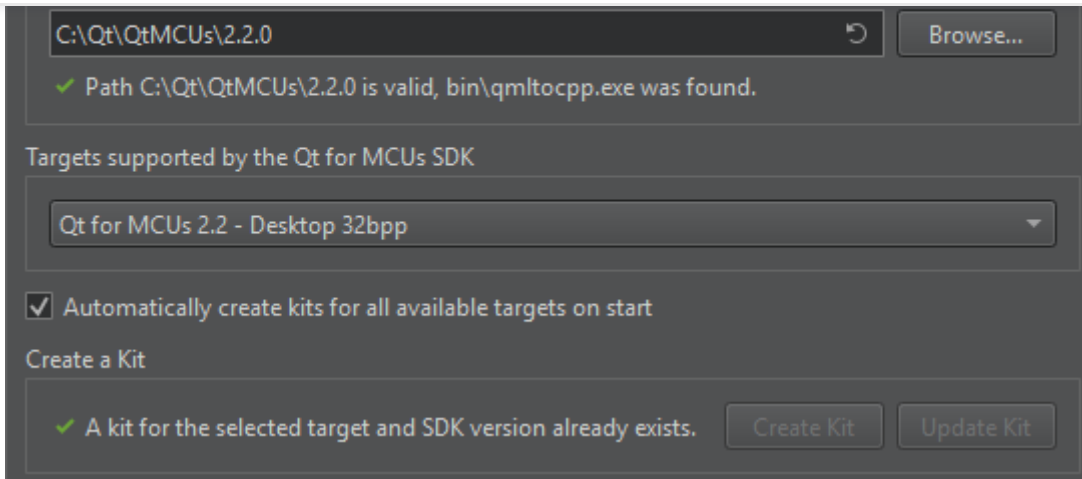
要求

设置开发环境

单片机插件

指定单片机设置

D **A** **MCH** **WLA** **L** **ONY** **B** **MAL** **GSH**



1. 在“适用于 MCU 的 Qt SDK”字段中，指定安装 MCU 的 Qt SDK 的目录的路径。
2. 在“适用于 MCU 的 Qt 支持的目标”字段中，选择您的 MCU 板。
3. 在“要求”部分中，确保满足特定于平台的要求。这取决于所选的目标：
 - › 对于STM32目标：
 - › 通用工业大学嵌入式工具链或 IAR 武器编译器路径。
 - › STM32立方体编程器安装路径。
 - › 所选目标的微控制器开发工具包。
 - › 所选目标的自由交易系统源。
 - › 对于恩智浦目标：
 - › 通用工业大学嵌入式工具链或 IAR 武器编译器路径。
 - › 计算机驱动程序 IDE 安装路径。
 - › 所选目标的微控制器开发工具包。
 - › 所选目标的自由交易系统源。
 - › 对于瑞萨电子目标：
 - › The Green Hills Compiler path.
 - › The Renesas Graphics Library path.
4. Select the **Automatically create kits for all available targets on start** option to create kits automatically the next time Qt Creator is started.

Note: You could also use **Create Kit** to manually create kits for the chosen target.

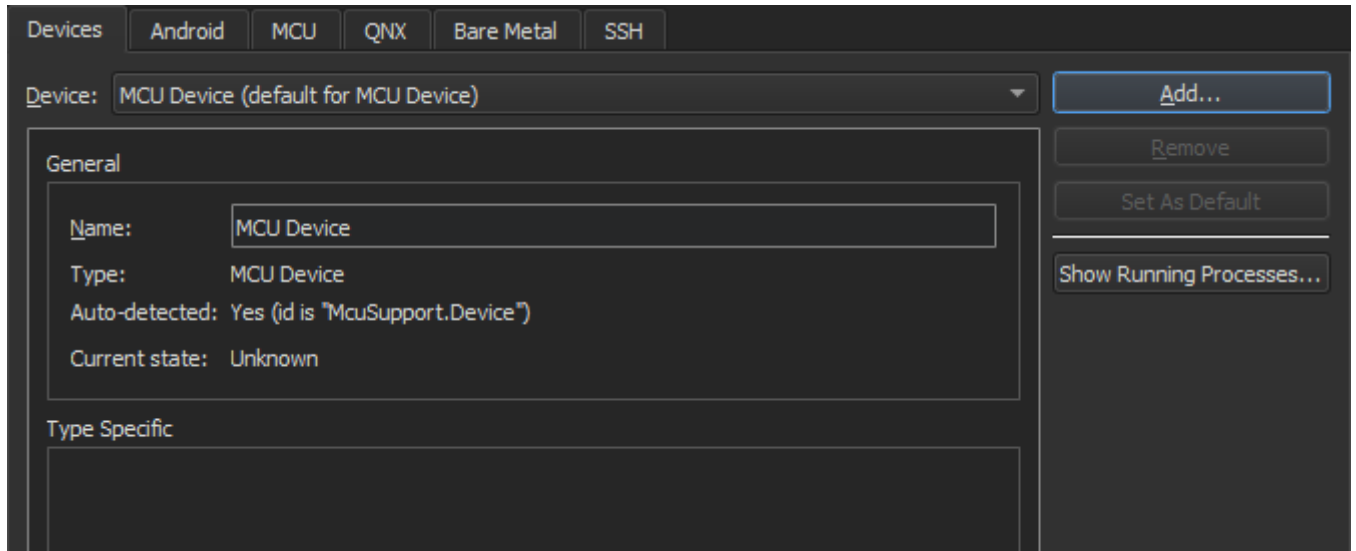
5. Select **Apply** to save the settings.

Note: When updating to other versions of the Qt for MCUs SDK, Qt Creator will ask you if you want to replace the existing kits, or create new ones alongside. This can also be done manually, for each individual target, via **Update Kit** and **Create Kit**, respectively.

Adding MCU Devices

MCU Settings.

Qt Creator automatically adds a default MCU device when you select **Apply** in the **MCU** tab after configuring the MCU tool chain.

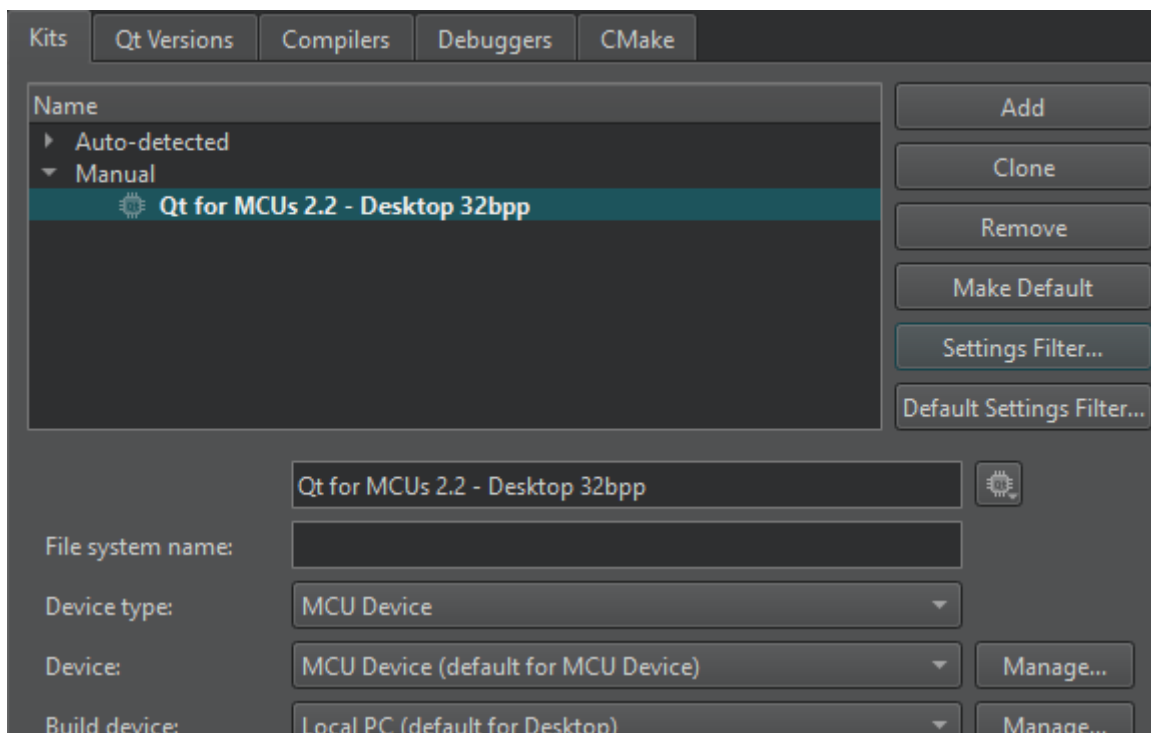


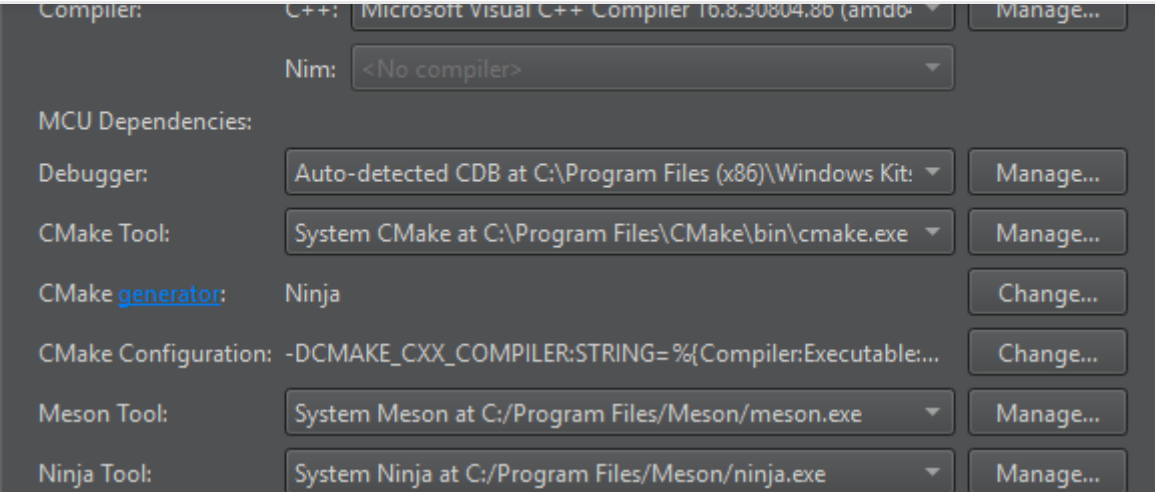
To add MCU devices, select **Edit > Preferences > Devices > Add > MCU Device > Start Wizard**:

1. In the **Name** field, give the device a name.
2. In the **Type** field, select the board type.
3. Select **Apply** to add the device.

Managing MCU Kits

Qt Creator automatically adds kits for all the available targets, if the **Automatically create kits for all available targets on start** option is enabled under the **MCU** settings tab. You can also create kits for individual targets manually, as outlined in [Specifying MCU Settings](#).





You can edit and/or remove individual kits in **Edit > Preferences > Kits**.

However, for adding new kits you should use the **Create Kit** button in the {Qt for MCUs} settings tab. This method adds the paths to the kit's toolkits and SDKs, and keeps them synchronized when selecting **Apply** or **OK**.

The **MCU dependencies** field displays paths to 3rd party software required for MCU development with the current kit.

Running Applications on MCUs

You can use a wizard to set up a project for developing an application that you can run on MCUs. The project uses a subset of QML and Qt Quick Controls that are supported by Qt for MCU. For more information about developing applications for MCUs, see the Qt for MCU documentation.

To create an application and run it on a MCU board:

1. Select **File > New Project > Application (Qt for MCU) > MCU Support Application > Choose**.
2. Follow the instructions of the wizard to create the project.
3. Select **Projects > Build & Run**, and then select the kit for building the application and running it on the MCU board specified in the kit.
4. Select **Run** to specify run settings. Usually, you can use the default settings.

Supported Qt for MCUs SDKs

Since version 7.0.0, Qt Creator supports version 2.0 and later of the Qt for MCUs SDK. For older versions, refer to the following table.

Qt Creator version	Qt for MCUs SDK version
7.0.0 or later	2.0 or later
6.0.x	1.3 or later, including 2.0 or later
4.12.4 up to 5.0.3	1.3 up to 1.9
4.12.2 or 4.12.3	1.2
4.12.0 or 4.12.1	1.1
4.11.x	1.0



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