KEXTIUG_ZH

MCUXpresso 配置工具安装指南

Rev. 17.0 — 17 September 2026 **User guide**

Document information

Information	Content
Keywords	MCUXpresso 配置工具
Abstract	MCUXpresso 配置工具集是一套评估和配置工具，能够在从首次评估至软件开发的各阶段为用 户提供帮助。

1 简介

MCUXpresso Config Tools 是一套评估和配置工具，帮助用户从首次评估到生产软件开发的全过程。本文档描述了如何安装 MCUXpresso Config Tools 软件。该软件提供在线版本（使用网页浏览器）和桌面应用程序版本（安装在主机上）。MCUXpresso Config Tools 用于板级配置和代码生成，包括引脚路由与电气和功能属性设置、时钟输入/输出设置与图形化视图，以及外设初始化与参数验证和快速启动选择。

MCUXpresso Config Tools 面向一般用户，旨在帮助硬件设计师、软件工程师、嵌入式工程师和现场应用工程师（FAEs）。

MCUXpresso Config Tools 支持：

- 图形化视图来创建和更改引脚、时钟和外设配置
- 创建用于设备初始化的 C 源代码，可在任何 IDE 中使用
- 显示所有引脚和可路由外设的封装视图
- 已路由引脚的视图
- 带有初始化值的寄存器
- 带有高亮时钟路径的时钟图视图
- 使用从引脚、时钟和外设生成的 C 源代码更新现有 IDE 项目

注意： 如果 MacOS 设置为繁体中文，MCUXpresso 将以英文启动而非中文。这是预期行为。

2 最低系统要求

以下列出了安装和运行软件的最低系统要求：

- 以下图形化操作系统之一：
  - Microsoft Windows 11（64位）
  - Ubuntu 24.04 LTS
    注意： Linux 版本的工具在 Linux 上以 64 位二进制文件分发，可能无法在 32 位系统上运行。
    - 支持的桌面环境：GNOME
  - Mac OS X 操作系统（macOS Monterey 12 或更高版本）
- 8 GB RAM
- 分辨率 1366 x 768 的显示器
- 互联网连接，用于从处理器数据库动态下载

3 支持的处理器

该工具包含有限的数据和支持的设备。您可以稍后下载其他支持的设备。需要互联网连接来获取支持的处理器数据。

4 限制

请参考 *MCUXpresso Configuration Tools Release Notes* 文档 MCUXCTRN了解限制。

5 安装

桌面安装可执行文件的安装程序可在 https://mcuxpresso.nxp.com 获取。

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安装程序文件大小约为 290 MB，包含安装所需的所有文件，安装过程中不需要连接互联网。您可以在网络连接较慢或在多台机器上安装软件时使用此方法。

当将配置加载到工具中时，缺失的设备信息文件将从互联网下载。

5.1 在 Windows 上安装

Microsoft Windows 提供安装二进制文件：

- 64位版本：安装程序可执行文件名中包含"x64"。

在给定主机系统上运行不匹配的可执行文件，例如在 32 位系统上运行 64 位安装程序，将显示错误消息对话框。

要在本地主机上安装 MCUXpresso Config Tools 桌面应用程序：

1. 运行 `MCUXpresso_Config_Tools_<version>_<architecture>.exe`.
   MCUXpresso Config Tools Setup 向导启动。
2. 选择您要运行安装程序的语言。

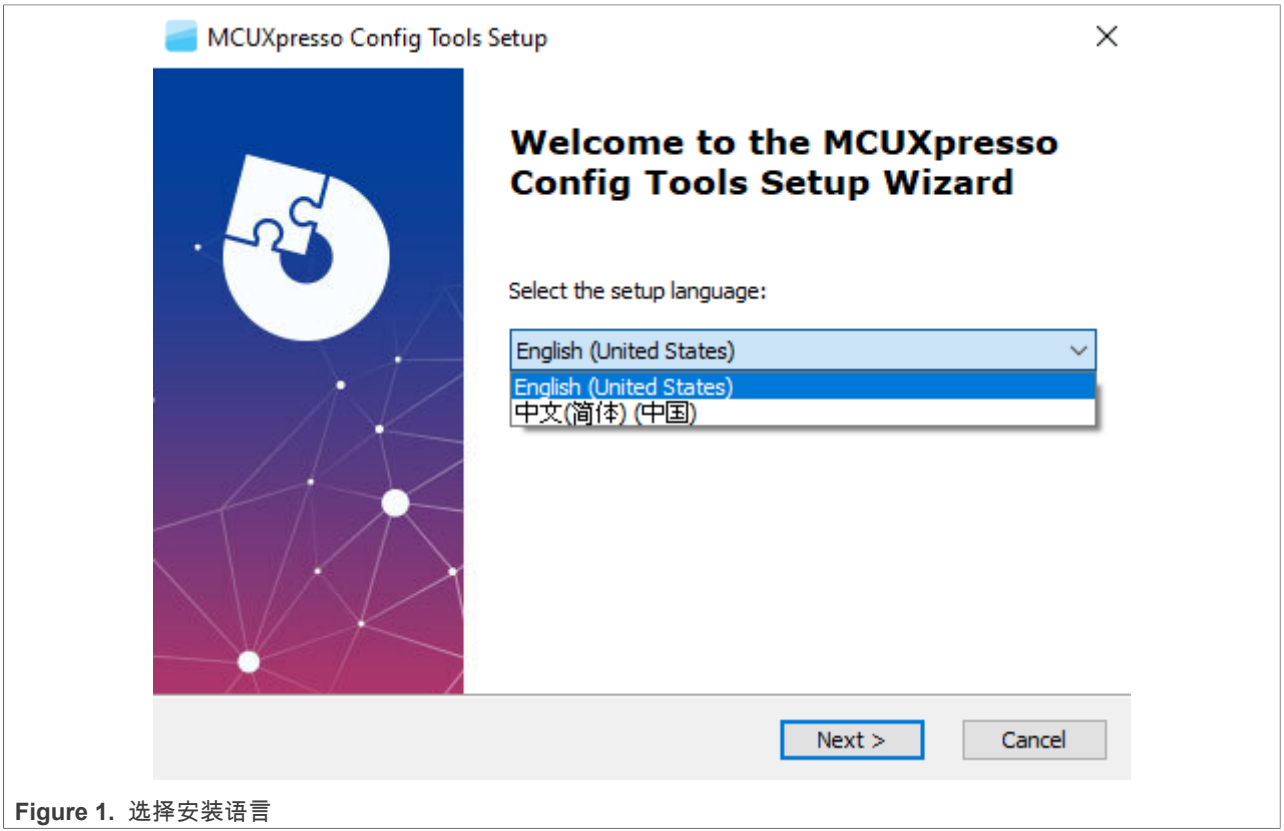

Figure 1. 选择安装语言

3. 点击 **Next**。
4. 在下一页，点击 **Next**。
5. 在向导的 **End-User License Agreement** 页面，选择 **I accept the terms of the License Agreement**。

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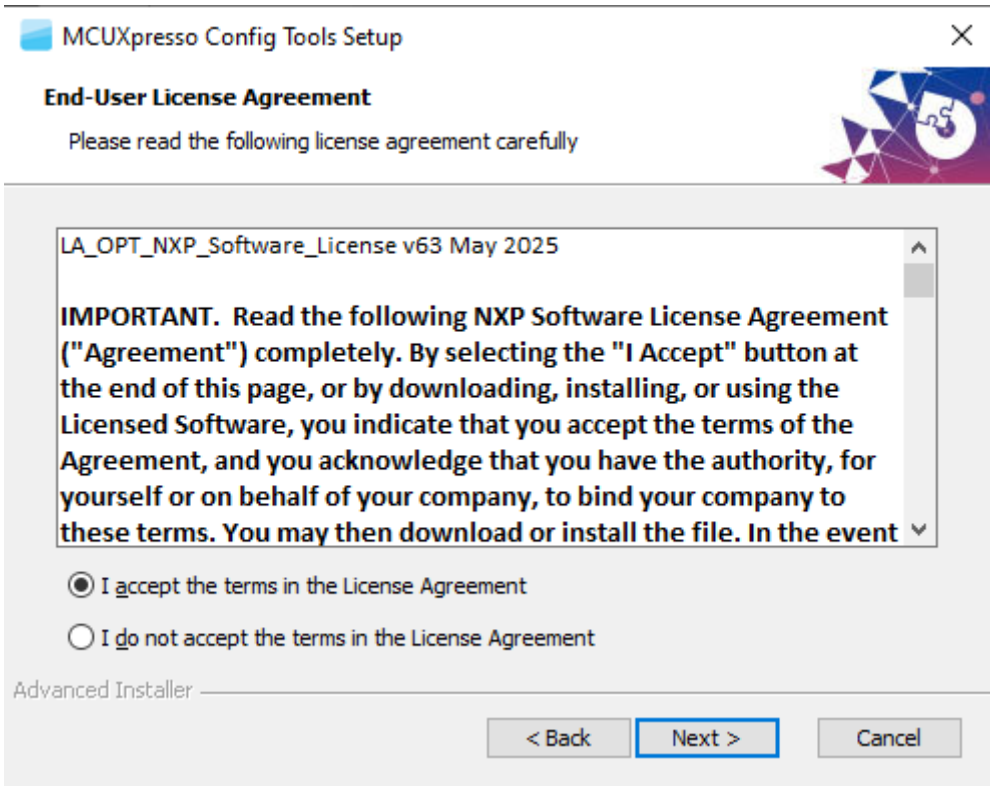

Figure 2. 接受最终用户许可协议

6. 点击 **Next**。
7. 在向导的 **Select Installation Folder** 页面，选择 **Browse** 并导航到您希望 MCUXpresso Config Tools 安装到的目标文件夹。

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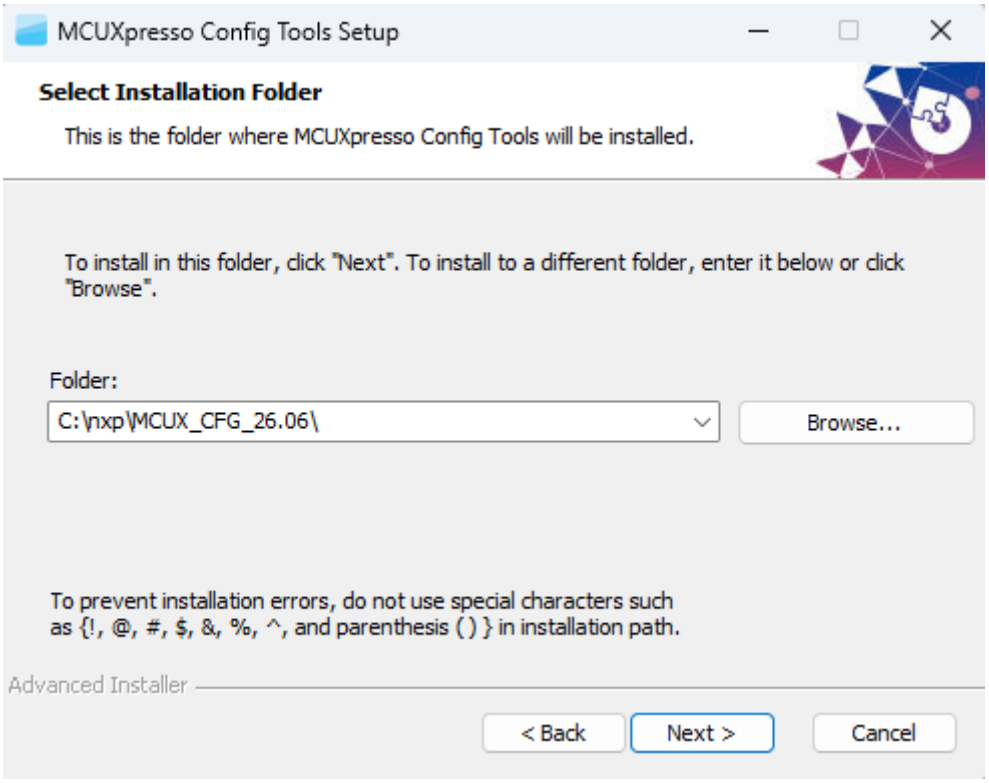

Figure 3. 选择安装文件夹

8. 点击 **Next**。
9. 在向导的 **Configure Shortcuts** 页面，选择您希望为 MCUXpresso Config Tools 创建的快捷方式。

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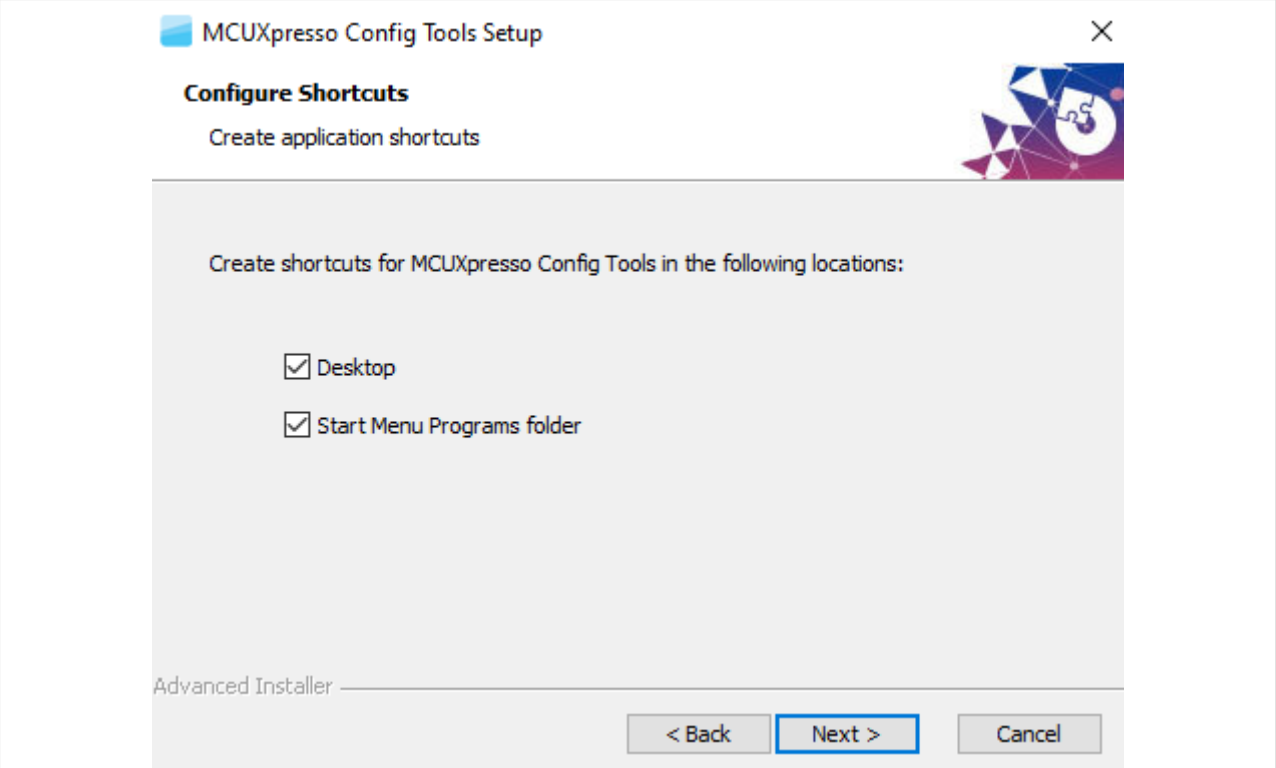

Figure 4. 配置快捷方式

10. 点击 **Next.**
11. 在向导的 **Ready to Install** 页面，选择 **Install**。

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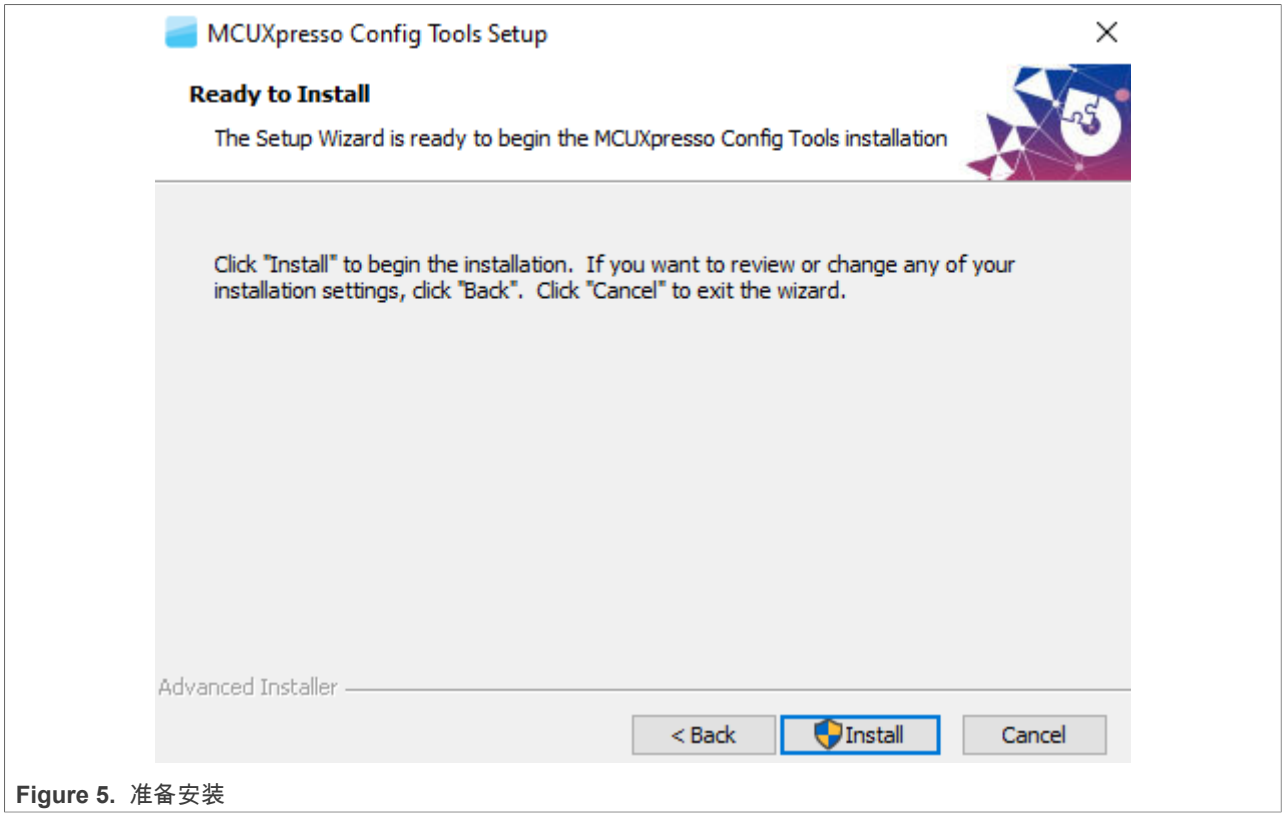

Figure 5. 准备安装

安装程序将开始安装。

注意： 如果您想查看或更改任何安装设置，请点击 **Back**。点击 **Cancel** 退出向导。

安装完成时，安装程序会提示您。

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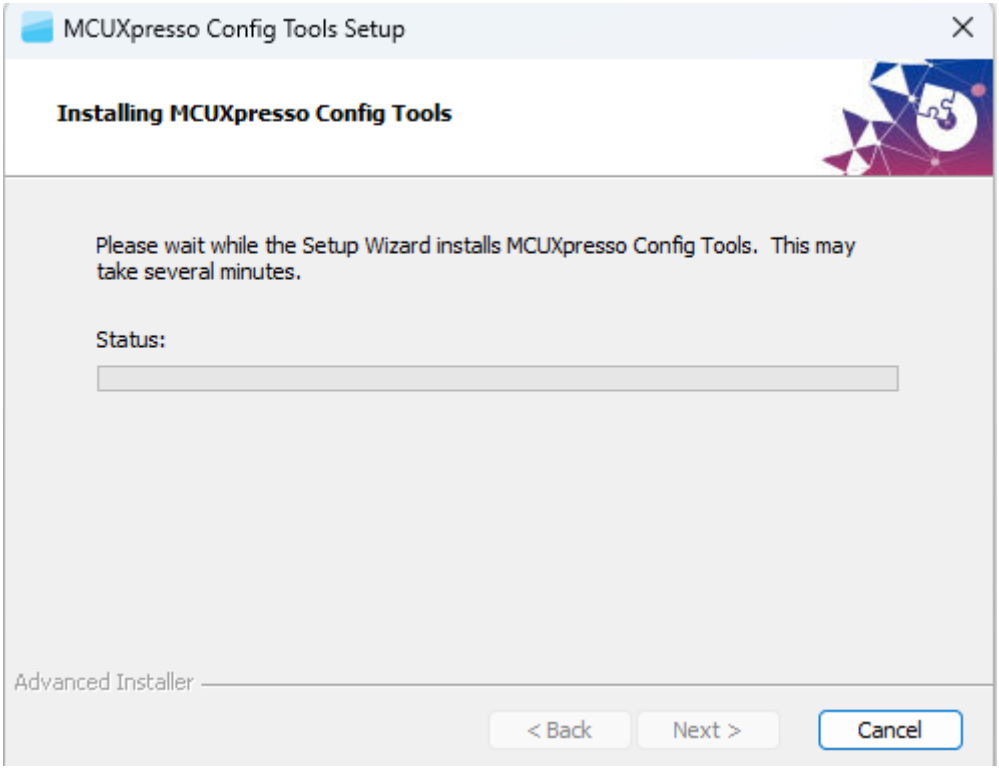

Figure 6. 正在安装 **MCUXpresso Config Tools**

12. 点击 **Finish** 关闭并退出安装向导。

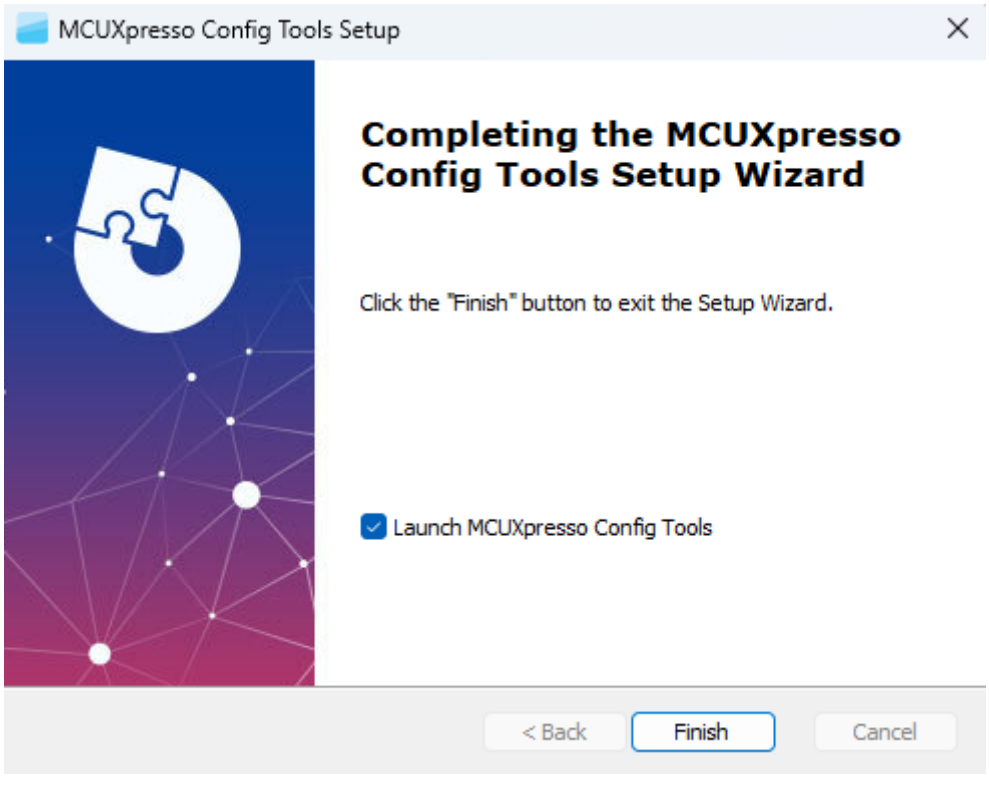

Figure 7. 完成安装

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13. 要开始使用 MCUXpresso Config Tools，请从桌面快捷方式或 **Start** 菜单运行工具。您也可以导航到 \bin\ 文件夹并启动 tools.exe 或启动 中的快捷方式。

5.2 在 Mac 上安装

要在本地主机上安装 MCUXpresso Config Tools 桌面应用程序：

1. 点击 `MCUXpresso_Config_Tools_<version>_<architecture>.pkg`.
   Install MCUXpresso Config Tools 安装程序启动，**Introduction** 页面出现。
   注意： 尝试打开 MacOS 安装程序时可能会收到错误。为避免此问题，请从 **Security & Privacy** 菜单手动选择 **Mac App Store and identified developers** 选项。

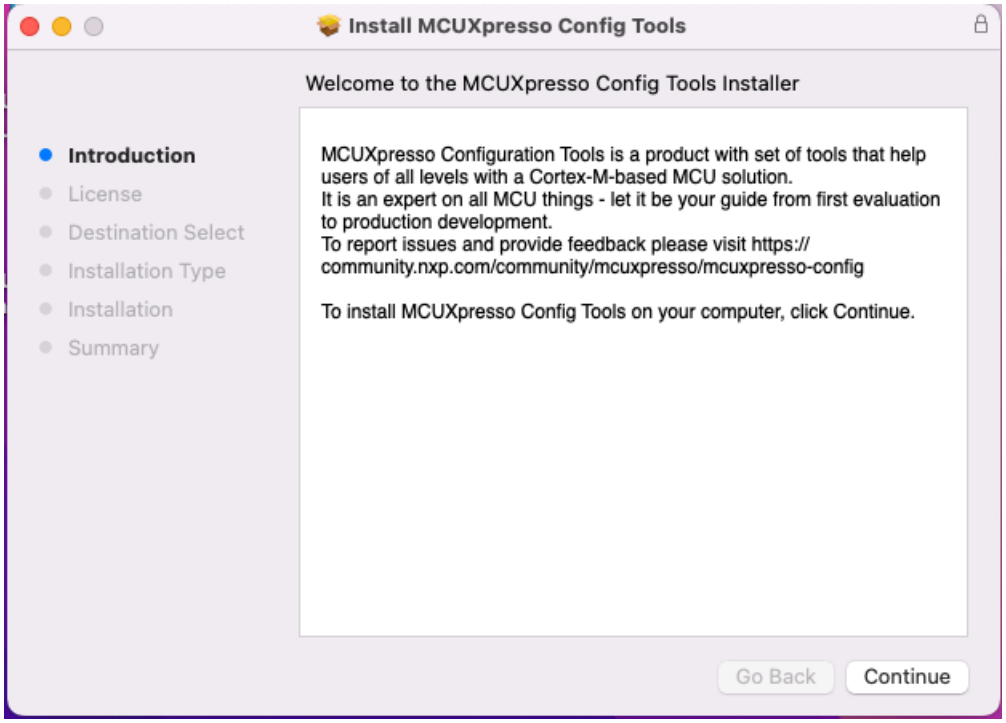

Figure 8. 简介

2. 点击 **Continue**。
   License 页面出现。

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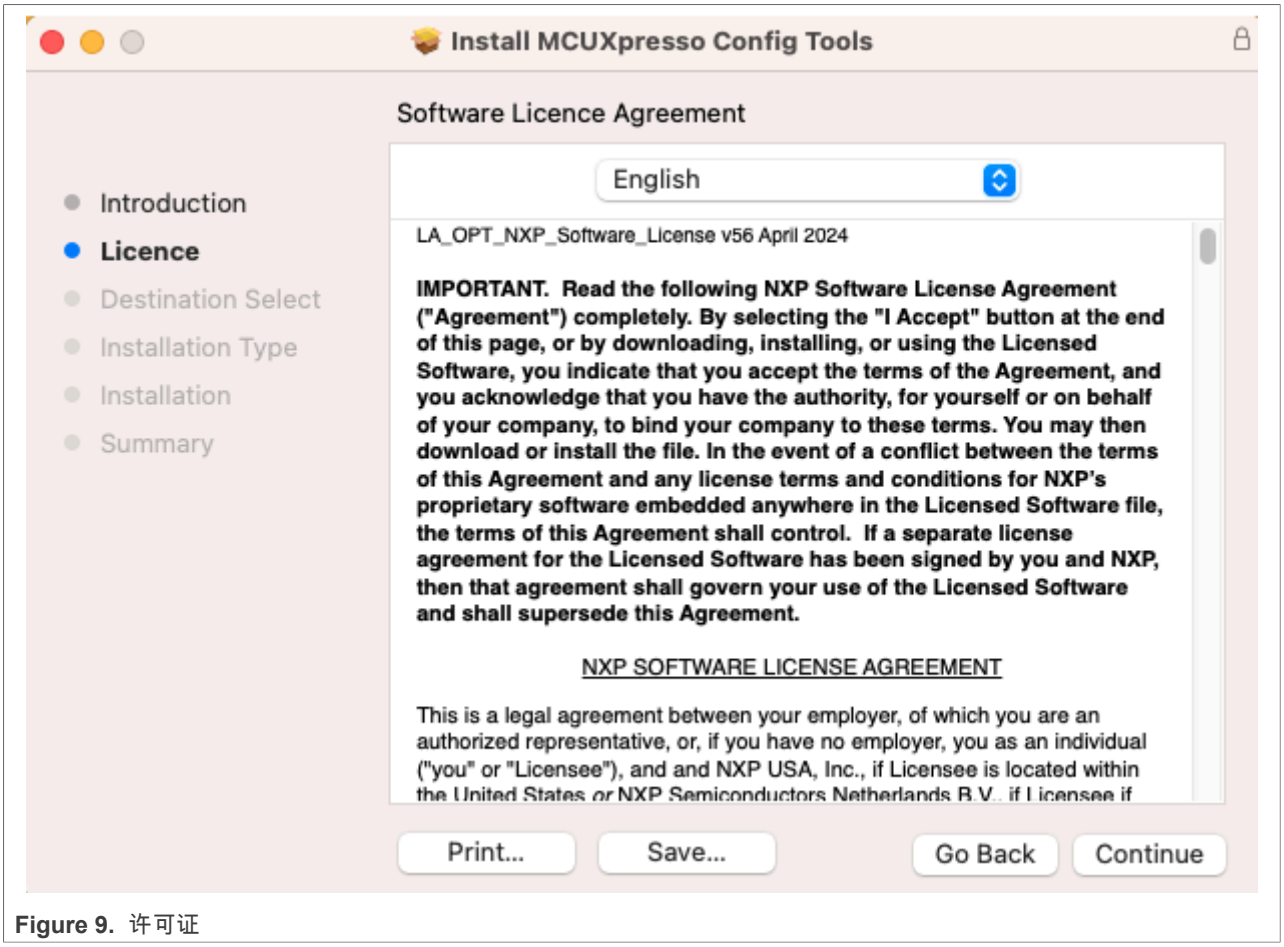

Figure 9. 许可证

注意： 要安装 MCUXpresso Config Tools，请同意软件许可协议的条款。

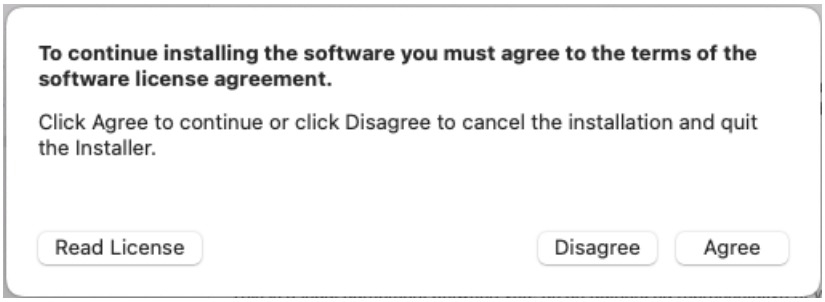

Figure 10. 软件许可协议

3. 点击 **Continue**。
   Installation Type 页面出现。

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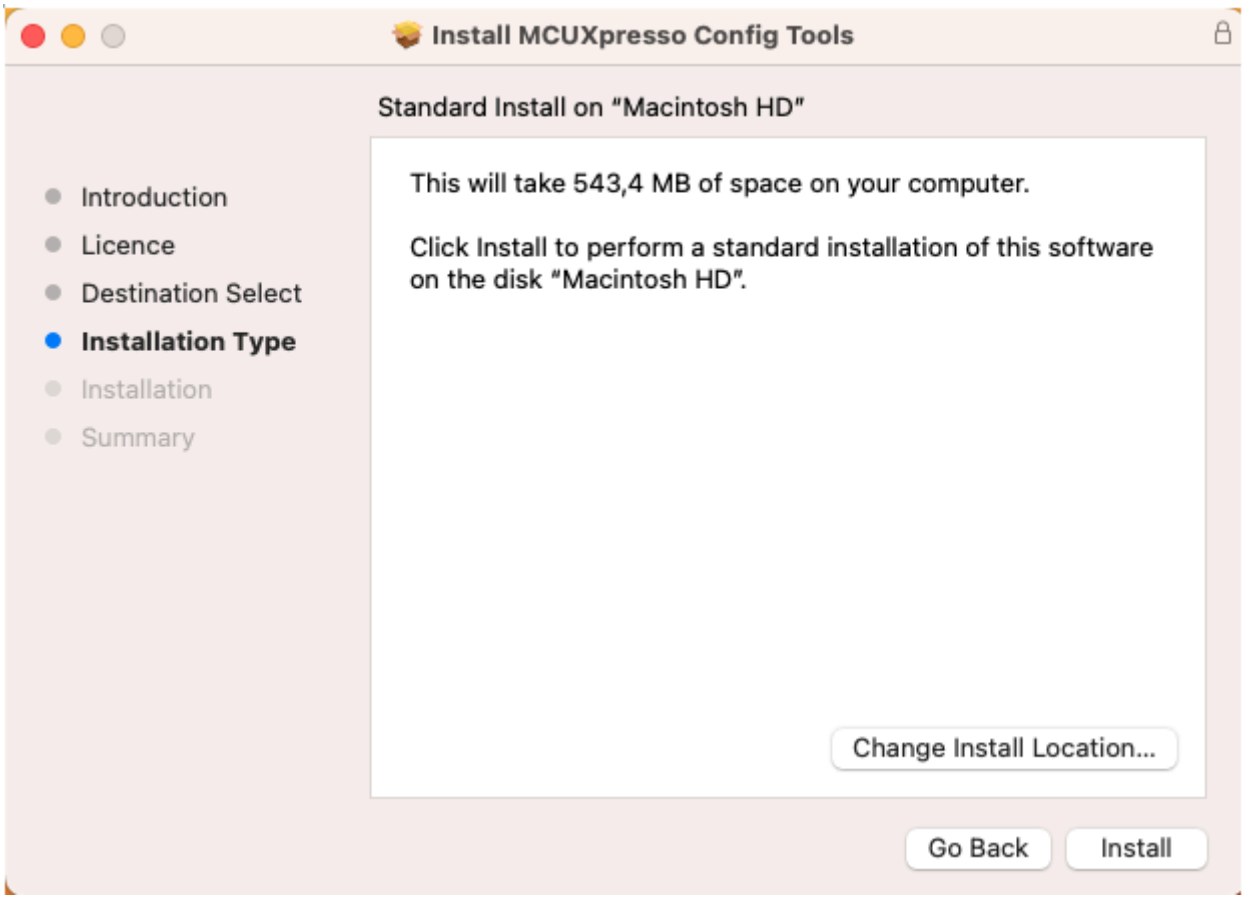

Figure 11. 安装类型

4. 点击 **Install**。
   Installation 页面出现。
5. 输入您的登录凭据以继续安装。
6. 点击 **Install Software**。

Figure 12. 安装软件

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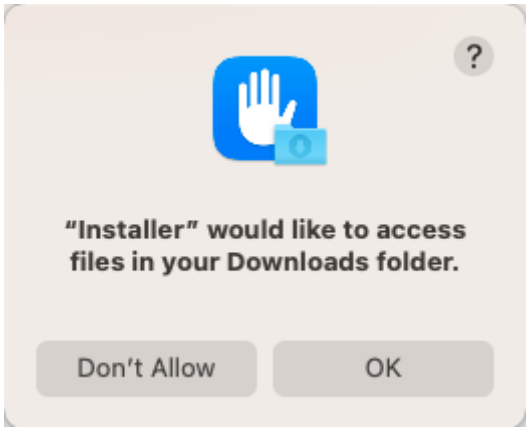

Figure 13. 安装软件

7. 点击 **Continue**。
   Summary 页面提示安装已成功完成。

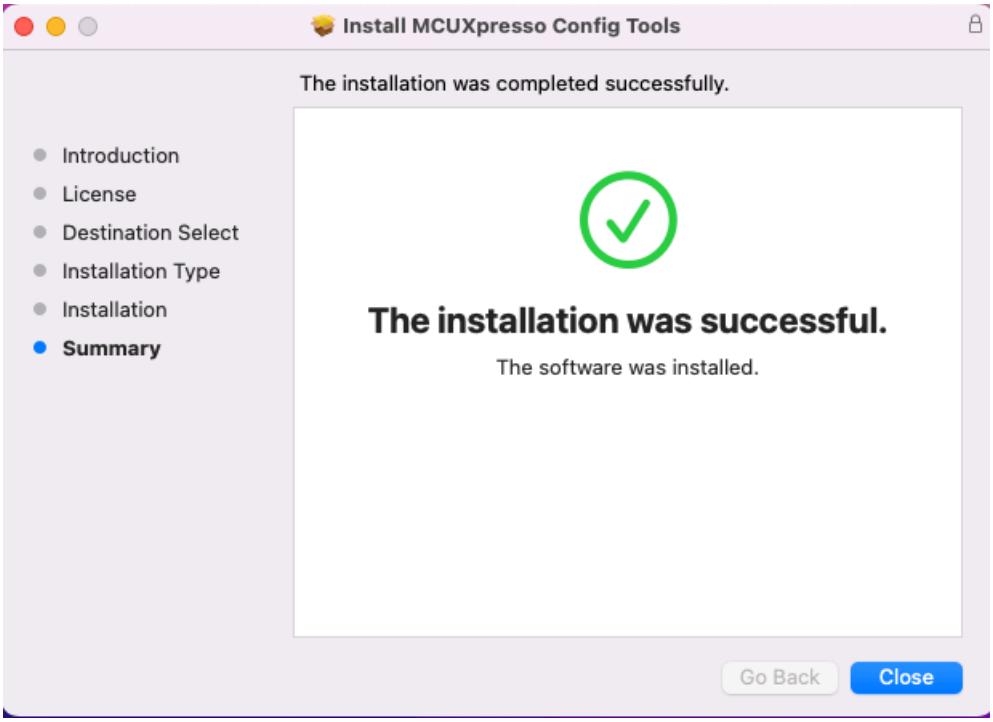

Figure 14. 摘要

8. 点击 **Close** 退出安装向导。

5.3 在 Linux 上安装

本节提供在 Linux 上安装 MCUXpresso Configuration Tools 的详细信息。

5.3.1 使用命令行安装

```
 chmod +x ./<name><version>-<pkg_revision><architecture>.deb.bin
$ sudo ./<name>_<version>-<pkg_revision>_<architecture>.deb.bin
```


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```
(Reading database ... .... files and directories currently installed .)
Preparing to replace <name> <version> (using
<name>_<version>-<pkg_revision>_<architecture>.deb) ...
Unpacking replacement <name> ...
Setting up <name> (<version>) ...
```

这将工具安装到默认位置（/opt/nxp/<default_path>）。

5.3.2 使用命令行卸载

在终端中，您可以获取带有包名称的 MCUX Config Tools 列表。

```
dpkg --list "mcuxpresso-config-tools*"
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name                          Version      Architecture Description
+++-=============================-============-============-
==================================
ii  mcuxpresso-config-tools-v16 16.0         amd64        MCUXpresso Config
 Tools
```

现在，可以卸载所需的版本：

```
 sudo dpkg -r mcuxpresso-config-tools-v16
```

6 Note about the source code in the document

Example code shown in this document has the following copyright and BSD-3-Clause license:

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7 修订历史

Table 1. 修订记录

文档 ID	发布日期	描述
KEXTIUG_ZH v.17.0	2026年9月17日	为 v.26.09 更新
KEXTIUG_ZH v.16.0	2026年6月24日	为 v.26.06 更新
KEXTIUG_ZH v.15.0	2026年3月25日	为 v.26.03 更新
KEXTIUG_ZH v.14.0	2025年12月16日	为 v.25.12 更新
KEXTIUG_ZH v.13.0	2025年9月18日	为 v.25.09 更新
KEXTIUG_ZH v.12.0	2025年6月20日	为 v.25.06 更新
KEXTIUG_ZH v.11.0	2025年3月17日	为 v.25.03 更新
KEXTIUG_ZH v.10.0	2025年1月15日	为 v.24.12 更新
KEXTIUG_ZH v.9.0	2024年9月24日	为 v.16.1 更新
KEXTIUG_ZH v.8.0	2024年7月1日	为 v.16 更新
KEXTIUG_ZH v.7.0	2024年4月19日	为 v.15.1 更新
KEXTIUG_ZH v.6.0	2024年1月10日	为 v.15 更新
KEXTIUG_ZH v.5.0	2023年7月31日	为 v.14 更新
KEXTIUG_ZH v.4.0	2023年1月2日	截图已更新，小幅更新
KEXTIUG_ZH v.3.0	2022年9月20日	为 v.12.1 更新
KEXTIUG_ZH v.2.0	2022年6月30日	为 v.12 更新
KEXTIUG_ZH v.1.0	2021年12月22日	截图已更新。
KEXTIUG_ZH v.0	2021年6月23日	初始版本

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