IMXIUG_ZH

i.MX 配置工具安装用户指南

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

Document information

Information	Content
Keywords	MCUXpresso配置工具，i.MX
Abstract	i.MX 配置工具 MCUXpresso 配置工具的一部分，是一套评估和配置工具，可指导用户完成从首次评估到生产软件开发的整个流程。使用 i.MX 配置工具可轻松简便地配置 i.MX 处理器设备的引脚 和 DDR。一般而言，该软件使您能够创建、检查、更改和修改设备的针脚配置和多路复用方面的任何内容。它还允许您配置和验证 DDR 设置。本文档介绍了 i.MX 配置工具的基本组件，并列出了配置和使用它们来配置管脚和 DDR 的步骤。

1 简介

Config Tools for i.MX 是一款软件工具，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 Config Tools for i.MX 软件。

Config Tools for i.MX 可以离线（本地）安装在主机上，用于引脚路由配置、验证和代码生成，包括引脚功能/电气属性、电源轨和运行时功能。

Config Tools for i.MX 适用于一般用途，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（FAE），由多个工具组成。

Pins 工具的主要功能包括：

- 用于创建和更改引脚配置的图形视图
- 创建用于设备初始化的 C 源代码和设备树片段（DTS）
- 包含所有引脚和可路由外设的封装
- 带有初始化值的寄存器

DDR 工具的主要功能包括：

- 用于显示和更改基本 DDR 属性（如内存类型、频率或通道数）的图形视图
- 用于测试和验证 DDR 设置的图形视图

注意： 如果 MacOS 设置为繁体中文，Config Tools for i.MX 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：

- 以下图形操作系统之一：
  - Microsoft Windows 11（64位）
  - Ubuntu 24.04 LTS

    注意： Linux 托管的工具变体在 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
- 分辨率为 1366 x 768 的显示器
- 用于从处理器数据库动态下载的互联网连接

3 支持的处理器

Config Tools for i.MX 安装时包含有限的处理器数据和设备支持。您可以稍后下载其他支持的设备。

注意： 安装支持的处理器数据需要互联网连接。

4 限制

请参阅 *MCUXpresso Configuration Tools for i.MX Application Processors Release Notes* 文档 MCUXCTIMXRN 了解限制。

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5 安装

Config Tools for i.MX 提供"离线"安装程序。

此安装程序文件包含安装过程中所需的所有文件，无需互联网连接即可完成安装。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。

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。

要在本地主机上将 Config Tools for i.MX 安装为桌面应用程序：

1. 运行 `Config_Tools_for_i.MX_<version>_<architecture>.exe`。
   Config Tools for i.MX 安装 向导将启动。
2. 选择您要运行安装程序的语言。

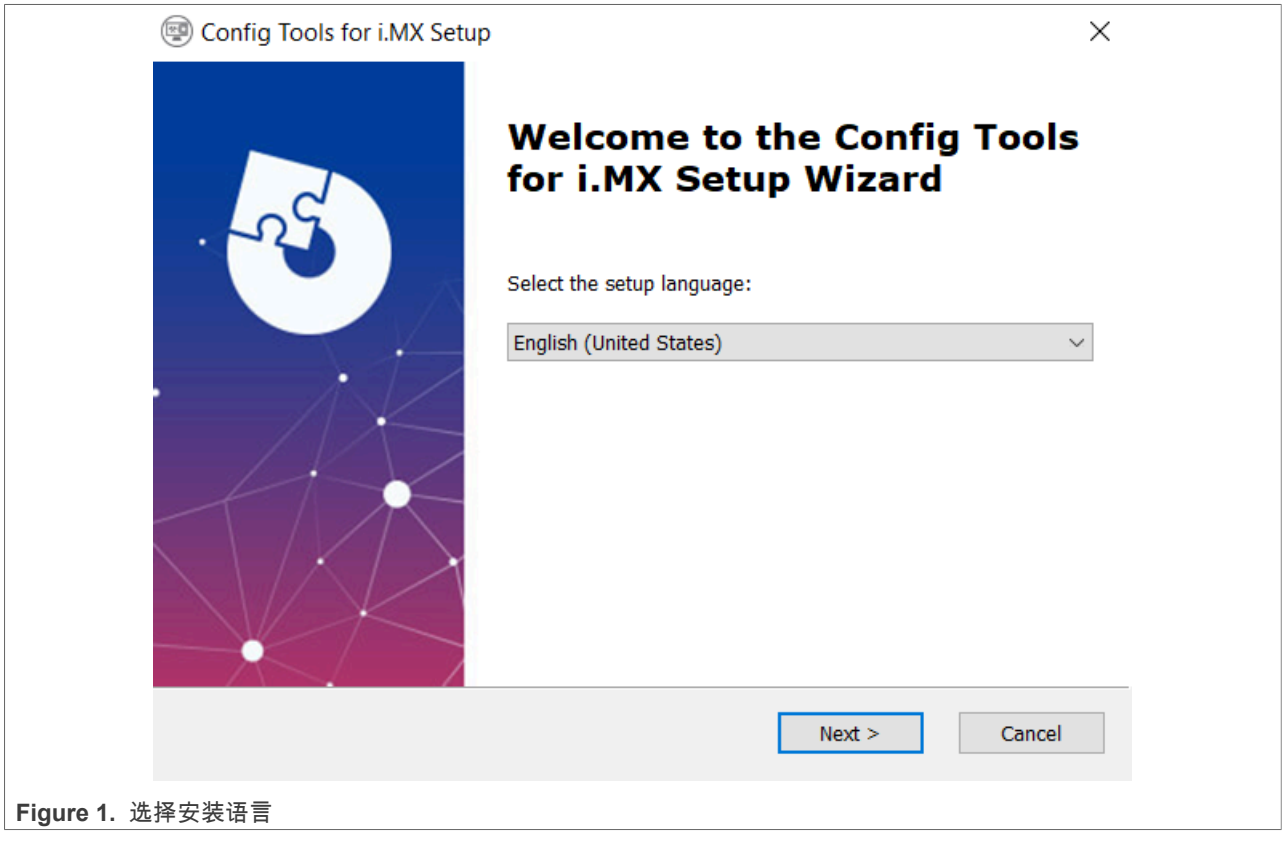

Figure 1. 选择安装语言

3. 点击 下一步。
4. 在下一页上，点击 下一步。
5. 在向导的 最终用户许可协议 页面上，选择 我接受许可协议的条款。

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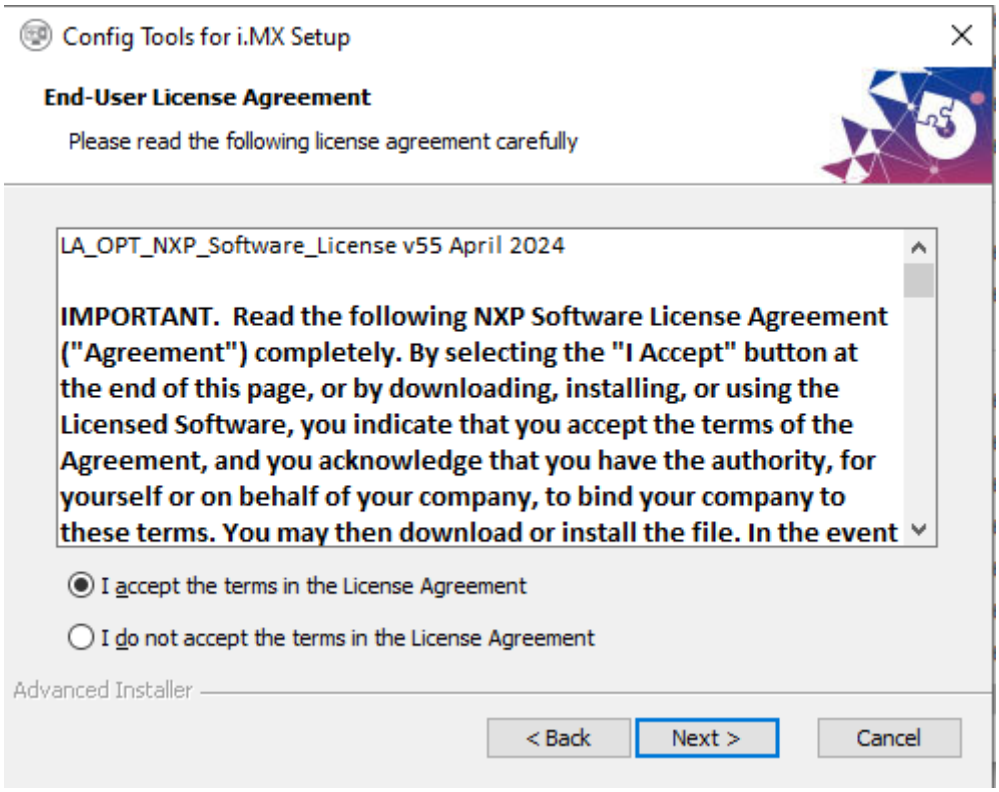

Figure 2. 接受最终用户许可协议

6. 点击 下一步。
7. 在向导的 选择安装文件夹 页面上，选择 浏览 并导航到您希望 Config Tools for i.MX 安装到的目标文件夹。

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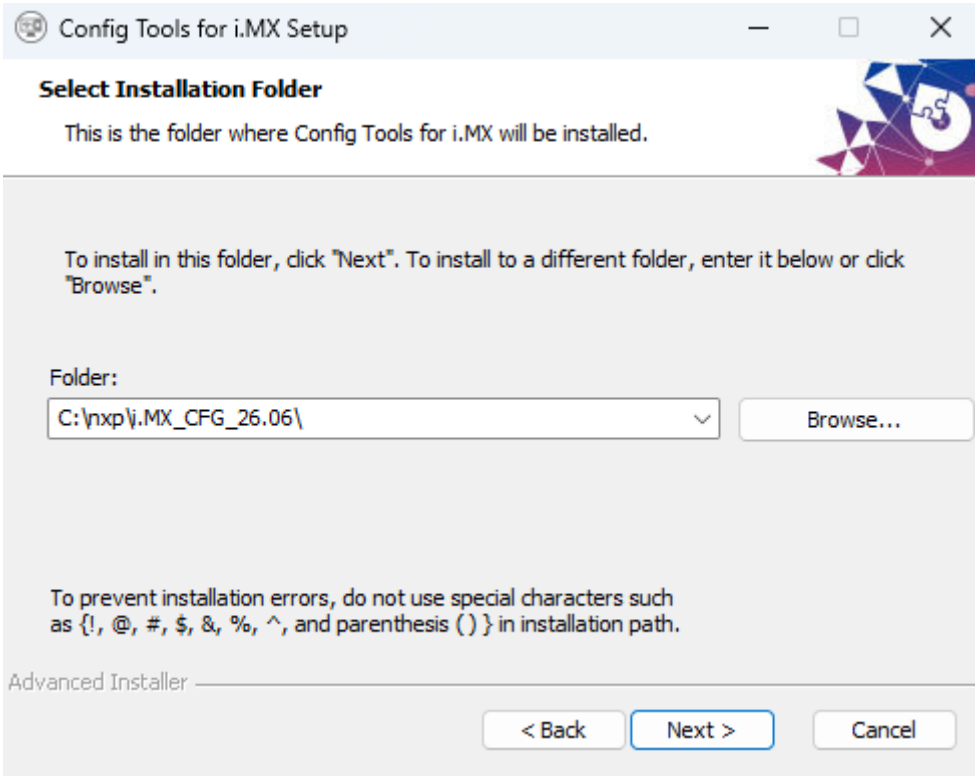

Figure 3. 选择安装文件夹

8. 点击 下一步。
9. 在向导的 配置快捷方式 页面上，选择您希望为 Config Tools for i.MX 创建的快捷方式。

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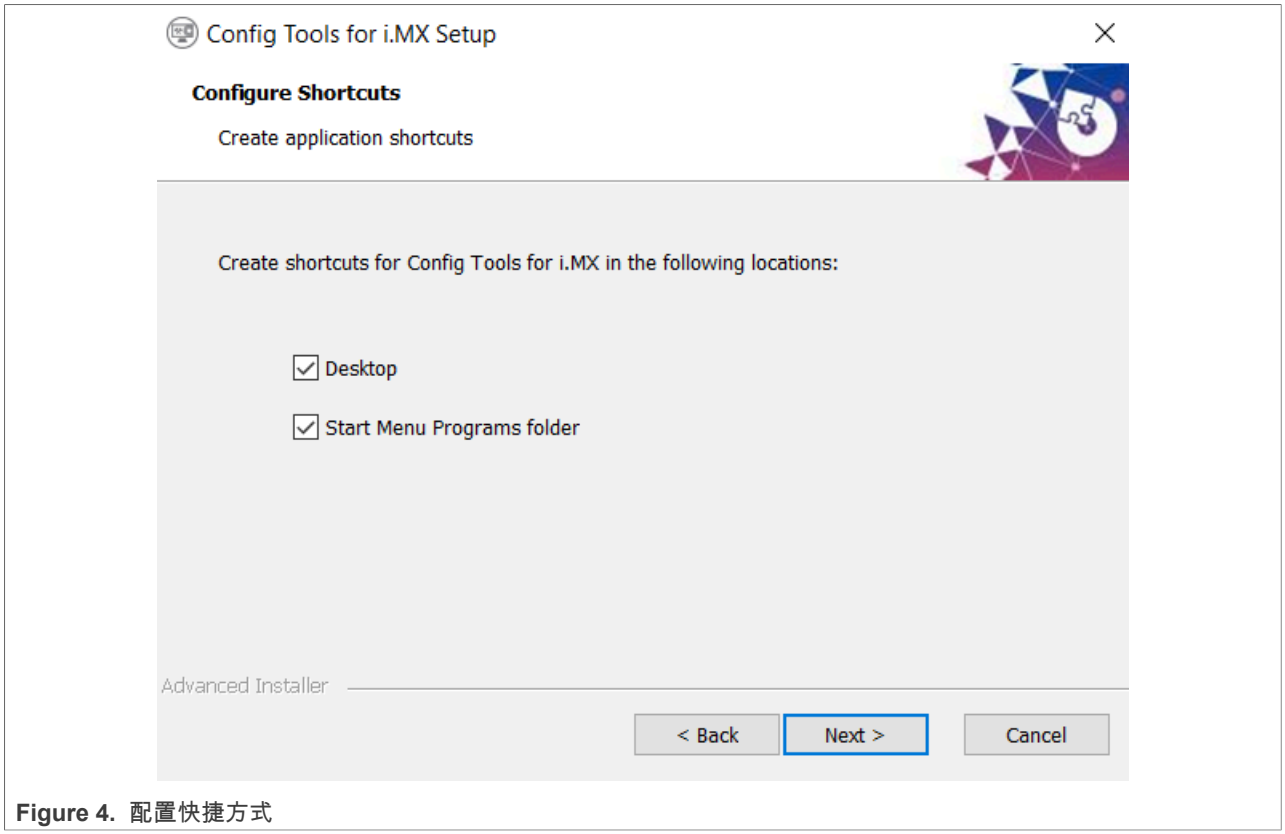

Figure 4. 配置快捷方式

10. 点击 下一步。
11. 在向导的 准备安装 页面上，选择 安装。

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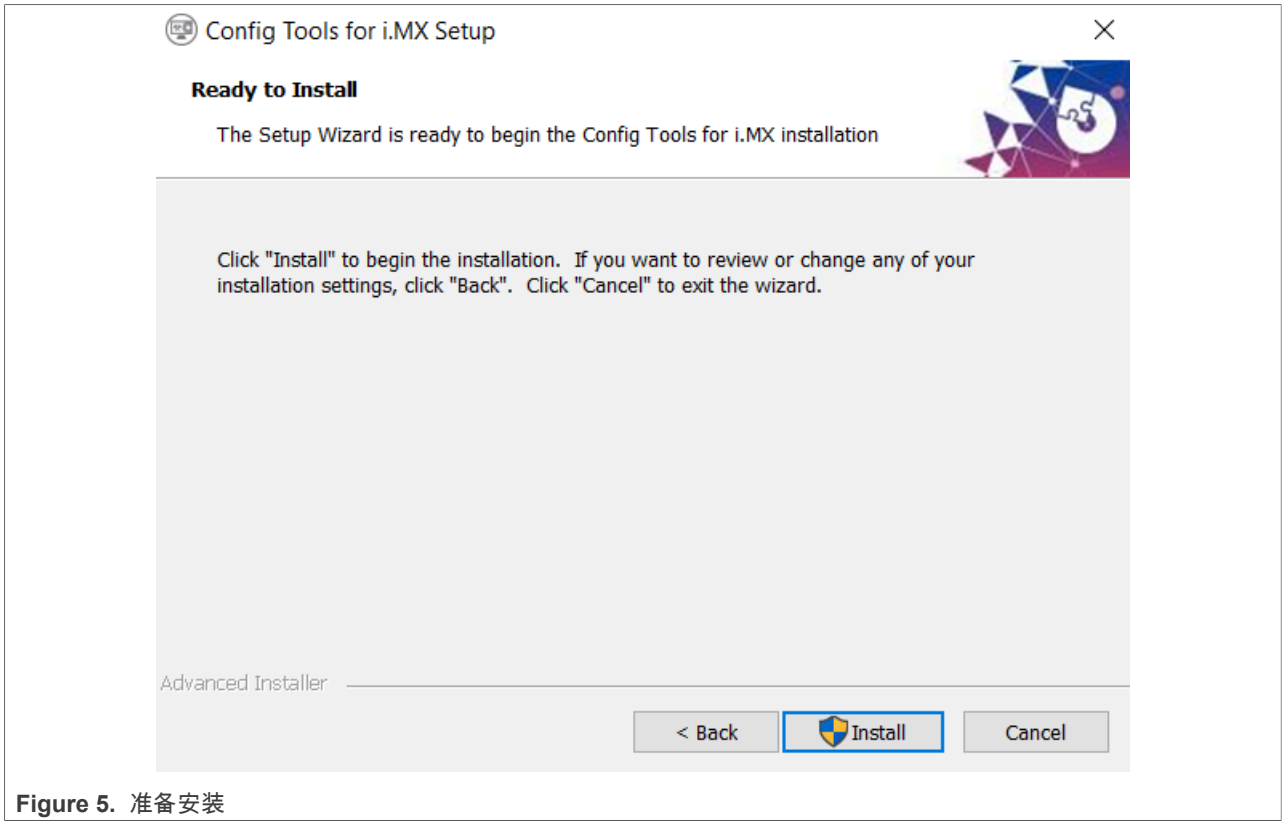

Figure 5. 准备安装

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 返回。点击 取消 退出向导。

安装完成时，安装程序会提示您。

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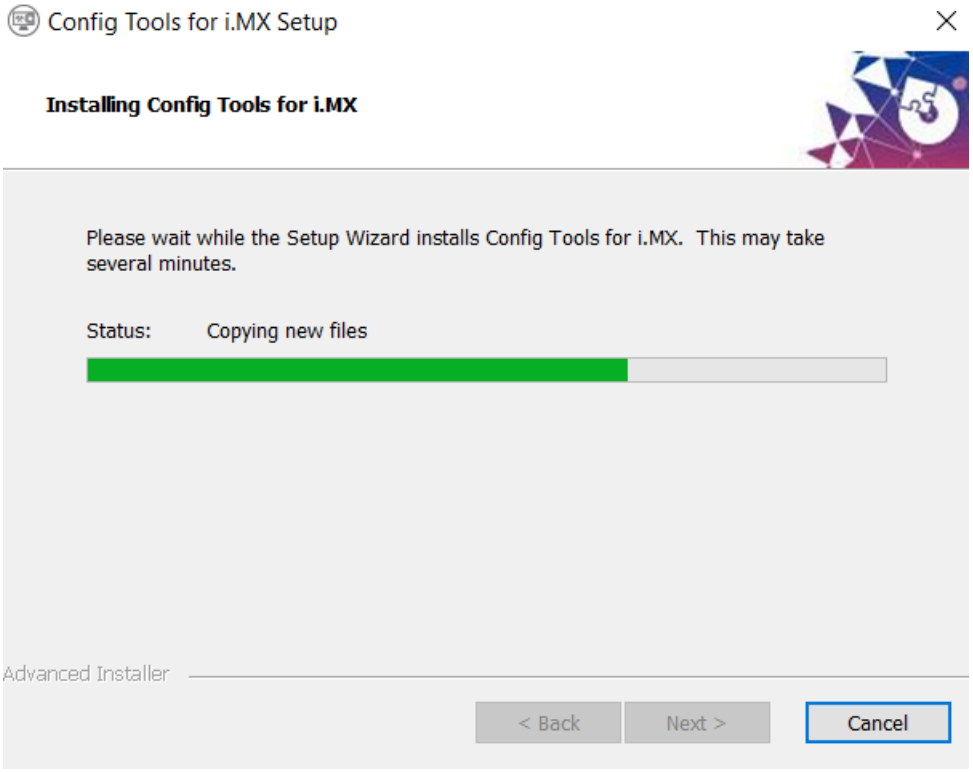

Figure 6. 正在安装 **Config Tools for i.MX**

12. 点击 完成 关闭并退出安装向导。

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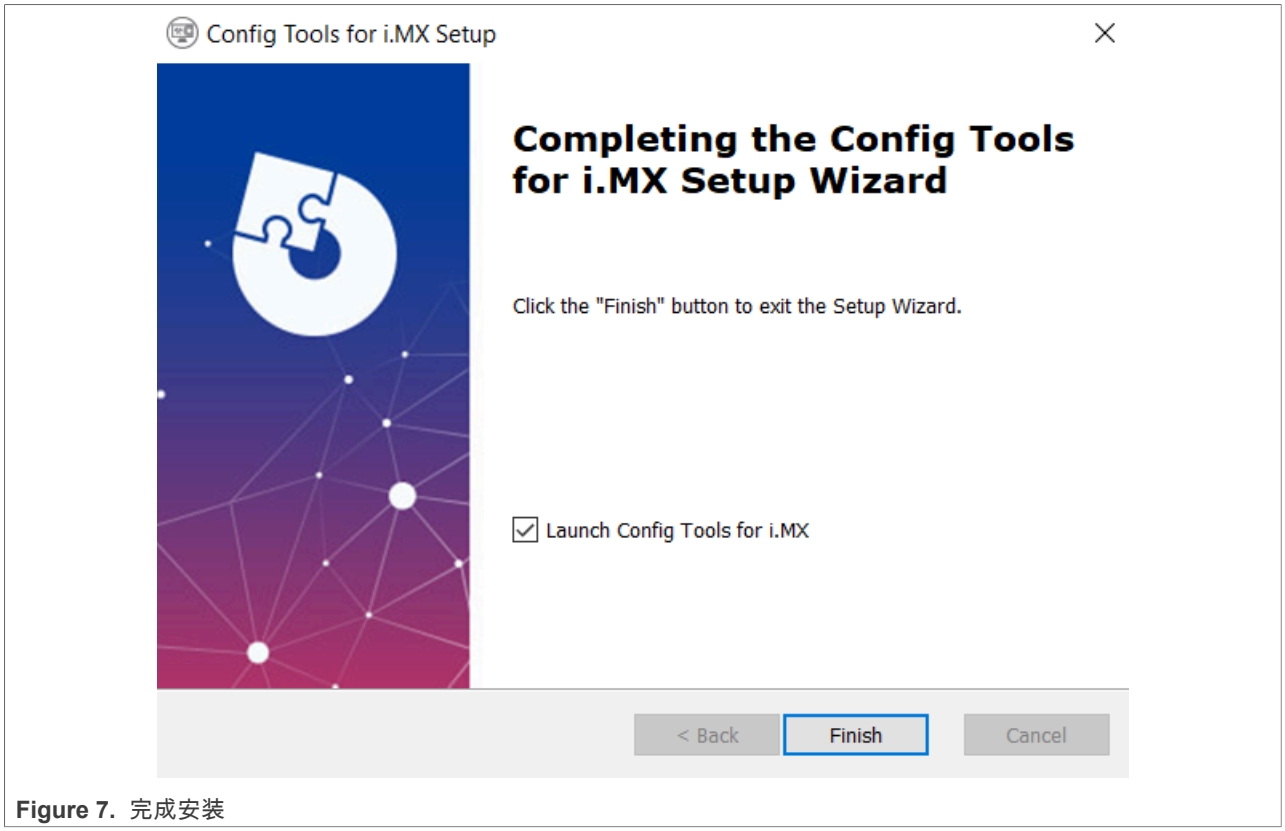

Figure 7. 完成安装

13. 要开始使用 i.MX 的配置工具，请从桌面上的快捷方式或 开始 菜单运行该工具。您也可以导航到产品安装目录下的 \bin\ 文件夹，启动 tools.exe，或者在产品安装目录中启动快捷方式。

5.2 在 Mac 上安装

要在本地主机上将 Config Tools for i.MX 安装为桌面应用程序，请执行以下操作：

1. 双击 `Config_Tools_for_i.MX_<version>_<architecture>.pkg` 启动 安装 **Config Tools for i.MX** 安装程序

   注意： 当您尝试打开 MacOS 安装程序时，可能会收到错误。为避免此问题，请在 安全与隐私 菜单中手动选择 **Mac App Store** 和已识别的开发者 选项。

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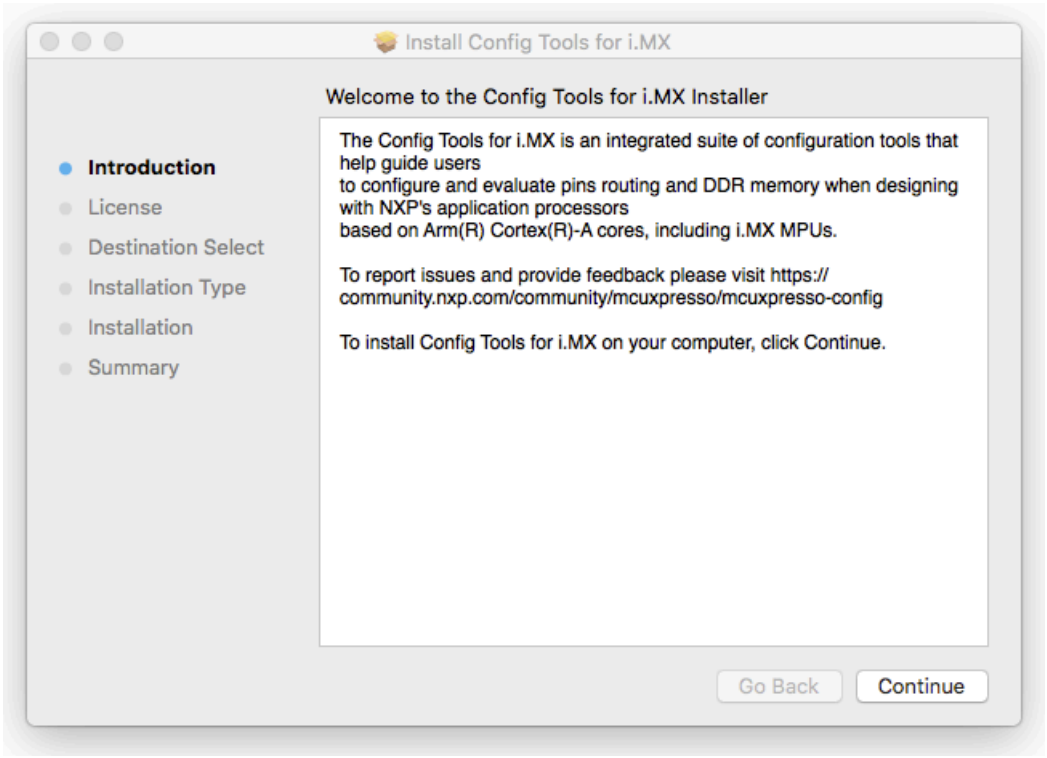

Figure 8. 简介

2. 在 简介 页面上，点击 继续。
3. 在 软件许可协议 页面上，点击 继续。

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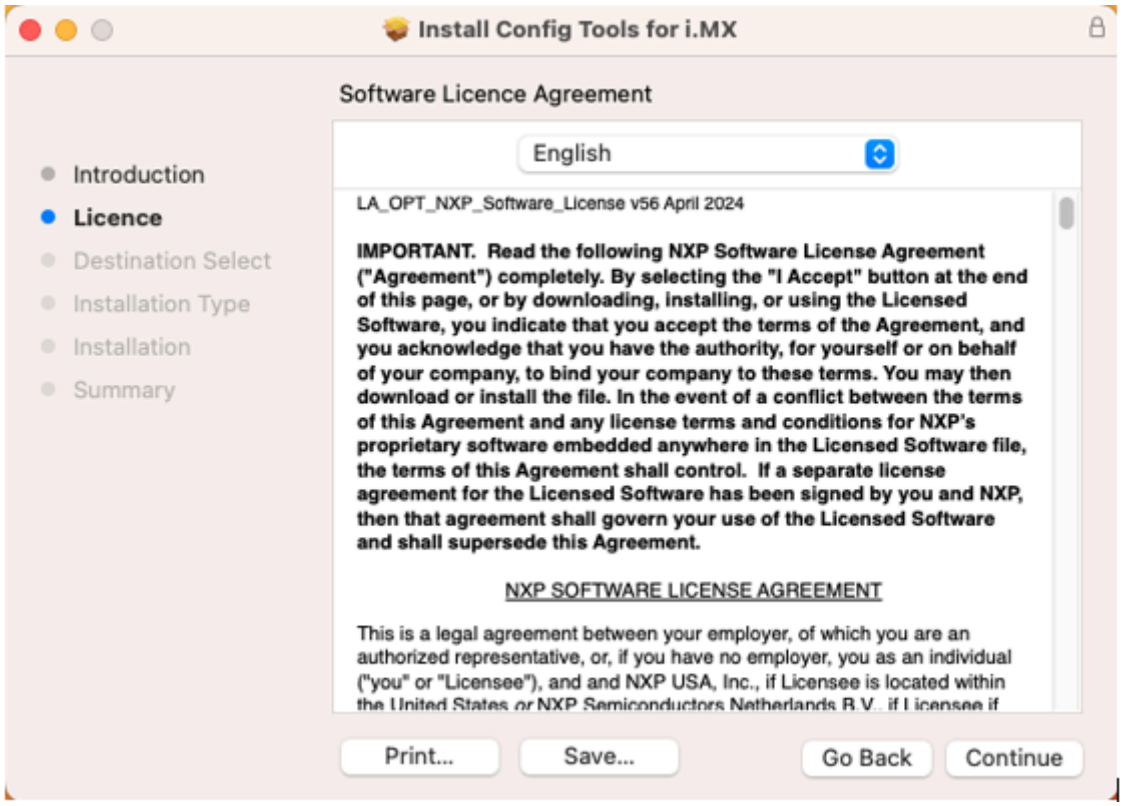

Figure 9. 软件许可协议

4. 通过点击 同意 确认您已阅读并同意软件许可协议的条款。

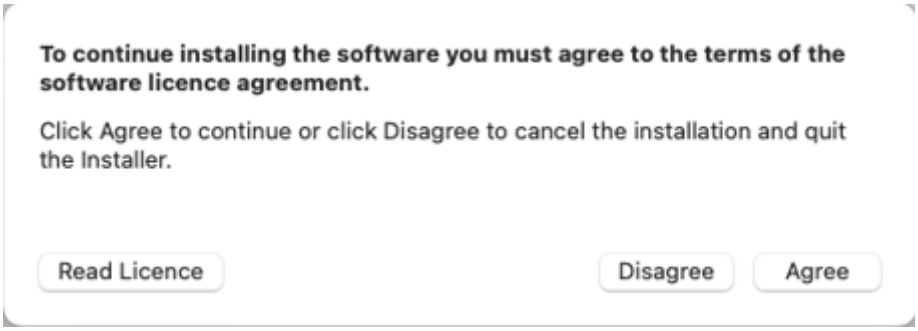

Figure 10. 软件许可协议

5. 在 目标选择 页面上，点击绿色箭头选择安装文件夹。

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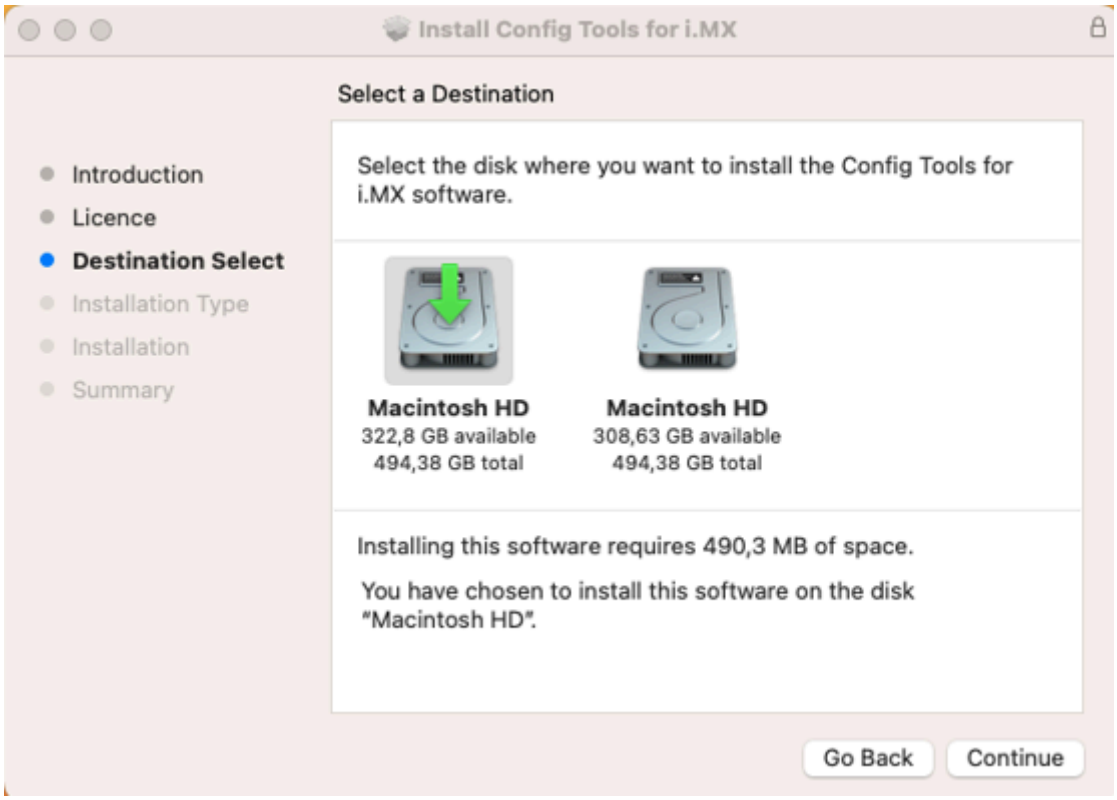

Figure 11. 选择目标

6. 点击 继续。
7. 在 安装类型 页面上，点击 安装。

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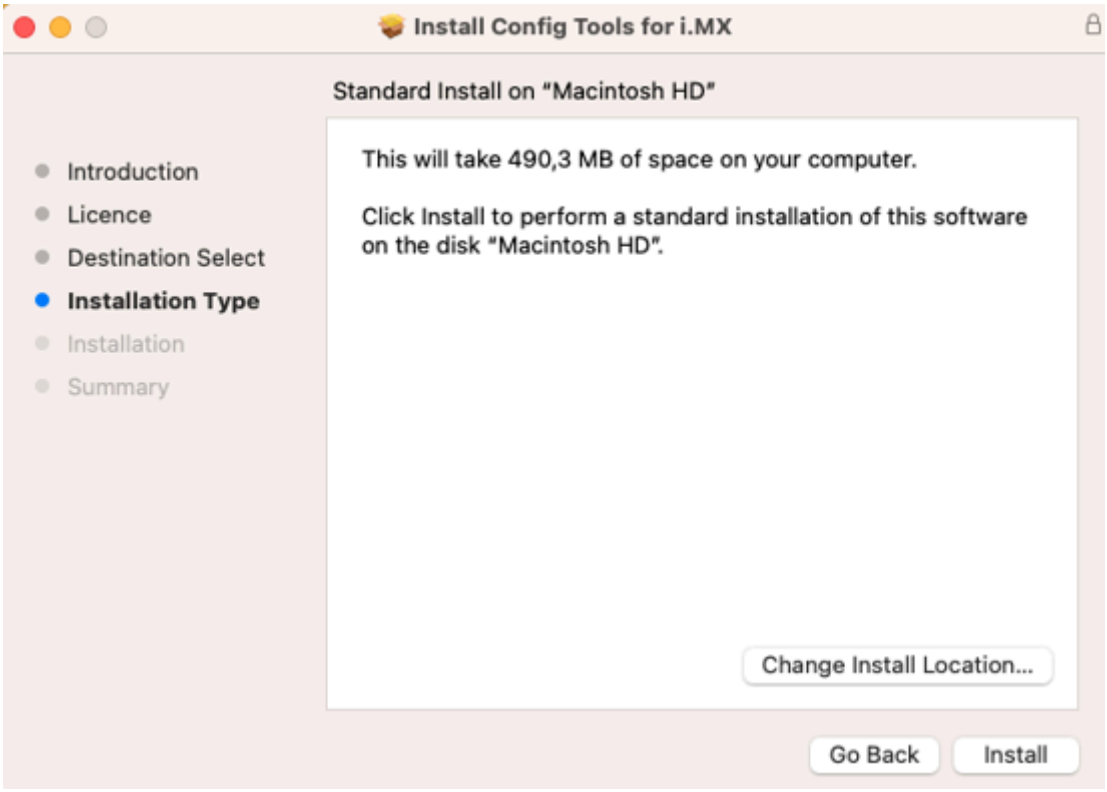

Figure 12. 安装类型

8. 输入您的登录凭据以继续安装。
9. 点击 安装软件。

Figure 13. 安装软件

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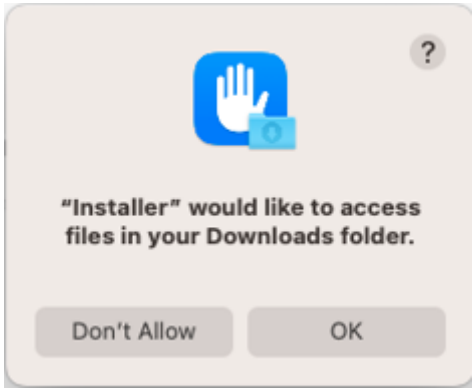

Figure 14. 安装软件

10. 点击 继续。
除非报告错误，否则 摘要 页面将确认安装已成功完成。

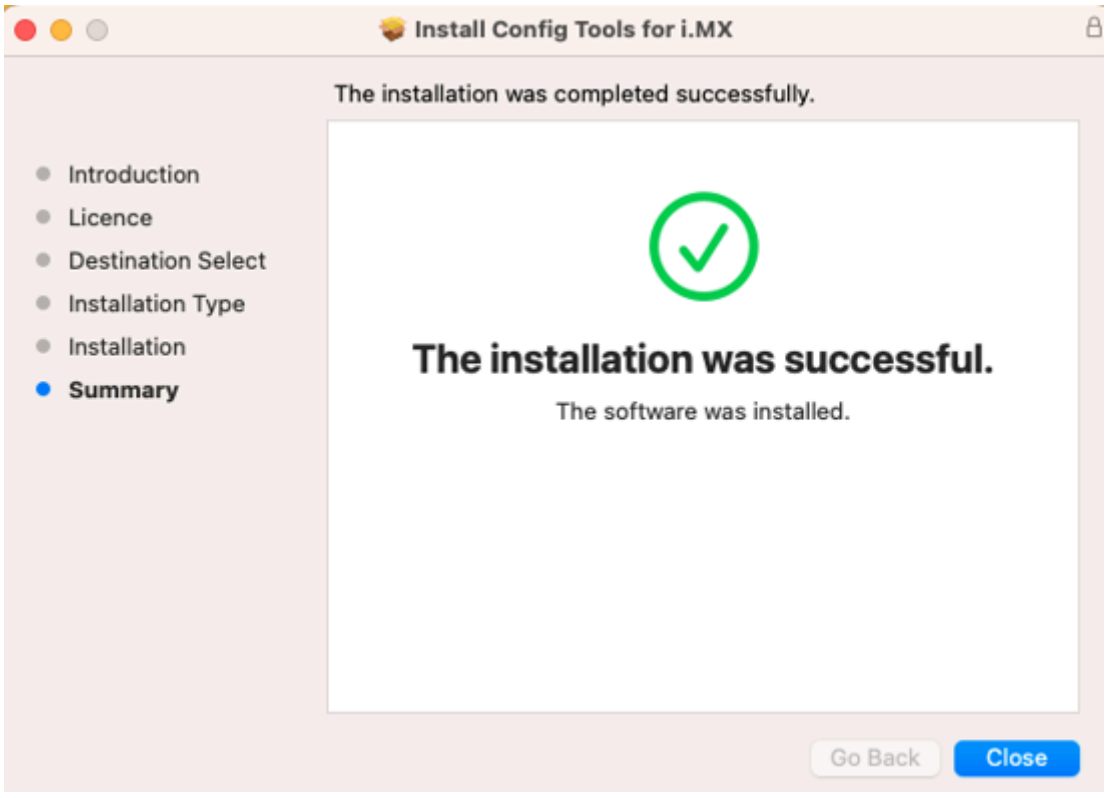

Figure 15. 摘要

11. 点击 关闭 退出安装向导。

5.3 在 Linux 上安装

本章提供在 Linux 上安装和卸载工具的信息。

5.3.1 使用命令行安装

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


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```
$ sudo ./<name>_<version>-<pkg_revision>_<architecture>.deb.bin
  (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>) ...
```

这会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 "config-tools-for-imx*"
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 config-tools-for-imx-v16 16.0 amd64 Config Tools for i.MX
```

现在，可以卸载所需的版本：

```
 sudo dpkg -r config-tools-for-imx-v16
```

6 Note about the source code in the document

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7 修订历史

Table 1. 修订记录

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

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Contents

1 简介 **2**
2 最低系统要求 **2**
3 支持的处理器 **2**
4 限制 **2**
5 安装 **3**
5.1 在 Windows 上安装 3
5.2 在 Mac 上安装 9
5.3 在 Linux 上安装 14
5.3.1 使用命令行安装 14
5.3.2 使用命令行卸载 15
6 **Note about the source code in the document** **15**
7 修订历史 **16**
Legal information **17**

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