



# Secure Provisioning SDK (SPSDK)

## SPSDK

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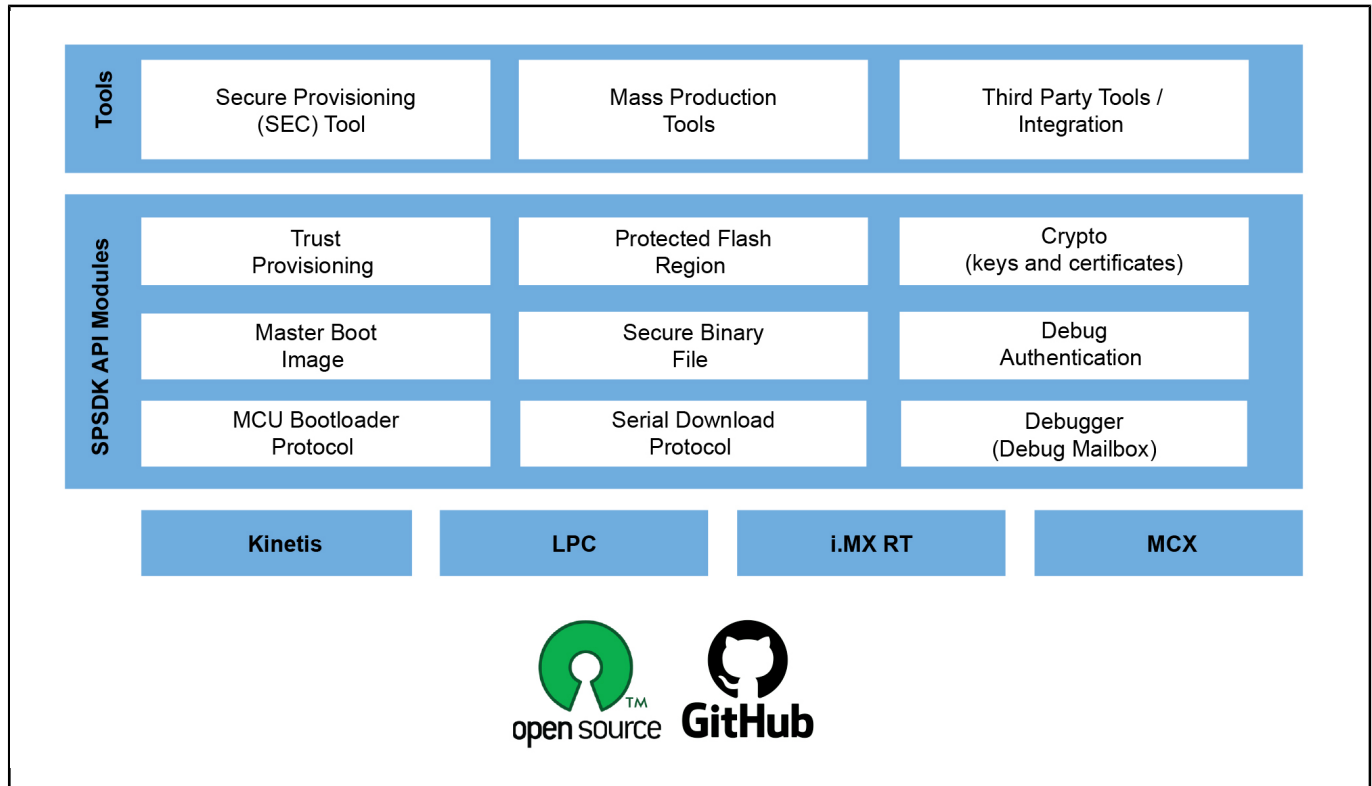
NXP provides [MCUXpresso Secure Provisioning \(SEC\)](#) and Secure Provisioning SDK (SPSDK) for trial run and mass production use. Both SEC tool and SPSDK support secure programming and device provisioning on NXP's microcontrollers at the production stage.

[MCUXpresso Secure Provisioning \(SEC\) tool](#) is a GUI-based tool which leverages low-level functionality of the open-source SPSDK with its binary executables released as part of the SEC tool. The SEC tool graphical interface makes production flow simpler for general needs of a production process.

Secure Provisioning SDK (SPSDK) is an open-source development kit with its source code released on [Github](#) and [PyPI](#). It contains a set of API modules for custom production tool development which requires more advanced secure provisioning flow. SPSDK enables connection and communication with NXP's microcontrollers for the following purposes:

- Generation of Secure Binary (SB) bootable images
- Security features configuration (CMPA, CFPA, Trustzone, secure bootloader, debug authentication, etc.)
- Generation and management of cryptographic keys and certificates
- Trust provisioning and secure programming through MCU Bootloader
- Debug authentication through J-Link, PEmicro and PyOCD debug probes

## Secure Provisioning SDK Block Diagram Block Diagram



View additional information for [Secure Provisioning SDK \(SPSDK\)](#).

**Note:** The information on this document is subject to change without notice.

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