Secure Provisioning SDK (SPSDK)
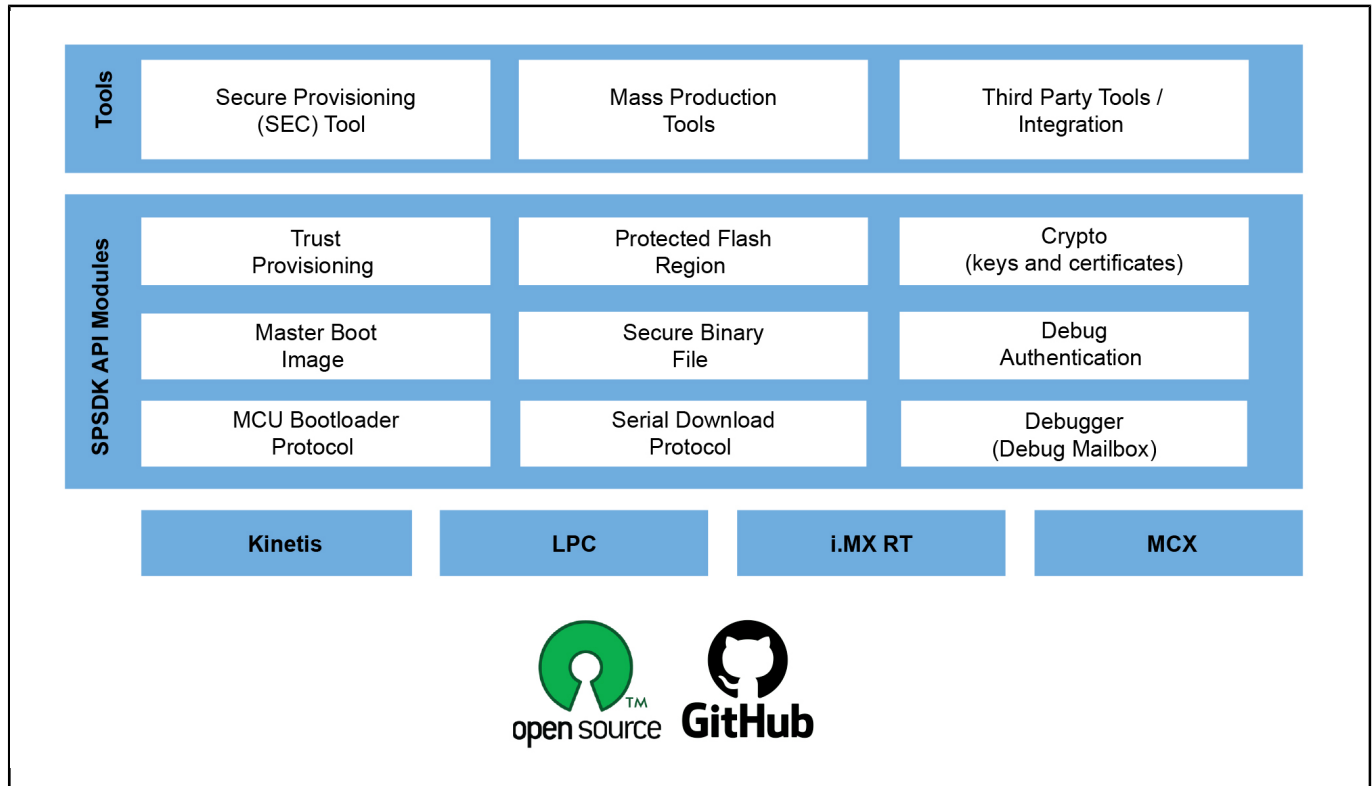
SPSDK

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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.