

i.MX RT1050/RT1060

SESIP Security Target

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Evaluation document
COMPANY CONFIDENTIAL

Document information

Information	Content
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Abstract	Evaluation of the i.MX RT1050 and i.MX RT1060 developed and provided by NXP Semiconductors, BL MICR, according to SESIP Assurance Level 1 (SESIP1)



Revision History

Rev.	Date	Description
1.0	2018-02-19	First version with new template
1.1	2018-02-25	Update after evaluator comments

1 Introduction

This Security Target describes the i.MX RT1050/RT1060 platform that is evaluated according to the Security Evaluation Scheme for IoT Platforms (SESIP) [1]. The security properties are described in [Section 3](#) of this document, and will be upheld by the platform when the objectives for the environment (described in [Section 2](#)) are fulfilled by the platform consumer.

1.1 ST Reference

i.MX RT1050/RT1060, SESIP Security Target, Revision 1.1, NXP Semiconductors, 25 February 2019.

1.2 TOE Reference

Table 1. TOE Reference

Reference	Value
TOE Name	i.MX RT1050/RT1060
TOE Version	Rev. A and Rev. B
TOE Identification	i.MX RT1050/RT1060
TOE Type	Microcontroller platform for connected applications

Note: The difference between TOE Version Rev. A and Rev.B are optimizations only. There is no difference in security functionality between the revisions.

1.3 Guidance Documents

The following documents are included with the platform:

Table 2. Guidance Documents

Document	Reference
Reference Manual	<p>i.MX RT1050: i.MX RT1050 Processor Reference Manual, NXP Semiconductors, Document Number: IMXRT1050RM [2]</p> <p>i.MX RT1060: i.MX RT1060 Processor Reference Manual, NXP Semiconductors, Document Number: IMXRT1060RM [3]</p>
Security Reference Manual	<p>i.MX RT1050/RT1060: Security Reference Manual for the i.MX RT1050 Processor, NXP Semiconductors, Document Number: IMXRT1050SRM [4]</p>

1.4 TOE Overview and Description

The i.MX RT1050/RT1060 is a new processor family featuring NXP's advanced implementation of the high performance Arm® Cortex®-M7 core running at 600 MHz. It provides high CPU performance and best real-time response. This device provides various memory interfaces, including SDRAM, Raw NAND FLASH, NOR FLASH, SD/eMMC, Quad SPI (FlexSPI), and a wide range of other interfaces for connecting peripherals, such as WLAN, Bluetooth™, displays, camera sensors, and GPS. Same as other i.MX processors, this i.MX RT series also has rich audio and video features,

including LCD display, basic 2D graphics, camera interface, SPDIF and I2S audio interface.

The i.MX RT1060 family doubles the on-chip SRAM to 1MB while keeping pin-to-pin compatibility with i.MX RT1050. Additional features make it ideal for real-time applications such as High-Speed GPIO, CAN-FD, and synchronous parallel NAND/NOR/PSRAM controller.

The functional block diagram is shown in the figure below. This diagram provides a view of the chip's major functional components and core complexes.

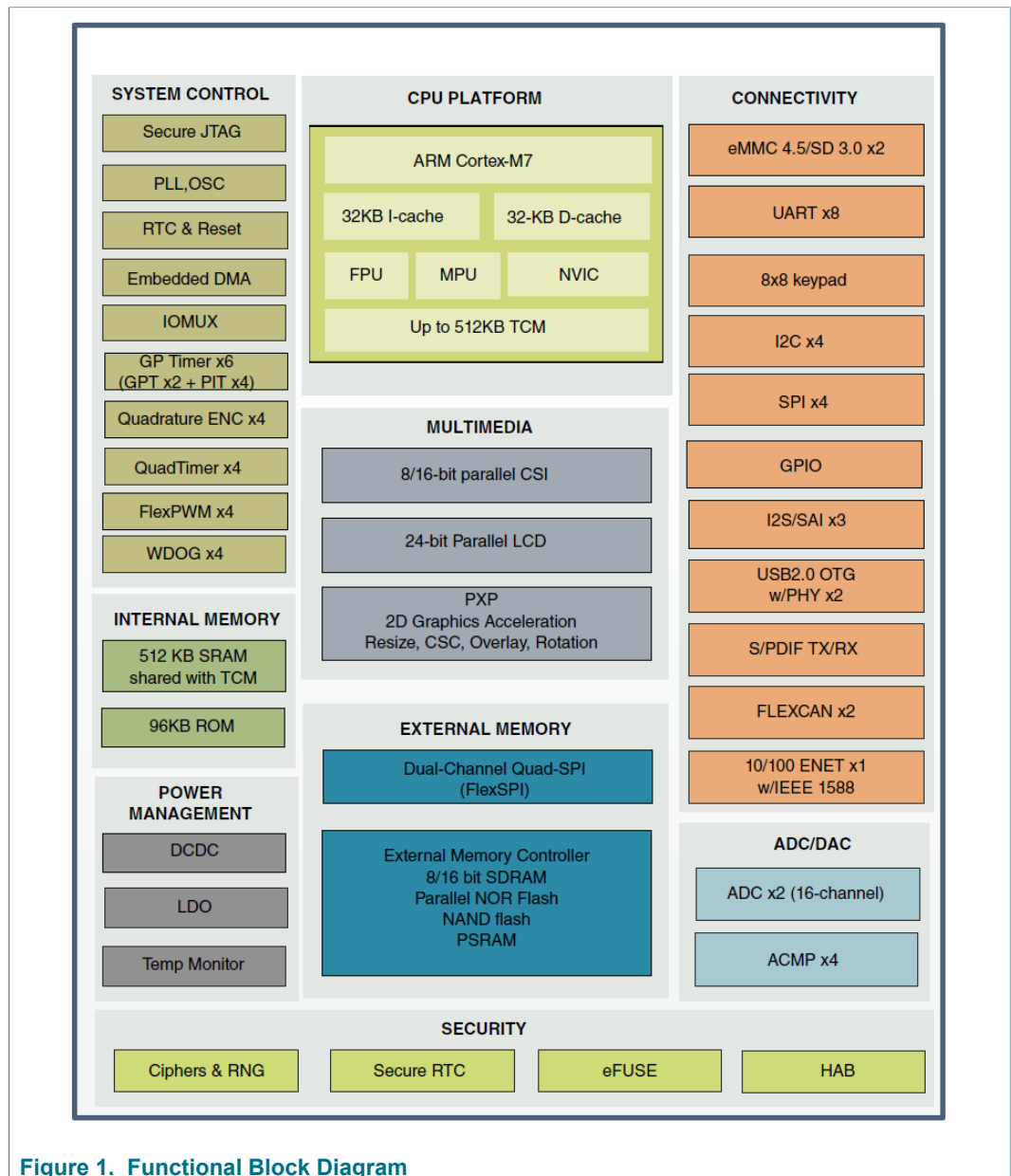


Figure 1. Functional Block Diagram

All products built using this chip share a general need for security, though the specific security requirements vary greatly from product to product. For example, portable consumer devices need to protect a different type and cost of assets than the automotive or industrial platforms. Each market must be protected against different kinds of attacks.

The product designers need an appropriate set of counter measures to meet the security needs of their specific product.

To help the product designers to meet the requirements of each market, the chip incorporates a range of security features. Most of these features provide protection against specific kinds of attack, and can be configured for different levels according to the required degree of protection. These features are designed to work together or independently. They can be also integrated with the appropriate software to create defensive layers. In addition, the chip includes a general-purpose accelerator that enhances the performance of selected industry-standard cryptographic algorithms.

The security features of the platform include:

- Secure High-Assurance Boot
 - Security library embedded in the tamper-proof on-chip ROM
 - Authenticated boot, which protects against unauthorized software
 - Verification of the code signature during boot
 - RSA-1024/2048/3072/4096 keys anchored to the OTP fingerprint (SHA-256)
 - Encrypted boot which protects the software confidentiality
 - Runs every time the chip is reset
 - Image version control/image revocation (on-chip OTP-based)
- Secure storage
 - Off-chip storage protection using AES-128 and the chip's unique hardware-only key
- Hardware cryptographic accelerators
 - Symmetric: AES-128
 - Hash message digest: SHA-1, SHA-256
- True and pseudorandom number generator
- On-chip secure real-time clock with autonomous power domain
- Secure debugging
 - Configurable protection against unauthorized JTAG manipulation
 - Three security levels + a complete JTAG disable
 - Support for JTAG port secure reopening for field return debugging
- Universal unique ID
- Electrical fuses (OTP Memory)
- Hardware bus encryption
 - AES-128 encryption, supporting ECB and CTR modes
 - Non-secured access filtering

The platform is intended to be used by an integrator that deploys it into a connected solution together with its own operating systems and user applications.

The main security features of the platform are listed in [Section 3](#) of this document.

1.4.1 Physical Scope of the TOE

The physical scope is the i.MX RT1050/RT1060 microcontroller as identified in [Table 1](#) and whose functional blocks are identified in [Figure 1](#). It includes the dedicated firmware located in the on-chip boot ROM.

1.4.2 Logical Scope of the TOE

The logical scope includes the hardware interfaces that operating systems or applications would make use of. The logical scope of the firmware is limited to the HAB functionality stored in the on-chip boot ROM.

Any OS or application software stored on the platform is not in scope of this evaluation.

1.4.3 Required non-TOE Hardware/Software/Firmware

No additional non-TOE hardware, software or firmware is required for the correct functioning of the security claims described in this document.

2 Security Objectives for the Operational Environment

In order for the platform to fulfill its security requirements, the operational environment (technical or procedural) must fulfil the following objectives:

- The OS or application developer shall verify the correct version of all platform components it depends on as described in the [Reference Manual](#)
- The OS or application developer shall enable the HAB feature as described in the [Security Reference Manual](#).
- To allow execution of unknown code while maintaining the protection of platform security features as declared in [Section 3](#), the OS or application developer shall configure restrictive memory boundaries via the MPU as described in the [Security Reference Manual](#).

Please refer to [Section 1.3](#) for references to the guidance documentation mentioned above.

3 Security Requirements

3.1 Security Functional Requirements

The Security Functional Requirements (SFRs) are listed below, together with a short rationale explaining why the platform meets the requirement (*in italics*).

3.1.1 Identification and Attestation of Platforms and Applications

3.1.1.1 Identification of Platform Type

The platform provides a unique identification of the platform type, including all its parts and their versions.

The chip includes values in the fuses that uniquely identify the platform type, including a part of the Lot identifier and a Silicon Revision Number as described in the [Reference Manual](#) and [Security Reference Manual](#).

The fuses are written as part of the production process, and the production testing procedures verify the value has been written correctly.

3.1.1.2 Identification of Individual Platform

The platform provides a unique identification of that specific instantiation of the platform, including all its parts and their versions.

The chip includes in fuses a 64-bit unique identifier. It also includes values in the fuses that uniquely identify a lot, wafer and x-y coordinates that uniquely identify a given die.

The fuses are written as part of the production process, and the production testing procedures verify the value has been written correctly.

3.1.1.3 Secure Initialization of Platform

The platform ensures its authenticity and integrity during the platform initialization. If the platform authenticity or integrity cannot be ensured, the platform will go to a secure state.

The chip includes NXP's High Assurance Boot (HAB). When the device boots, the execution starts in the device's physical ROM by the secure boot mechanism that verifies the authenticity of the firmware before executing it. The signature uses RSASSA-PKCS1-v1_5 signature [8] of a SHA256 digest with 1024-bit to 4096-bit key size.

The public key used for signing the firmware is itself authenticated by a chain of signatures in a certificate, using one of four root keys. A fingerprint of these root keys is stored in the device's manufacturer-programmable on-chip fuses, and used to validate the root key.

In case of failure, depending on lifecycle and configuration, the chip may first look for a recovery boot image, before waiting on a Serial Downloader (e.g., on USB) for an authenticated image.

The HAB feature is tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.2 Product Lifecycle: Factory Reset / Install / Update / Decommission

3.1.2.1 ~~Secure Update of Platform~~

~~The platform can be updated to a newer version in the field such that the integrity, authenticity and confidentiality of the platform is maintained.~~

The platform does not support the update or patching of firmware located in the on-chip ROM. It does offer a feature for customers to implement secure update mechanisms of their own code. According to [1] the absence of this functionality for the platform must be explained as part of ALC_FLR.2. Please see [Section 3.2.1](#) for this explanation.

3.1.2.2 Decommission of Platform

The platform can be decommissioned.

The chip includes a Field Return mode, in which access to the device keys is permanently disabled, including access from the DCP module. In that mode, debugging is possible, as well as execution of any firmware.

The switch to Field Return mode can only be obtained by loading a chip-specific boot image that includes the chip's unique ID, verifying its authenticity, and by running it. Such a boot image can only be authenticated by using one of the keys allowed to sign firmware images.

The Field Return mode is tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.3 Extra Attacker Resistance

3.1.3.1 Software Attacker Resistance: Isolation of Platform

The platform provides isolation between the application and itself, such that an attacker able to run code as an application on the platform cannot compromise the other functional requirements.

The platform provides isolation between different kinds of applications, through the following mechanisms:

- *Memory Protection Unit (MPU). The platform includes a MPU that can restrict the read and write accesses to memory regions (including regions mapped to peripherals), and therefore restrict the access of some regions to code running in Handler and/or Privileged mode.*
- *Bus Encryption Engine (BEE). This mechanism can be used to encrypt different memory regions with different keys that cannot be disclosed to applications, therefore protecting the confidentiality of the data stored in these regions from unauthorized part of the application.*

The MPU and BEE are tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.4 Cryptographic Functionality

3.1.4.1 Cryptographic Operation

The platform provides the application with *encryption and decryption* functionality as specified in *FIPS 197 (AES)* [6] for key length 128 and modes *ECB and CBC*.

The platform provides the application with *hashing* functionality as specified in *FIPS 180-4* [5] for digests of 160 bits (*SHA-1*).

The platform provides the application with *hashing* functionality as specified in *FIPS 180-4* [5] for digests of 256 bits (*SHA-256*).

The support for cryptographic operations is described in the [Security Reference Manual](#).

The Data Co-Processor (DCP) provides hardware acceleration for the AES and SHA operations.

The Data Co-Processor (DCP) includes local storage in which keys can be stored and can then be used for cryptographic computations without ever being readable from the application. An OTP key is also stored in eFuses; it cannot be read by the application and it is copied directly into the DCP during its initialization. This key can be used as a Key Encryption Key (KEK) to protect other cryptographic keys or sensitive credentials.

The cryptographic functionalities are tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.4.2 Cryptographic Keystore

The platform provides the application with a way to store *cryptographic keys* such that not even the application can disclose this data. This data can be used for the cryptographic operations: *encryption, decryption, signature generation*.

The Data Co-Processor (DCP) includes local storage in which keys can be stored and can then be used for cryptographic computations without ever being readable from the application. An OTP key is also stored in eFuses; it cannot be read by the application and it is copied directly into the DCP during its initialization. This key can be used as a Key Encryption Key (KEK) to protect other cryptographic keys or sensitive credentials.

A similar mechanism is available in the Bus Encryption Engine (BEE), where the same OTP Key can be used. The BEE can be used to encrypt different memory regions with different keys that cannot be disclosed to applications, therefore protecting the confidentiality of the data stored in these regions from unauthorized part of the application.

The DCP is tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.4.3 Cryptographic Random Number Generation

The platform provides the application with a way based on *physical noise* to generate random numbers to as specified in *SP800-90B* [7].

The platform includes a Standalone True Random Number Generator (SA-TRNG) module that generates a 512-bit entropy as needed by an entropy-consuming module or by other post-processing functions.

The RNG functionality is tested against a defined stochastic model by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.1.5 Compliance Functionality

3.1.5.1 Secure Encrypted Storage

The platform ensures that all data stored by the application, with the exception of *data that the user doesn't explicitly encrypt*, is encrypted as specified in FIPS 197 (AES) [6] with a platform instance unique key of keylength 128 in ECB or CTR modes.

An OTP key is stored in eFuses and used in the DCP; it cannot be read by the application and it is copied directly into the DCP during its initialization. This key can be used as a Key Encryption Key (KEK) to protect other cryptographic keys or sensitive credentials.

A similar mechanism is available in the Bus Encryption Engine (BEE), where the same OTP Key can be used. The BEE can be used to encrypt different memory regions with different keys that cannot be disclosed to applications, therefore protecting the confidentiality of the data stored in these regions from unauthorized part of the application.

The secure storage functionalities are tested thoroughly by means of simulation tests during the design phase and by validation campaigns before chip release. Each die undergoes production tests to ensure its correct functioning on each final product.

3.2 Security Assurance Requirements

The claimed assurance requirements package is: **SESIP1** as defined in [1]. The assurance requirements are as follows:

Table 3. Security Assurance Requirements for SESIP1

Assurance Class	Assurance Families
ASE: Security Target Evaluation	ASE_INT.1 ST Introduction ASE_OBJ.1 Security requirements for the operational environment ASE_REQ.3 Listed security requirements ASE_TSS.1 TOE summary specification
ALC: Life-cycle Support	ALC_FLR.2 Flaw reporting procedures

3.2.1 Flaw Reporting Procedures (ALC_FLR.2)

In accordance with the requirement for flaw reporting procedures (ALC_FLR.2), the developer has defined the following procedure:

NXP has defined a Product Security Incident Response Process (PSIRP), implemented by a dedicated team (PSIRT). This process provides a publicly available interface (<https://nxp.com/psirt>), and includes 4 steps:

- **Reporting.** The process begins when the PSIRT becomes aware of a potential security vulnerability in an NXP product. The reporter receives an acknowledgment and updates throughout the handling process.

- **Evaluation.** The PSIRT confirms the potential vulnerability, assesses the risk, determines the impact and assigns a processing priority. If the vulnerability is confirmed, the priority determines how the issue is handled throughout the remaining steps in the process.
- **Solution.** Working with PSIRT, the product team develops a solution that mitigates the reported security vulnerability. Solutions will take different forms based on the vulnerability. Because of the nature of NXP products – mostly silicon products where the firmware is in ROM -, very often the solution can only be provided in a next version of the chips and the short-term solution will consist of recommending security measures to be applied in systems using the NXP product.
- **Communication.** As said above, because of the nature of the NXP products, the solution to systems using the affected products often needs to be found in additional countermeasures in those systems. The communication on the vulnerability and solutions will in most cases be done directly towards the affected customers. For previously unknown or unreported issues, NXP will acknowledge the reporter of the issues (unless the reporter requests otherwise).

The firmware located in the on-chip ROM of the platform cannot be updated or patched. However, the platform's High Assurance Boot (HAB) feature is able to verify the authenticity of customer code during the initial boot and outside of the boot sequence, providing an appropriate mechanism for supporting the update of this code. The update mechanism itself has to be provided by the customer, most likely at the operating system level and is not in scope of this evaluation.

4 Mapping and Sufficiency Rationales

4.1 ITP1 Sufficiency

Assurance Class	Assurance Family	Covered By	Rationale
ASE: Security Target Evaluation	ASE_INT.1 ST Introduction	Section 1	The ST reference is in Section 1.1 , the TOE reference in Section 1.2 , the TOE overview and description in Section 1.4 .
	ASE_OBJ.1 Security requirements for the operational environment	Section 2	The objectives for the operational environment in Section 2 refer to the guidance documents.
	ASE_REQ.3 Listed security requirements	Section 3	All SFRs in this ST are taken from [1] . SFR "Identification of Platform Type" is included. SFR "Secure Update of Platform" is mentioned but refers to ALC_FLR.2.
	ASE_TSS.1 TOE Summary Specification	Section 3	All SFRs are listed per definition, and for each SFR the implementation and verification is defined in the SFR.
ALC: Life-cycle Support	ALC_FLR.2 Flaw reporting procedures	Section 3.2.1	The flaw reporting and remediation procedure is described.

5 Bibliography

5.1 Evaluation Documents

- [1] Security Evaluation Scheme for IoT Platforms, Version 1.1.

5.2 Developer Documents

- [2] i.MX RT1050 Processor Reference Manual, NXP Semiconductors, Document Number: IMXRT1050RM.
- [3] i.MX RT1060 Processor Reference Manual, NXP Semiconductors, Document Number: IMXRT1060RM.
- [4] Security Reference Manual for the i.MX RT1050 Processor, NXP Semiconductors, Document Number: IMXRT1050SRM.

5.3 Standards

- [5] FIPS PUB 180-4: Secure Hash Standard (SHS), Federal Information Processing Standards Publication, Information Technology Laboratory, National Institute of Standards and Technology, August 2015.
- [6] FIPS PUB 197: Advanced Encryption Standard (AES), Federal Information Processing Standards Publication 197, US Department of Commerce/National Institute of Standards and Technology, 26 November 2001.
- [7] NIST SP 800-90B, Recommendation for the Entropy Sources Used for Random Bit Generation, National Institute of Standards and Technology, January 2018.
- [8] PKCS #1: RSA Cryptography Standard, Version 2.2, October 27, 2012, RSA Laboratories

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