



EMVCo Product Approval (IC)

Please accept this document as confirmation of the EMVCo Security Evaluation process

The ICCN number must be mentioned to all vendors or when shipping the product.

The use of the ICCN number is limited to the product as detailed below.

Please also reference the ICCN number in any communication with EMVCo.

ICCN: ICCN0259

Date ICCN issued: 22 Nov 2018

ICCN Expiry Date: 22 Nov 2021

Company: NXP Semiconductors Germany GmbH

Master Component: N7121

Hardware Revision: B1-I

Child Lot 1: -

Child Lot 2: -

Child Lot 3: -

Child Lot 4: -

Child Lot 5: -

Manufacturing site(s): GlobalFoundries, Singapore

Firmware name / version: Firmware v9.2.3, System Mode OS v13.2.3, Flashloader OS v1.2.5

Crypto. library name / version: v0.7.6

Other libraries name / version: Flashloader lib. v3.6.0, Comm. lib. v6.0.0, CRC lib. v1.1.8, Mem. lib. v1.2.3

Bootloader name / version: -

Security Laboratory: Brightsight (until 2019), TÜVIT

User Guidance:

- NXP Secure Smart Card Controller N7121, Information on Guidance and Operation, v3.2, 28 May 2019
- N7121 Crypto Library, Information on Guidance and Operation, v3.1, 7 Feb 2020
- NXP Secure Smart Card Controller N7121, Overview, Product Data Sheet, v3.3, 15 Apr 2020
- SmartMX3 N7121 Instruction Set Manual, v3.0, 23 Nov 2018
- SmartMX3 N7121 Chip Health Mode, v3.1, 30 Jun 2020
- SmartMX3 N7121 Peripheral Configuration and Use, v3.2, 18 Feb 2020
- SmartMX3 N7121 Flashloader OS, v3.0, 1 Nov 2018
- SmartMX3 N7121 MMU configuration & FW interface, v3.6, 19 Oct 2020
- SmartMX3 N7121 Shared OS libraries, v3.2, 30 Oct 2019
- SmartMX3 N7121 NXP System Mode OS, v3.5, 19 Oct 2020
- N7121 Crypto Library, Symmetric Cipher Library, v1.4, 19 Sep 2018
- N7121 Crypto Library, SHA Library, v1.1 & Hash Library, v1.2, 20 Mar 2018
- N7121 Crypto Library, RSA Library, v1.4, 28 Mar 2019 & RSA Key Generation Library, v1.3, 11 Oct 2018
- N7121 Crypto Library, KeyStoreMgr Library, v1.1, 19 Sep 2018
- N7121 Crypto Library, ECC over GF(p) Library, v2.1, 28 Mar 2019
- N7121 Crypto Library, RNG Library, v1.2, 9 Nov 2018
- N7121 Crypto Library, Utils Library, v1.1, 2 Feb 2018 & UtilsAsym Library, v1.3, 13 Apr 2018
- SmartMX3 N7121 I2C Device Identification, v1.0, 30 Nov 2018

Conditions of Certification: Guidance document(s) must be followed.

Disclaimer: Although the secure implementation of any security mechanisms and product functionalities may be evaluated, the EMVCo Security Evaluation Process does not validate the cryptographic algorithms, methods and protocols themselves nor the absence of flaws or defects in the specifications used for product development.

The EMVCo Security Evaluation Process is intended to provide valuable and practical information relating to the general security performance characteristics and the suitability of use for smart card related products and IC chip-based tokens. The EMVCo Security Evaluation Process is designed to ensure a robust security foundation for these products at the product family and component level. The EMVCo Security Evaluation Process is an evolving process in relation to new attack techniques and technology. EMVCo therefore reserves the right to perform new/random security testing throughout the lifetime of the card which may impact certification. The full terms and conditions upon which EMVCo Compliance Certificates are issued by EMVCo are contained in the EMVCo Security Evaluation Process Document and the EMVCo Security Evaluation Certification Contract.