ST25TV-eSEAL
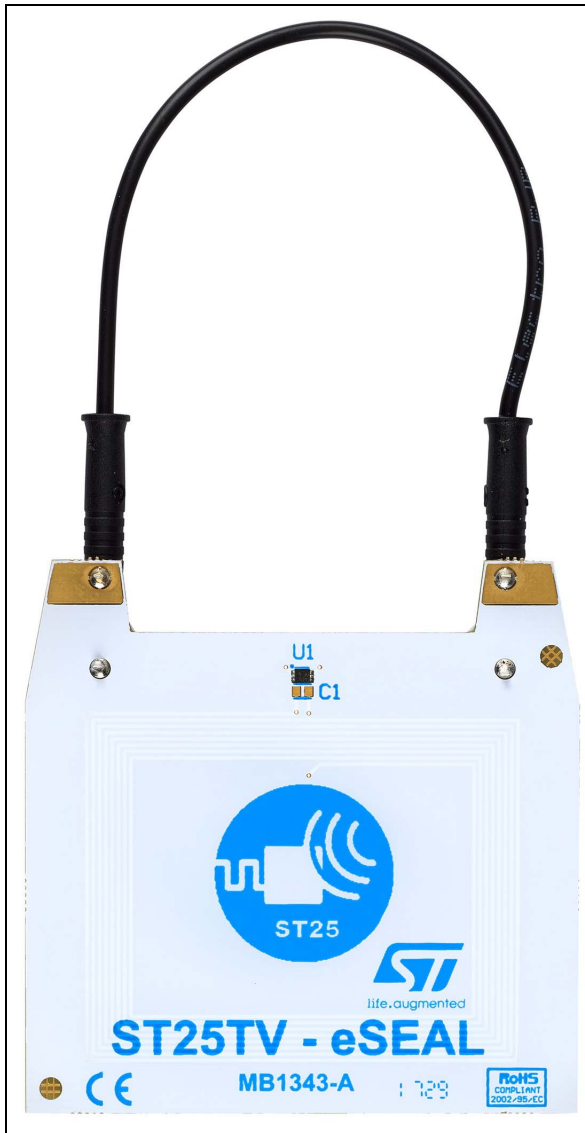
Discovery board for the ST25TV02K NFC Forum Type 5 tag IC

Features

- Ready-to-use printed circuit board including
  - ST25TV02K NFC/RFID tag in UFDFPN5 ECOPACK2® package
  - Class 3, single layer inductive antenna etched on the PCB
  - Tamper detect capability
  - TruST25™ digital signature
- Contactless interface
  - RF link based on ISO/IEC 15693
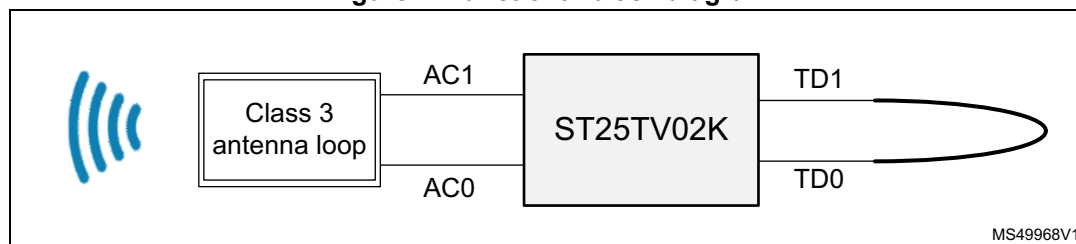 - NFC Forum Type 5
  - Internal 23.5 pF tuning capacitance

Description

The ST25TV-eSEAL is a ready-to-use demonstration board allowing the user to assess the features and capabilities of the ST25TV series NFC tags.

To demonstrate the tamper detect function, the ST25TV-eSEAL can be used in conjunction with the DEMO-CR95HF-A demonstration board, or with an Android™ smart-phone.

1 Block diagram

Figure 1. Functional block diagram

2   Formal notices required by the U.S. Federal Communications Commission ("FCC")

2.1   FCC Compliance Statement

2.1.1   Part 15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.1.2   Part 15.105

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2.1.3   Part 15.21

Any changes or modifications to this equipment not expressly approved by STMicroelectronics may cause harmful interference and void the user's authority to operate this equipment.

3 Formal notices required by the Industry Canada ("IC")

3.1 Compliance Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions : (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

3.2 Declaration de Conformité

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

4   Revision history

Table 1. Document revision history

Date	Revision	Changes
06-June-2018	1	Initial release.

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