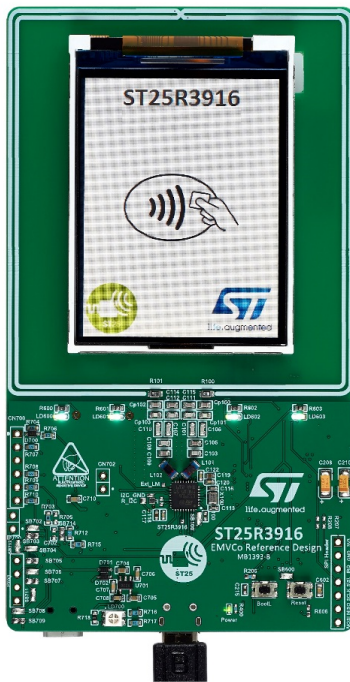


## EMVCo™ reference design for the ST25R3916 high performance NFC universal device



Product status link

[ST25R3916-EMVCO](#)

### Features

- Based on the ST25R3916 high performance NFC universal device and EMVCo reader in QFN32, 5 mm x 5 mm package
- ISO 14443A, ISO 14443B (more protocols supported by ST25R3916-DISCO kit)
- Dynamic power output (DPO) and active wave shaping (AWS)
- User selectable and automatic gain control
- 65 mm x 74 mm, two turns antenna etched on the PCB
- STM32L476 32-bit microcontroller with 1 Mbyte embedded Flash memory, with integrated ST-LINK/V2 for programming and debugging
- Micro-USB connector for communication with the host PC and board supply
- 2.4 inch TFT connected in 16-bit parallel mode, and S-Touch controller
- Comprehensive device test environment (DTE) for controlling the EMVCo Level 1 firmware
- EMVCo 3.0 L1 compliant

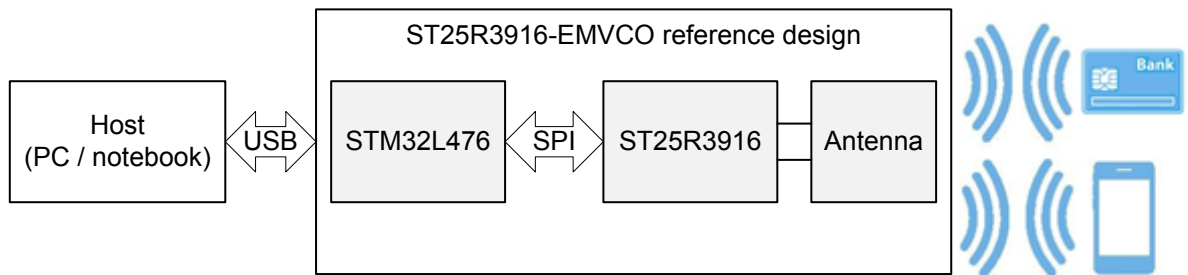
## 1 Description

The ST25R3916-EMVCO kit is a reference design representing the contactless part of a payment terminal, including the example code for the EMVCo level 1 stack.

The board is equipped with a 2.4 inch display, surrounded by a two turns RF antenna, thus providing a typical use case in contactless payments.

The STM32L476 (packaged in a 100-pin LQFP) serves as host controller for the ST25R3916 and the connected peripherals.

Figure 1. Functional block diagram



## Revision history

**Table 1. Document revision history**

Date	Version	Changes
04-Apr-2019	1	Initial release.
17-Oct-2019	2	Updated <a href="#">Section Features</a> and <a href="#">Section 1 Description</a> .

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