ST25DV-PWM series
Dynamic NFC/RFID tag ICs
ISO15693 NFC Forum type 5

ISO/IEC 15693 NFC Forum type 5 Dynamic Tag ICs with Pulse Width Modulation (PWM) outputs controlled by contactless interface

ST25DV02K-W product belongs to ST25 family. These dynamic NFC/RFID tag ICs offer a 13.56MHz long-range interface and PWM outputs. It is compliant with ISO/IEC 15693 and NFC Forum Tag type 5 standards and embeds an EEPROM memory of 2 Kbits, which can be divided for use-case flexibility. The PWM outputs can be programmed independently and securely, allowing a large field of application. The IC provides live update of PWM parameters by contactless interface, extending the user experience.

**KEY FEATURES**
- Industry standard interfaces:
  - ISO15693 NFC Forum Type V
  - 13.56 MHz carrier frequency
  - 2-Kbit EEPROM configurable in 1 or 2 areas, each area is protected by password command:
    - 64-bit password 1 area
    - 2x 32-bit password 2 areas
  - Pulse width Modulation outputs
    - Up to 2x independent outputs
    - Up to 15-bit resolution
    - 62.5ns resolution step
  - Power Supply: 1.8V to 5.5V
  - -40°C to 105°C (PWM) temperature range
  - TruST25 Digital Signature

**KEY BENEFITS**
- 2 in 1 chip, putting NFC connectivity with PWM functionality
- Cost optimized solution to address low end market
- Significant BOM reduction as no MCU is to drive the system

**KEY APPLICATIONS**
- NFC Analog Control
- Industrial application
- Lighting LED Driver
- Motor Control

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TECHNICAL SUPPORT
The ST25DV02K-W tags family offers a simple and cost-effective implementation. ST can provide supporting material for integrating the antenna into your application: application notes, reference designs, antenna computation tools, e-presentations and e-learning.
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