

# 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



## DEVICE SUMMARY

Part number	RF interface	PWM outputs	Memory size	Data protection	Supply (V)	Package
ST25DV02K-W1	ISO 15693 NFC Forum type V	1	2-Kbit	Up to 64-bit password	1.8 to 5.5	S08, TSSOP8
ST25DV02K-W2	ISO 15693 NFC Forum type V	2	2-Kbit	Up to 64-bit password	1.8 to 5.5	S08, TSSOP8

## ECO-SYSTEM



## 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. Visit [www.st.com/st25d](http://www.st.com/st25d)

