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# ST25DV-PWM SERIES

## Dynamic NFC/RFID tag ICs
## NFC Forum type 5 certified


### ISO15693 NFC Forum type 5 certified 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 usecase 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:1.8 V to 5.5 V
- -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

- Lighting LED Driver
- Motor Control
- NFC Analog Control
- Power supply unit
- Industrial application

**www.st.com/st25dv-pwm**

## Device Summary

| Part number | RF interface | PWM outputs | Memory size | Data protection | Supply (V) | Package |
|---|---|---|---|---|---|---|
| **ST25DV02K-W1** | ISO 15693<br>NFC Forum Type 5 | 1 | 2 Kbits | Up to 64 bits password | 1.8 to 5.5 | SO8, TSSOP8 |
| **ST25DV02K-W2** | ISO 15693<br>NFC Forum Type 5 | 2 | 2 Kbits | Up to 64 bits password | 1.8 to 5.5 | SO8, TSSOP8 |

## Reference design kit


## Eco-System

ST25

Support eco-system

e2e community

PC SW tools

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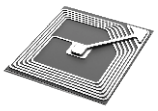
ST25 NFC Tap app

Documentation



Antenna Design Suite

## 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/st25dv-pwm**

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