ST25DV personal health device (PHD) demonstration firmware

ST25DV64KC Discovery kit and mobile application running the PHDC demonstration

Product status link
STSW-ST25DV012

Features

- ISO/IEEE 11073-20601 personal health device communication (PHDC) exchange between agent and manager
- ISO/IEEE 11073-10417 device specialization for glucometer agent (simulated)
- Transport implementation choice between
    - NFC Forum PHDC using NDEF exchanges
    - Fast transfer mode (FTM) of ST25DV64KC

Description

The STSW-ST25DV012 software package is based on the ISO/IEEE 11073 personal health device (PHD) standards, a set of standards that address the interoperability of medical devices and associated data.

The STSW-ST25DV012 ST25DV PHDC demonstration shows the use of a dual-interface ST25DV Dynamic NFC tag in enabling the communication between a glucometer agent and a smartphone manager using the ISO/IEEE 11073-20601 PHDC standard.

Firmware running on an ST25DV Discovery kit simulates the glucometer agent. The manager can be an Android™ or iOS™ application.

STSW-ST25DV012 is demonstrated on the ST25DV64KC ST25DV Dynamic NFC tag. The STSW-ST25DV012 software package contains all the source files to compile the firmware for the related ST25DV64KC-DISCO Discovery kit.

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For further information contact your local STMicroelectronics sales office.

www.st.com

The following STMicroelectronics products contribute to the ST25DV PHDC demonstration:

- Software:
    – STSW-ST25DV012: STM32L476VG firmware for the ST25DV PHDC demonstration
    – STSW-ST25IOS012: iOS™ application for ST25DV PHDC demonstration
- Hardware:
    – ST25DV64KC-DISCO: ST25 Discovery kit with ST25DV64KC antenna

1 General information

STSW-ST25DV012 includes drivers running on the STM32L476VG STM32 microcontroller, which embeds an Arm® Cortex®-M4 processor.

Note: *Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.*

1.1 Ordering information

STSW-ST25DV012 is available for free download from the *www.st.com* website.

1.2 License

STSW-ST25DV012 is delivered under the *Mix_MyLiberty* software license agreement SLA0052 and its Additional License Terms.

Revision history

Table 1. Document revision history

Date	Revision	Changes
11-May-2023	1	Initial release.

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