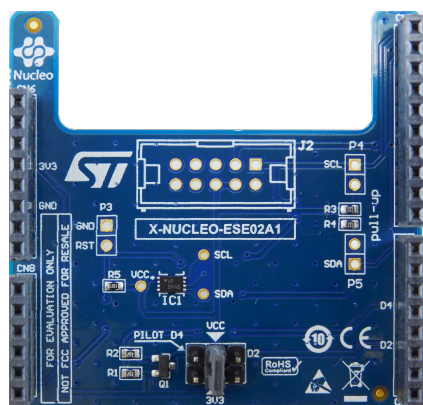


## Secure element expansion board based on STSAFE-L010



### Features

- On-board **STSAFE-L010** customized with a standard evaluation profile
- Arduino UNO R3 connector
- Free drivers, middleware and software samples compatible with the **STM32 ODE**
- RoHS and WEEE compliant

### Description

The **X-NUCLEO-ESE02A1** expansion board is based on the **STSAFE-L010** secure element. It can be used with any **STM32 Nucleo** development board.

The on-board **STSAFE-L010** is customized with a standard profile for evaluation and is compatible with the Arduino® UNO R3 connector.

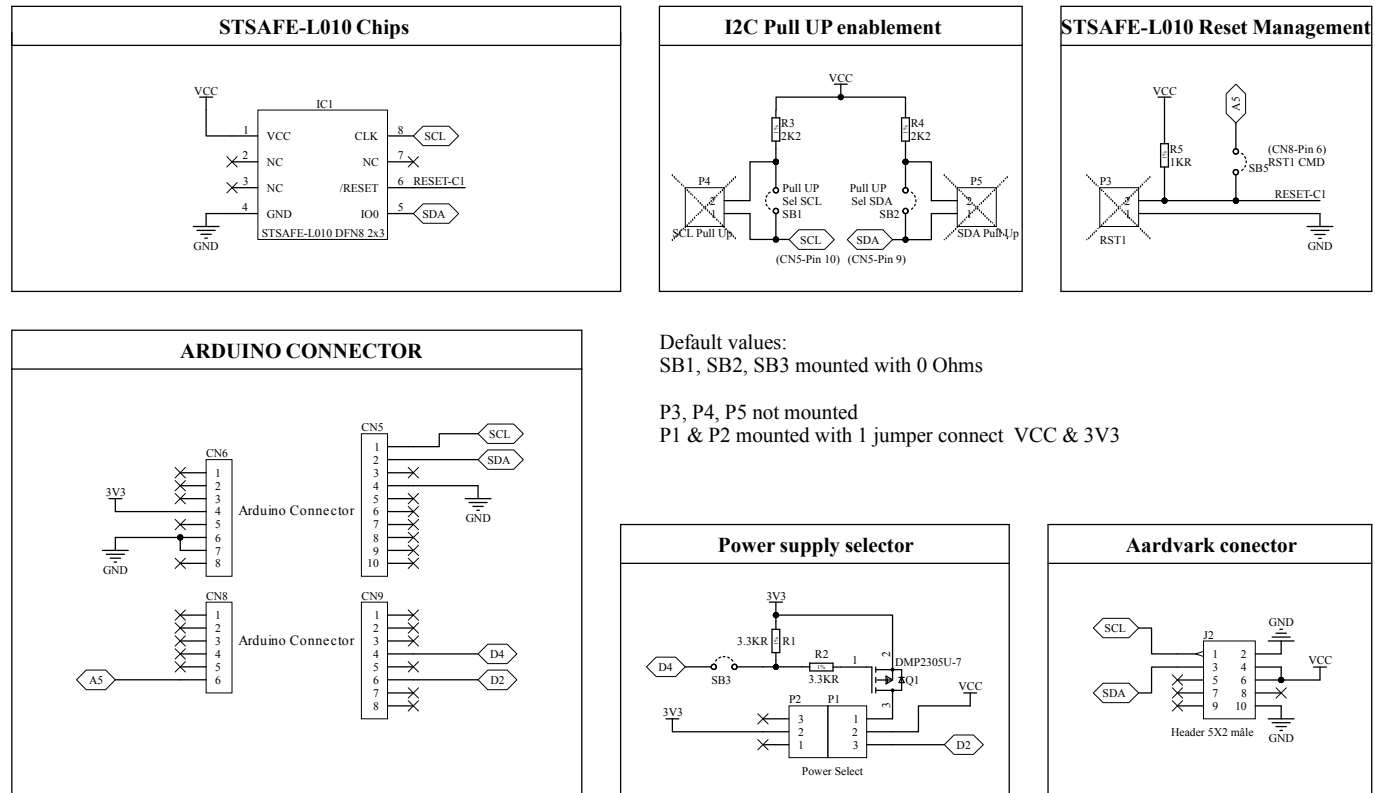
The **X-NUCLEO-ESE02A1** expansion board is used with free **STSELib** middleware providing sample code to demonstrate how to implement security applications.

### Product summary

Secure element expansion board based on STSAFE-L010	<b>X-NUCLEO-ESE02A1</b>
STMicroelectronics Secure Element Library (STSELib) middleware	STMicroelectronics Secure Element Library (STSELib)
Authentication and brand protection secure solution	<b>STSAFL010DFSPL01</b>
Applications	Authentication/ Embedded Security for Communications Equipment, Computers and Peripherals

# Schematic diagrams

Figure 1. X-NUCLEO-ESE02A1 circuit schematic



## 2 Board versions

**Table 1. X-NUCLEO-ESE02A1 versions**

Finished good	Schematic diagrams	Bill of materials
XN\$ESE02A1A <sup>(1)</sup>	XN\$ESE02A1A schematic diagrams	XN\$ESE02A1A bill of materials

1. This code identifies the X-NUCLEO-ESE02A1 evaluation board first version.

## Revision history

**Table 2. Document revision history**

Date	Revision	Changes
03-Sep-2025	1	Initial release.

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