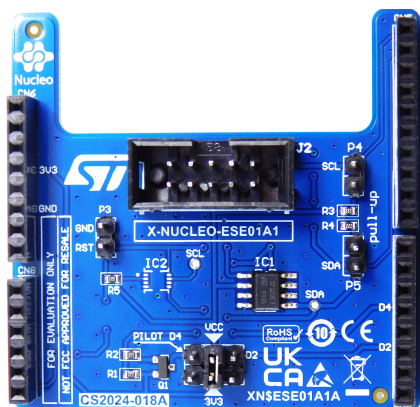


Secure element expansion board based on STSAFE-A120



Features

- On-board **STSAFE-A120** 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-ESE01A1** expansion board is based on the **STSAFE-A120** secure element. It can be used with any **STM32 Nucleo** development board.

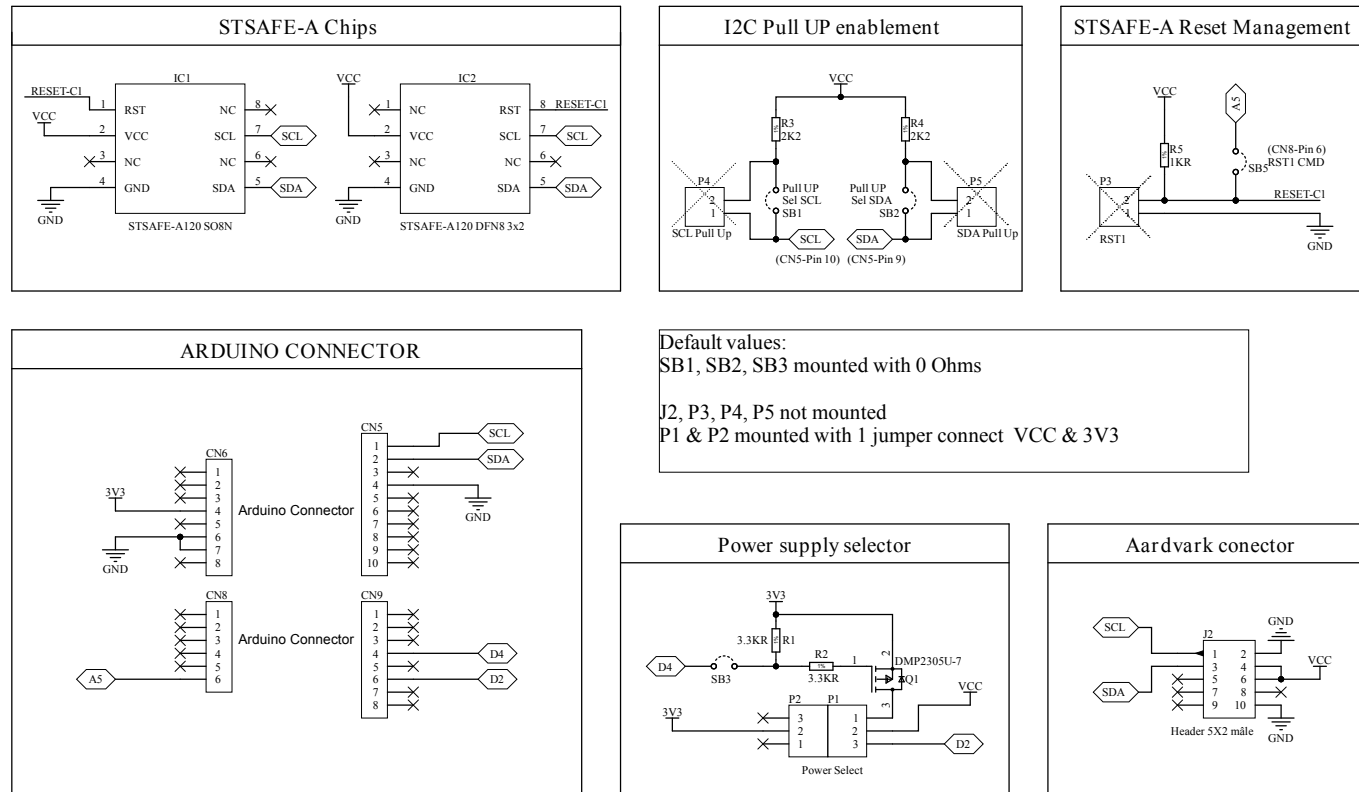
The on-board **STSAFE-A120** is customized with a standard profile for evaluation and is compatible with the Arduino® UNO R3 connector.

The **X-NUCLEO-ESE01A1** expansion board is used with free **X-CUBE-STSE01** software packages containing sample code to demonstrate how to implement security applications.

Product summary	
Secure element expansion board based on STSAFE-A120	X-NUCLEO-ESE01A1
Secure element software package with STSAFE-A110/STSAFE-A120 software expansion for STM32CUBE	X-CUBE-STSE01
Authentication and brand protection secure solution	STSAFA120S8SPL05/STSAFA120DFSPL05
Applications	Authentication/ StorageEmbedded Security for Communications Equipment, Computers and Peripherals

Schematic diagrams

Figure 1. X-NUCLEO-ESE01A1 circuit schematic



2 Board versions

Table 1. X-NUCLEO-ESE01A1 versions

Finished good	Schematic diagrams	Bill of materials
XN\$ESE01A1A ⁽¹⁾	XN\$ESE01A1A schematic diagrams	XN\$ESE01A1A bill of materials

1. This code identifies the X-NUCLEO-ESE01A1 evaluation board first version.

Revision history

Table 2. Document revision history

Date	Revision	Changes
23-Apr-2025	1	Initial release.

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