

Family certification information

FCC ID: YCP-32WL5MOCH01

IC: 8976A-32WL5MOCH01

Date: December 19th, 2023

Product name: STM32WL5MOCH

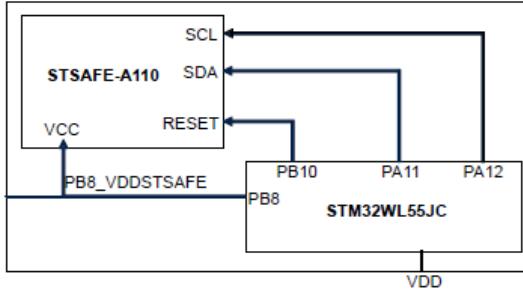
Model name: 32WL5MOCH6 and 32WL5MOCH6S

Brand name: ST

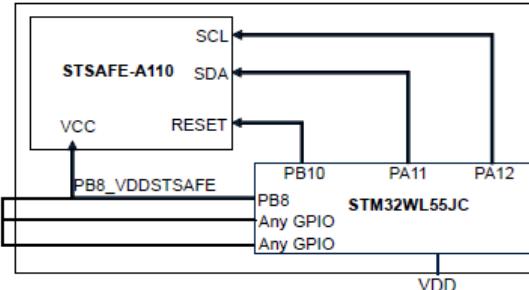
Model differences:

Ordering code	HVIN (Model name)	Material Variant
STM32WL5MOCH6	32WL5MOCH6	Without ST SAFE
STM32WL5MOCH6S	32WL5MOCH6S	Embedded ST SAFE

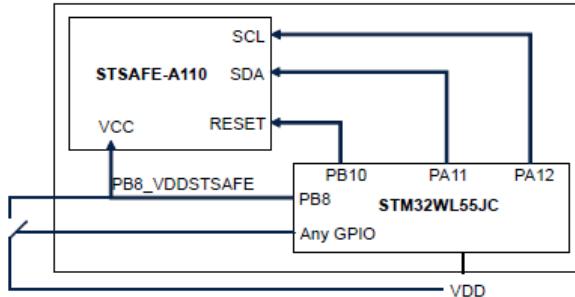
STSAFE supplied by PB8 (VDD guaranteed above 2.6V)



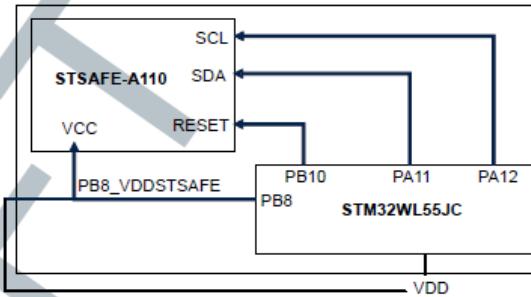
STSAFE supplied by PB8 and additional GPIOs



STSAFE supplied by on-board VDD, switchable



STSAFE supplied by on-board VDD



DT71819V1

STSAFE supply

STSAFE is integrated in STM32WL5MOCH6S. To optimize power consumption, in particular in low-power mode, the GPIO PB8 controls the STSAFE supply.

When STSAFE needs to be used, GPIO PB8 must then be set up in output configuration and forced to '1'. STSAFE can sink up to 21mA of power consumption. Using only PB8 as supply limits VDD to a voltage ranging from 2.6V to 3.6V. See the schema "STSAFE supplied by PB8 (VDD guaranteed above 2.6V)".

To support the full voltage range (1.8V to 3.6V), different options are available:

- Connecting several GPIOs to PB8 externally, and using them as supply. See the schema "STSAFE supplied by PB8 and additional GPIOs".
- Adding an external switch on VDD, controlled by a GPIO. See the schema "STSAFE supplied by on-board VDD, switchable".
- Connecting VDD to PB8, and configuring PB8 in Output forced to '1'. See the schema "STSAFE supplied by on-board VDD".



STMicroelectronics STSAFE-A110 Authentication IC

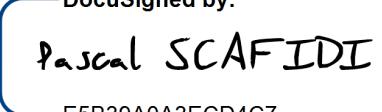
STMicroelectronics STSAFE-A110 Authentication IC is a highly secure solution that acts as a secure element providing authentication and secure data management services to a local or remote host. The STSAFE-A110 consists of a full turnkey solution with a secure operating system running on the latest generation of secure microcontrollers. The STSAFE-A110 supports a wide range of security features, including authentication, secure-channel key establishment, signature verification, and symmetric keys. The device comes with a host integration code tested with STM32 microcontrollers. It can also be ported to a wide range of general-purpose microcontrollers or microprocessors. This integration code includes a command wrapper and examples for the most common use cases.

The STMicroelectronics STSAFE-A110 Authentication IC is offered in 8-lead, ECOPACK-compliant SO8N and UDFPN packages.

STSAFE-A110 integrated in the STM32WL5MOCH6S module does not affect RF characteristics.

On behalf of: STMICROELECTRONICS (ROUSSET) SAS

Signature: DocuSigned by:


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