
Functional safety manuals to achieve IEC 61508 Safety Integrity Level (SIL2/3) certification with STM32

Data brief

Features

- STM32 safety manuals:
 - Detailed list of safety requirements (conditions of use) and examples to guide STM32 users to achieve Safety Integrity Level 2/3 according to IEC 61508 for the application-dependent layer (e.g. peripherals, watchdog).
 - Available for the STM32F0, STM32F1, STM32F2, STM32F3, STM32F4, STM32L0 and STM32L1 Series.

Description

On the basis of the ST Quality foundations, the STM32 product portfolio and the STM32 embedded safety features, the STM32-SafeSIL functional safety manuals help customers to quickly market safety critical STM32-based systems, targeting the industry standard IEC 61508 Safety Integrity Level (SIL2/3).

FMEDA delivery notice

STMicroelectronics updated processes involved in the release of the FMEDA computation sheet. Such document is described in section 4.1 of the STM32 Safety Manuals. Accordingly, the release of FMEDA computation sheet to end customers could be significantly delayed on specific MCU part numbers. While STMicroelectronics is attempting to minimize such delays, all customers needing to access the FMEDA computation sheet are asked to early contact their local STMicroelectronics sales representative, to receive information on expected delivery dates for specific MCU target part number.

Ordering information

STM32-SafeSIL is available for free download from the www.st.com website.

Revision history

Table 1. Document revision history

Date	Revision	Changes
15-Dec-2014	1	Initial release.
20-Jan-2015	2	Corrected typo error in fRSTL_STM32 software test libraries features.
10-Feb-2015	3	Removed bullet in description.
03-Nov-2015	4	Added delivery features.
01-Jun-2016	5	Updated Features and Description to take in account change in partnership.
29-Jun-2017	6	Added FMEDA delivery notice .

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