

Certificate



Functional
Safety

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No.: 968/FSP 1627.00/18

Product tested	Diagnostic software test libraries	Certificate holder	STMicroelectronics (Rousset) SAS 190 Avenue Célestin Coq Z.I de Rousset 13106 Rousset Cedex France
Type designation	X-CUBE-STL Diagnostic software test libraries for STM32 32-bit arm® Cortex® - M microcontrollers as listed in the current Revision List.		
Codes and standards	IEC 61508 Parts 1-7:2010 (in extracts)		
Intended application	The STMicroelectronics X-CUBE-STL Diagnostic software test libraries for STM32 32-bit arm® Cortex® - M microcontrollers comply with the requirements of systematic capability 3 (SC 3) acc. to IEC 61508. The claimed diagnostic coverages of medium (90%) for CPU and RAM tests and high (99%) for ROM test can be confirmed. As a result of this the software test libraries X-CUBE-STL can be used in safety related applications up to SIL 3.		
Specific requirements	The instructions of the Safety Manual and the User Guide of the respective microcontroller as well as the specific software test library shall be considered.		
Valid until 2023-06-06			

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1627.00/18 dated 2018-06-06.

This certificate is valid only for products which are identical with the product tested.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2018-06-06

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. Thomas Steffens

X-CUBE-STL-F0

File Name	Description	SHA256	Version	Report-No.:	Certification Status
STL_Lib.a	STM32F0 Series self-test library X-CUBE-STL-F0 (object code)	f1cb923bf7192b99 020eb50e5d2274c0 9e0547293a22a529 51ea95781b4b71cd	1.1.0	968/FSP 1627.00/18	<i>Valid</i>
STL_F0_SM_cx577463_5.0.pdf	STM32F0 Series self-test library safety manual	n/a	5.0	968/FSP 1627.00/18	<i>Valid</i>
STL_F0_UG_cx577445_3.0.pdf	STM32F0 Series self-test library user guide	n/a	3.0	968/FSP 1627.00/18	<i>Valid</i>

X-CUBE-STL-L4

File Name	Description	SHA256	Version	Report-No.:	Certification Status
STL_Lib.a	STM32L4 / STM32L4+ Series self-test library X-CUBE-STL-L4 (object code)	584e2d7c0bb652bf e6c697cec93a0e60 f3faac948dcc59d0 62299a38bad17fc0	1.0.0	968/FSP 1627.01/19	<i>Valid</i>
STL_L4_SM_cx609803_5.0.pdf	STM32L4 / STM32L4+ Series self-test library safety manual	n/a	5.0	968/FSP 1627.01/19	<i>Valid</i>
STL_L4_UG_cx609806_3.0.pdf	STM32L4 / STM32L4+ Series self-test library user guide	n/a	3.0	968/FSP 1627.01/19	<i>Valid</i>

X-CUBE-STL-F3

File Name	Description	SHA256	Version	Report-No.:	Certification Status
STL_Lib.a	STM32F3 Series self-test library X-CUBE-STL-F3 (object code)	f75b3bdd354eb782 dfe53418298733ed e358616139ed8f2e e9123ba490e51d2f	1.0.0	968/FSP 1627.01/19	Valid
STL_F3_SM_cx616768_3.0.pdf	STM32F3 Series self-test library safety manual	n/a	3.0	968/FSP 1627.01/19	Valid
STL_F3_UG_cx616704_2.0.pdf	STM32F3 Series self-test library user guide	n/a	2.0	968/FSP 1627.01/19	Valid

X-CUBE-STL-F4

File Name	Description	SHA256	Version	Report-No.:	Certification Status
STL_Lib.a	STM32F4 Series self-test library X-CUBE-STL-F4 (object code)	a79e64a09f9cb23b 83b83dcd3598ebed 16d6238d6b299a47 ee66f4248dd1852f	1.0.0	968/FSP 1627.01/19	Valid
STL_F4_SM_cx616769_4.0.pdf	STM32F4 Series self-test library safety manual	n/a	4.0	968/FSP 1627.01/19	Valid
STL_F4_UG_cx616705_2.0.pdf	STM32F4 Series self-test library user guide	n/a	2.0	968/FSP 1627.01/19	Valid

The content of this revision list has been agreed between manufacturer and certification body.

Revision

Date	Rev.	Beschreibung / Änderungen	Autor
2018-06-06	1.0	Initial creation, based on Report-No.: 968/FSP 1627.00/18	fba/A-FS
2019-04-05	2.0	Update, based on Report-No.: 968/FSP 1627.01/19	fba/A-FS