

Certificate



Functional
Safety

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ID 060000000

No.: 968/FSP 3116.00/26

Product tested	Self-diagnostic software designed for MCUs based on ARM Cortex-M85 core and Cortex-M33 core	Certificate holder	Renesas Electronics Corporation 3-2-24 Toyosu Koto-ku Tokyo 135-0061 Japan
Type designation	Dual-core RA8 Series Diagnostic Software as listed in the current Revision List		
Codes and standards	IEC 61508-1:2010 IEC 61508-2:2010	IEC 61508-3:2010	
Intended application	The Dual-core RA8 Series Diagnostic Software complies with the requirements of SC 3 acc. to IEC 61508 and can be used as a compliant software item in safety related applications up to SIL 3 acc. to IEC 61508. The claimed diagnostic coverages of 90% (medium) for the CPU test, DATA Area test and RAM test, and 99% (high) for the CODE Area test and ROM test can be confirmed.		
Specific requirements	The instructions of the Safety Manual and the User Guide of the respective MCU series shall be considered.		

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT FSP1 V3.0:2020 in its actual version, whose results are documented in Report No. 968/FSP 3116.00/26 dated 2026-02-03. This certificate is valid only for products, which are identical with the product tested. Issued by the certification body accredited by DAkkS according to DIN EN ISO/IEC 17065. The accreditation is only valid for the scope listed in the annex to the accreditation certificate D-ZE-11052-02-00.

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Köln, 2026-02-23

Certification Body Safety & Security for Automation & Grid

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