Certificate

Functional Safety

TÜVRheinland® CERTIFIED

www.tuv.com
ID 0600000000

No.: 968/FSP 1923.00/20

Product tested	General purpose microprocessor design including safety features	**Certificate holder**	ARM Ltd. 110 Fulbourn Road Cherry Hinton Cambridge CB1 9NJ United Kingdom
Type designation	ARM Cortex-R52 Processor IP Core Revision r1p1 and r1p2		
Codes and standards	IEC 61508 Parts 1-7:2010 (in extracts)	ISO 26262 Parts 1-10:2011 (in extracts)	
Intended application	The ARM Cortex-R52 Processor IP Core complies with the requirements of IEC 61508 for SIL 3 regarding the avoidance of systematic faults for a Compliant Item and complies with the requirements of ISO 26262 for ASIL D regarding the avoidance of systematic faults for a Safety Element out of Context (SEooC). Based on an exemplary configuration, ARM showed that the target values for the random hardware fault metrics according to ISO 26262-5, Clauses 8 and 9 for ASIL D can be met. As a result this Cortex-R52 Processor can be used in safety-related applications up to SIL 3 according IEC 61508 and up to ASIL D according to ISO 26262.		
Specific requirements	The requirements and constraints mentioned in the Cortex-R52 Safety Manual have to be taken into account by the user.		

Valid until 2025-10-26

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1923.00/20 dated 2020-10-21.
This certificate is valid only for products which are identical with the product tested.

Köln, 2020-10-26

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln
Certification Body Safety & Security for Automation & Grid

Dr.-Ing. Thorsten Gantevoort

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln / Germany
Tel.: +49 221 806-1790, Fax: +49 221 806-1539, E-Mail: industrie-service@de.tuv.com