

Certificate



Functional
Safety

www.tuv.com
ID 0600000000

No.: 968/FSP 2689.00/24

Product tested	FPGA design tool chain including libraries	Certificate holder	Gowin Semiconductor Corporation Room 601, 235 Science Avenue, Huangpu District, Guangzhou 510700, Guangdong P.R. China
Type designation	GOWIN FPGA Designer including GOWIN FPGA device tool libraries For details see actual "Revision List"		
Codes and standards	ISO 26262-2:2018 ISO 26262-5:2018 ISO 26262-8:2018 ISO 26262-9:2018	IEC 61508-1:2010 IEC 61508-2:2010 IEC 61508-3:2010	
Intended application	GOWIN FPGA Designer tools and tool flow comply with the requirements for "Evaluation of the tool development process" and "Validation of the software tool" according to ISO 26262-8, clause 11.4.8 and clause 11.4.9 respectively up to TCL3 for ASIL D, as well as the requirements for T2 / T3 according to IEC 61508-3, clause 7.4.4 and the requirements of IEC 61508-2, Annex F. GOWIN FPGA device tool libraries with their library elements, developed as a Safety Element out of Context (SEooC), comply with the requirements of ASIL D according to ISO 26262. They are also developed as a Compliant Item and comply with the requirements of SIL 3 according to IEC 61508. In addition to the above listed standards ISO 26262-6, ISO 26262-10 and ISO 26262-11 were used to support the evaluation.		
Specific requirements	For the use the product the instructions of the Safety Manual and User Manuals must be considered.		

The issue of this certificate is based upon an evaluation in accordance with the Certification Programs CERT FSP2 V3.0:2020, CERT FSP1 V3.0:2020 in their actual version, whose results are documented in Report No. 968/FSP 2689.00/24 dated 2024-04-26. 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.

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

Köln, 2024-04-26

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Stefan Goi

www.fs-products.com
www.tuv.com

