

Certificate



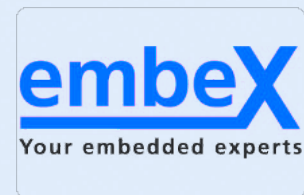
Functional Safety Management

FS Management (TÜV Rheinland)

E/E/PE-System Realisation, IEC 61508 Parts 1-7:2010 - Phase 10
FSM 117 - Centralized Group Certification

Certificate No. 968/FSM 117.11/20

Certified Company & Location
embeX GmbH
Heinrich-von-Stephan-Str. 23
79100 Freiburg
Germany



Scope of Certification **Centralized Group Certification for IEC 61508 Parts 1-7:2010**
considering the following Safety Life-Cycle Phase

Phase 10 - E/E/PE-safety related System Realisation

Details and limitations regarding the **Technical Scope and Local Scope of Certification** of committed Sites are listed in the attached **Certificate Appendix 968/FSM117.11/20** which forms an integral part of this certificate.

The certified company organization and its **committees Sites** as listed in the Certificate Appendix have successfully demonstrated during an audit process that a **Functional Safety Management System** has been implemented and applied.

Purpose of the audit is to obtain evidence of compliance with the organizational requirements related to the following aspects, **Management of Functional Safety, Documentation, Functional Safety Assessment** and Safety Lifecycle Phases according to the Scope of Certification up to and including **Safety Integrity Level 3 (SIL3)** and **Systematic Capability 3 (SC3)**.

This FSM Certification only refers to the listed company location and their involved departments, which comply with the organizational FSM requirements for the listed Scope of Certification, see Certificate Appendix.
It does not replace approval or certification for specific safety E/E/PE-safety related System developments.

Validity This certificate is valid until 2021-07-31

Cologne, 2020-10-30

TÜV Rheinland
Industrie Service GmbH
Automation and Functional Safety
Am Grauen Stein
51105 Cologne - Germany


Dr.-Ing. Thorsten Gantevoort

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

Certification Body Safety & Security for Automation & Grid
Further information referring to the scope of certification, see <http://www.tuv.com>

Certificate Appendix

This appendix forms integral part of Certificate No. 968/FSM 117.11/20, dated 2020-10-30

Certificate Holder (FSM Central Office)	embeX GmbH Heinrich-von-Stephan-Str. 23 79100 Freiburg Germany
Legal Responsibility	Same as Certificate Holder
Overall FSM Responsibility	Same as Certificate Holder

Details and limitations regarding the Local Scope of Certification *:

This FSM Certification only refers to company locations, as listed below, and their involved departments, which comply with the organizational FSM requirements for the considered Scope of Certification.

Details and limitations regarding the Technical Scope of Certification **::

This FSM Certification is related for Manufacturer, up to and including Systematic Capability 3 (SC3) and Safety Integrity Level 3 (SIL3).

Full phase responsibility of a Manufacturer for the development of safety related products according IEC 61508:2010-Phase 10 - E/E/PE-safety related System Realisation

considering the following activities:

development of safety related Hardware (E/E/PE safety lifecycle) and
development of safety related Software (Software safety lifecycle)

Levels of Certification ***:

Regarding the definition of **Maturity Levels** see latest **Certification Regulation** or information published on <https://www.certipedia.com/fs-products>.

Country	# of Offices	Local Scope of Certification / Committed Company Locations *	Technical Scope of Certification **	Maturity Level ***
Germany	2	embeX GmbH Heinrich-von-Stephan-Str. 23 79100 Freiburg	E/E/PES Realisation Phase 10	5
		embeX GmbH Max-Born-Straße 1 59423 Unna	E/E/PES Realisation Phase 10	2

Further Test Location(s) considered:

Local Business Unit	Address
--	No further test locations considered.

Important Notes:

Further information and validity of certification can be found on <https://www.certipedia.com/fs-products>.

Head of Certification Body for Certification of Management Processes

TÜV Rheinland Industrie Service GmbH
 Automation - Functional Safety & Cyber Security
 Am Grauen Stein
 51105 Cologne – Germany
Email: FSM.Services@de.tuv.com