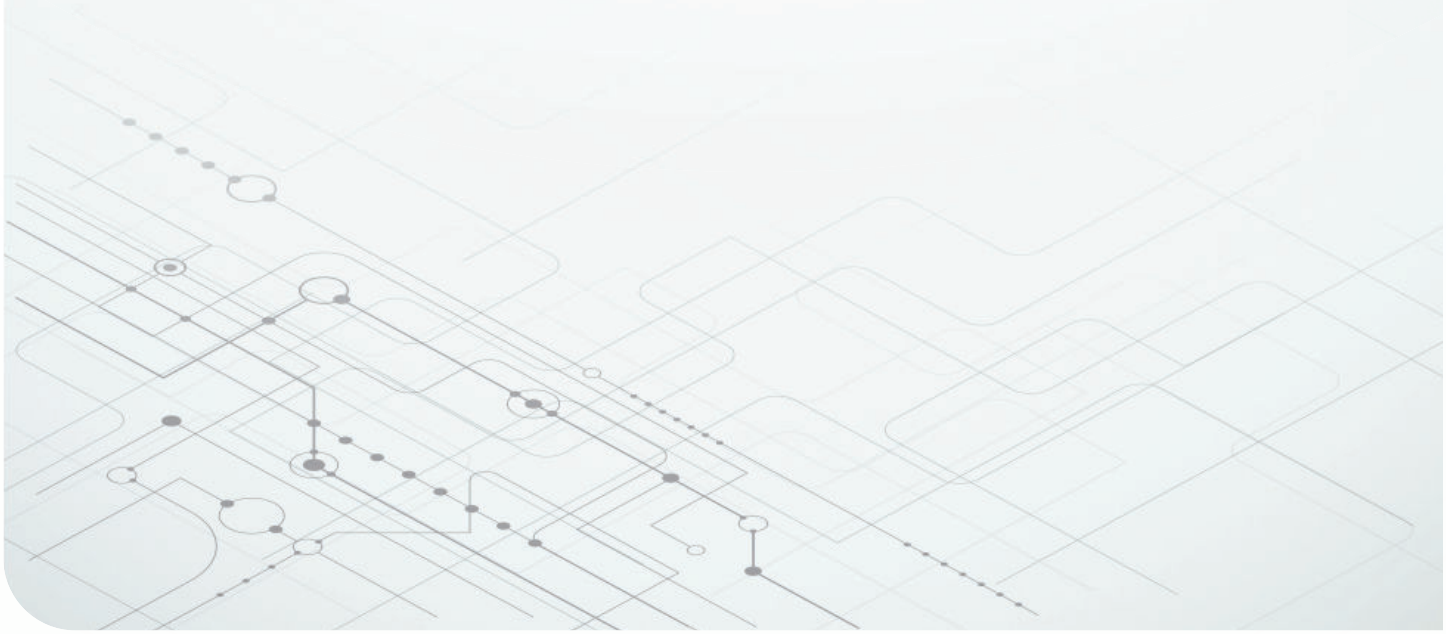
Jacinto™ Functional Safety Enablers

Texas Instruments



Leverage our functional safety diagnostic software library, compiler qualification kits, third party operating systems & development tools, and additional functional safety documentation to help your system-level certification efforts.

Functional Safety Assessments

Functional Safety Assessments	Products	Descriptions	Access
TUV-SUD certificate for QRAS-AP00210	TDA4VM, DRA829 DRA821	Functional safety development process for IEC 61508 and ISO 26262 Compliant Hardware Components	**Download**
TUV-SUD certificate for QRAS-AP00216	TDA4VH, TRA4VP, TDA4AH, TDA4AP TDA4VPE, TDA4APE TDA4VE, TDA4VL, TDA4AL	Functional safety development process for IEC 61508 and ISO 26262 Compliant Software Development	**Download**
Device Safety Assessment Certificate	TDA4VM, DRA829 (*Automotive*)	SoC meets ISO 26262 standards to achieve up to ASIL-D.	**Download**
	TDA4VM, DRA829 (*Industrial*)	SoC meets IEC 61508 standards to achieve up to SIL-3	**Download**
	DRA821	SoC meets ISO 26262 and IEC 61508 standards to achieve up to ASIL-D/ SIL-3.	In Progress
	TDA4VH, TDA4VP, TDA4AH, TDA4AP TDA4VPE, TDA4APE	SoC meets ISO 26262 and IEC 61508 standards to achieve up to ASIL-D/ SIL-3	**Download**
	TDA4VE, TDA4VL, TDA4AL	SoC meets ISO 26262 and IEC 61508 standards to achieve up to ASIL-D/ SIL-3	**Download**
Device Safety Assessment Certificate (Report on Safety Certificate)	TDA4VM, DRA829 (*Automotive*)	SoC meets ISO 26262 standards to achieve up to ASIL-D.	**Download**
	TDA4VM, DRA829 (*Industrial*)	SoC meets IEC 61508 standards to achieve up to SIL-3	**Download**

Table 1. *Functional Safety Assessments*

Jacinto Family Safety Collateral

TI provides additional supporting collateral available through a secure resource link (click **here to request access**) for all devices that are certified or currently undergoing certification. Access to this resource requires a signed NDA.

Supporting collateral includes:

- Device Safety Technical Report – Summarizes testing to show SoC meets ISO 26262 and IEC 61508 standards to achieve up to ASIL-D/SIL-3.

- Safety Manual - Provides information to aid customers in designing systems in compliance with ISO 26262 / IEC61508 functional safety standards

- FMEDA - Detailed, tunable, quantitative FMEDA for Jacinto functional safety Automotive products

- Safety Analysis Report - Summary of FIT rates, diagnostic coverage, and assumptions at the device level Jacinto functional safety Automotive products

- HW Safety User Guide - High-level description of device safety capability, assumptions of use, safety collaterals and support and tailoring to aid customers use the SoC in designing systems

Functional Safety Software

	Descriptions	Access
Functional Safety Diagnostic Software Library (SDL)	Safety Diagnostic Software Library (SDL) with Compliance Support Package	**PROCESSOR-SDK-J721E Software development kit (SDK) | TI.com** **PROCESSOR-SDK-J784S4 Software development kit (SDK) | TI.com** **PROCESSOR-SDK-J721S2 Software development kit (SDK) | TI.com** **PROCESSOR-SDK-J722S Software development kit (SDK) | TI.com** **PROCESSOR-SDK-J7200 Software development kit (SDK) | TI.com** (CSP available On Request)
Functional Safety AUTOSAR MCAL – Drivers with compliance support package	AUTOSAR MCAL drivers with compliance support package	
TI Safety Driver CSP	Software modules with Compliance Support Package with User Guide	
Safety Compiler Qualification Kit	Developed to assist customers in qualifying their use of the TI ARM, C6000, C7000 or C2000/CLA C/C++ Compiler to functional safety standards IEC 61508 and ISO 26262.	**Download**
Third Party Support		
SafeRTOS	Safety certified Real Time Operating System (RTOS) for embedded processors	**Visit**
AUTOSAR - KPIT	AUTOSAR basic software developed according to ISO 26262.	**Visit**
AUTOSAR – Vector	AUTOSAR basic software developed according to ISO 26262.	**Visit**
QNX OS for Safety – BlackBerry QNX	An embedded OS pre-certified for IEC 61508 SIL3, ISO 26262 ASIL D and IEC 62304 Class C.	**Visit**

Table 2. *Functional Safety Software*

2 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from December 31, 2022 to November 5, 2026 (from Revision A (December 2022) to Revision B (November 2026))	Page
• Added products to the *Functional Safety Assessments* table	2
• Additional reports included in Section *Device Safety Assessment Certificate*	2
• Updated content in Table *Jacinto Family Safety Collateral*, and table *Functional Safety Software*	2
• Removed Section *Additional Resources*	2

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