

C2000™ SafeTI™ Enablers

Leverage our SafeTI Diagnostic Software Library, compiler qualification kits, third party operating systems & development tools and additional SafeTI™ documentation to help your system-level certification efforts.

SafeTI certifications & assessments	Products	Description	Action
TUV-SUD certificate for QRAS-AP00210	TMS320F2837xD TMS320F2837xS TMS320F2807x	SafeTI Development Process for IEC 61508-2 and ISO 26262-5 Compliant Hardware Components	Download
UL 1998 Certificate [DC Arc fault detection SW lib]	TMS320F2806x TMS320F2805x TMS320F2803x TMS320F2802x	ANSI/UL 1998 SW in programmable components; integrated protective control for type-2 action (DC Arc fault detection SW lib)	Download
UL 1998 Certificate [C2000 Self-Test Library]	TMS320F2806x TMS320F2805x TMS320F2803x TMS320F2802x	ANSI/UL 1998 SW in programmable components; integrated protective control for type-2 action (Self-Test Software Library - Safety Control), C2000 Self-Test Library	Download
IEC 60730, 60335 VDE Certificate	TMS320F2806x TMS320F2805x TMS320F2803x TMS320F2802x	IEC 60730-1 (Annex-H), IEC 60335-1 (Annex-R) normative requirements for electronic controls	Download
TUV-SUD Assessment on Systematic Capability	TMS320F2837xD TMS320F2837xS TMS320F2807x TMS320F28004x	Systematic Capability technical report demonstrating compliance to ASIL D/SIL 3	Request
TUV-SUD Assessment on Random Hardware Capability	TMS320F2837xD TMS320F2837xS TMS320F2807x	Random HW Capability technical report demonstrating compliance to ASIL B/SIL 2	Request
Functional safety manuals and analysis reports	Products	Description	Action
Safety Manual for C2000 SafeTI automotive and industrial products	TMS320F2837xD TMS320F2837xS TMS320F2807x	Provides information to aid customers in designing systems in compliance with ISO 26262 or IEC 61508 functional safety standards	Download
Safety Manual for C2000 SafeTI automotive and industrial products	TMS320F28004x	Provides information to aid customers in designing systems in compliance with ISO 26262 or IEC 61508 functional safety standards	Download
Safety Manual for C2000 SafeTI quality managed products	TMS320F2806x TMS320F2805x TMS320F2803x TMS320F2802x	Provides information to aid customers in designing systems in compliance with IEC 60730 and IEC 60335 or UL 1998 functional safety standards	Download
Tunable FMEDA for C2000 SafeTI automotive and industrial products	TMS320F2837xD TMS320F2837xS TMS320F2807x TMS320F28004x	Detailed, tunable, quantitative FMEDA for C2000 SafeTI automotive and industrial products	Request
Tunable FMEDA Training	TMS320F2837xD TMS320F2837xS TMS320F2807x TMS320F28004x	5-part video training series on the detailed, tunable, quantitative FMEDA for C2000 SafeTI automotive and industrial products including a demo on tuning the FMEDA	View
FMEDA for C2000 SafeTI quality managed products	TMS320F2806x TMS320F2805x TMS320F2803x	Estimation based FMEDA for C2000 SafeTI quality managed products	Request

SafeTI software	Products	Description	Action
C2000 IEC 60730-1 Software Package	TMS320F2806x TMS320F2805x TMS320F2803x TMS320F2802x	UL/VDE Certified IEC 60730-1 Software Package	Download
C2000 SafeTI CLA STL	TMS320F2837xD TMS320F2837xS TMS320F2807x	C2000 SafeTI Control Law Accelerator Self-Test Library with Compliance Support Package	Download
SafeTI Diagnostic Software Library (SDL)	TMS320F2837xD TMS320F2837xS TMS320F2807x	Safety Diagnostic Software Library with Compliance Support Package	Download
Compiler Qualification Kit	All C2000 SafeTI Products	Release Validation based C28x and CLA Compiler Qualification Kit	Download
Third party tools	Description		Action
SafeRTOS	Safety certified Real Time Operating System (RTOS) for embedded processors		Visit
MathWorks	ISO 26262 and IEC 61508 certified simulation and code generation tools used by C2000 customers		IEC Certification Kit for ISO 26262 and IEC 61508 Using Simulink for ISO 26262 Projects
Additional Resources	Description		Action
Blog	C2000 SafeTI Diagnostic Software Library blog		Visit
Application report	C2000 CLA Self-Test Library		Download
Application report	C2000 Memory Power-On Self-Test (M-POST)		Download
Website	SafeTI Information		Visit

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