User’s Guide

C2000™ Safety Package for Automotive and Industrial Real-Time Microcontrollers

C2000 Microcontrollers

ABSTRACT

Thank you for your interest in C2000™ Safety collateral.

The following information for C2000 Safety MCUs is available publicly:

- For C2000 Safety Quality Manager (QM) MCUs
  - TMS320F2833x, TMS320F2823x, TMS320F2806x, TMS320F2805x, TMS320F2803x and TMS320F2802x
  - C2000 Safety 60730 Software Package
  - Functional Safety Manual for C2000 Safety QM MCUs

- For C2000 Safety Automotive and Industrial MCUs:
  - C2000 Diagnostic Software Library for TMS320F2837xD, TMS320F2837xS, TMS320F2807x: C2000 Diagnostic Software Library
  - C2000 Diagnostic Software Library for TMS320F28004x, TMS320F28002x: C2000Ware
  - Safety Manual for TMS320F2837xD/S and TMS320F2807x
  - Safety Manual for TMS320F28004x

Follow this process to access non-public safety information such as; Self-Test Library, Failure Modes, Effects, and Diagnostics Analysis (FMEDA), including tools for estimating module and device level failure rates (FIT), calculating ISO 26262 and IEC 61508 safety metrics, and training:

1. Contact your local TI Sales Person to request access to the:
   a. C2000 Safety Package for QM MCUs
   b. C2000 Safety Package for Automotive and Industrial MCUs
   c. Functional Safety Self-Test Library for TMS320F28004x

2. If approved, they will provide you with a request URL:
   a. Log-in with your my.ti.com user ID and password and fill-out the form.
   b. If accepted, you will receive an email with download instructions.

3. All questions related to the C2000 Safety collateral can be posted on the C2000 E2E forum.

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

Changes from Revision B (November 2018) to Revision C (November 2020)

- Updated the numbering format for tables, figures and cross-references throughout the document...
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