

# Stellaris® LM3S2965 Controller Area Network (CAN) Evaluation Kit

The Stellaris® LM3S2965 CAN Evaluation Kit is a compact and versatile evaluation platform for the Stellaris LM3S2965 ARM® Cortex™-M3-based microcontroller. The evaluation kit demonstrates a complete controller area network (CAN) using two Stellaris microcontrollers. The main evaluation board (EVB) configures a Stellaris LM3S2965 microcontroller as a CAN host. A small CAN device board, linked with a ribbon cable, uses a Stellaris LM3S2110 microcontroller. The function of each board is fully configurable in software.



## Features

The LM3S2965 evaluation board can be used as an evaluation platform or as a low-cost in-circuit debug interface (ICDI). In debug interface mode, the on-board microcontroller is bypassed, allowing connection of the debug signals to an external target. The kit is also compatible with high-performance external JTAG debuggers.

This evaluation kit enables quick evaluation, prototype development, and creation of application-specific designs for CAN. The kit also includes extensive source-code examples, allowing you to start building C-code applications quickly.

The evaluation kit includes the following features:

- Stellaris LM3S2965 microcontroller with fully-integrated CAN module
- Standalone CAN device board using Stellaris LM3S2110 microcontroller
- Simple setup: USB cable provides serial communication, debugging, and power
- OLED graphics display
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker

- LM3S2965 I/O available on labeled break-out pads
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- USB interface for debugging and power supply

## Kit Contents

The evaluation kit contains everything needed to develop and run applications for Stellaris microcontrollers including:

- LM3S2965 evaluation board (EVB)
- LM3S2110 CAN device board
- USB cable
- 20-pin JTAG/SWD target cable
- 10-pin CAN cable
- CD containing:
  - Complete documentation
  - Evaluation version of the software tools
  - Quickstart guide and source code
  - StellarisWare® Peripheral Driver Library and example source code
  - An evaluation version of one of the following:
    - Keil™ RealView® Microcontroller Development Kit (MDK-ARM)
    - IAR Embedded Workbench
    - Code Sourcery GCC development tools
    - Code Red Technologies Code Suite development tools
    - Texas Instruments' Code Composer Studio™ IDE

## Ordering Information

Product Number	Description
EKK-LM3S2965	Stellaris® LM3S2965 CAN Evaluation Kit for Keil™ RealView® MDK-ARM (32 KB code-size limited)
EKI-LM3S2965	Stellaris® LM3S2965 CAN Evaluation Kit for IAR Systems Embedded Workbench® (32 KB code-size limited)
EKC-LM3S2965	Stellaris® LM3S2965 CAN Evaluation Kit for CodeSourcery G++ GNU (30-day limited)
EKT-LM3S2965	Stellaris® LM3S2965 CAN Evaluation Kit for Code Red Technologies Red Suite (90-day limited)
EKS-LM3S2965	Stellaris® LM3S2965 CAN Evaluation Kit for Code Composer Studio™ IDE (board-locked)

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