TEXAS INSTRUMENTS

Stellaris® LM3S1968 Evaluation Kit

The Stellaris® LM3S1968 Evaluation Board is a compact and versatile evaluation platform for the Stellaris LM3S1968 ARM® Cortex[™]-M3-based microcontroller. The evaluation kit design highlights the LM3S1968 microcontroller's peripherals and its Hibernation module.



Features

A 3 V lithium battery, included in the LM3S1968 Evaluation Kit, supplies power to the Hibernation module and maintains data and real-time clock information for about two years in the absence of USB power.

You can use the EVB either as an evaluation platform or as a low-cost in-circuit debug interface (ICDI). In debug interface mode, the on-board microcontroller is disabled, 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 using the LM3S1968's broad range of peripherals. 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 LM3S1968 microcontroller
- Simple setup: USB cable provides serial communication, debugging, and power
- OLED graphics display
- User LED, navigation switches, and select pushbuttons
- 8 Ω magnetic speaker with class D amplifier

- Internal 3 V battery and support for on-chip hibernation module
- USB interface for debugging and power supply
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- LM3S1968 I/O available on labeled break-out pads

Kit Contents

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

- LM3S1968 evaluation board (EVB)
- USB cable
- 20-pin JTAG/SWD target 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-LM3S1968 | Stellaris® LM3S1968 Evaluation Kit for Keil™ RealView® MDK-ARM (32 KB code-size limited) | |
| EKI-LM3S1968 | Stellaris® LM3S1968 Evaluation Kit for IAR Systems Embedded Workbench® (32 KB code-size limited) | |
| EKC-LM3S1968 | Stellaris® LM3S1968 Evaluation Kit for CodeSourcery G++ GNU (30-day limited) | |
| EKT-LM3S1968 | Stellaris® LM3S1968 Evaluation Kit for Code Red Technologies Red Suite (90-day limited) | |
| EKS-LM3S1968 | Stellaris® LM3S1968 Evaluation Kit for Code Composer Studio™ IDE (board-locked) | |

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