DEVKIT-S12ZVC: Development Board for 9S12ZVCA192 MCU Evaluation

Overview

The DEVKIT-S12ZVC board features the 9S12ZVCA192 MagniV microcontroller for high-temperature automotive and industrial CAN node applications such as relays, actuators and switches. The S12ZVC family features an S12Z core, scalable memory up to 192 KB of Flash, integrated CAN physical layer, integrated 5 to 12 V voltage regulator, ADC, DAC, ACMP, 2 x SPI and SCI/LIN, 1 x IIC, offered in 48 and 64 LQFP packages and supports -40 to 150 °C temperatures.

The DEVKIT-S12ZVC is a low-cost development kit with CAN, LIN/SCI connections in a small form factor board compatible with the Arduino™ R3 UNO pinout. It has expansion options using the DEVKIT-COMM board. The development kit features a 12 V power supply, USB powered OpenBDM debug, potentiometer, dual push buttons and RGB LED.

Features

- S12ZVCA192 MCU
- OSBDM on-board open source programming and debugging tool
- Integrated CAN physical layer
- Integrated Voltage Regulator (VREG) for 3.5 to 20V operating range
- 16 channel 12-bit ADC

Supported Devices

- S08JM: 8-bit USB Cost-Effective JM MCUs
- S12ZVC: S12ZVC Mixed-Signal MCU for Automotive & Industrial CAN Applications

Community Discussion

💬 [S12ZVC HVI Interrupt is working but can't wake up]
Kit Contains

- DEVKIT-S12ZVC Development Board
- 8-bit DAC (digital to analog converter)
- 5V Analog Comparator
- USB to Serial Interface
- RGB LED
- ADC Potentiometer
- Supports CAN connector
- Power LEDs indicators
- 12V Power supply
- -40°C to 150°C temperature

Note: 12V (1 Amp) power supply is required for debugging and CAN/LIN communication, this is not included in the kit