S32K14WEVB-Q064: S32K144W Evaluation Board

Overview

The S32K14WEVB-Q064 is an evaluation and development board for general-purpose automotive applications with higher demands for ambient operating temperature range.

Based on the 32-bit Arm® Cortex®-M4F S32K144W AEC-Q100 Grade 0 qualified (-40° C to +150° C Ta), the S32K14WEVB-Q064 offers a standard-based form factor compatible with the Arduino® UNO pin layout, providing a broad range of expansion board options for quick application prototyping and demonstration.

Target Applications

Active Suspension

Electric Pumps

Engine Cooling Fans

Heating Ventilation, and Air Conditioning (HVAC)

EV Charger

## Specifications

### Technical and Functional Specifications

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| **Microcontroller (MCU)** | • 32-bit Cortex-M4F based S32K144 |
| **System Basis Chip (SBC)** | • UJA1169TK: Mini high-speed CAN system basis chip |
| **Transceivers** | • TJA1027: LIN 2.2A/SAE J2602 Transceiver<br>• TJA1145ATK: High Speed CAN Transceiver |
| **Adapters** | • OpenSDA: Serial and Debug Adapter with support for several industry-standard debug interfaces<br>• Easy access to the MCU I/O header pins for prototyping |
| **Size and Price** | • Small form factor<br>• Low cost |
| **Compatibility** | • Arduino® UNO pint-out compatible with expansion "shield" support |
| **Interfaces** | • On-board connectivity for CAN, LIN, UART/SCI |
| **Power Supply** | • Flexible power supply options: micro USB or external 12 V supply |
| **Components** | • 2 x touchpads<br>• 1 x potentiometer<br>• 1 x RGB LED<br>• 2 x push buttons |