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S32K MCU Platforms (/design/design-center/development-boards-and-designs/automotive-development-platforms/s32k-mcu-platforms:MCUS-32-BITS-PLATFORMS)
  / S32K116-Q048 Evaluation Board for Automotive General Purpose

S32K116-Q048 Evaluation Board for Automotive General Purpose

S32K116EVB   ⊘ **ACTIVE** (/support/sample-and-buy/product-lifecycle:PRDLIFCYC)   Receive alerts ⓘ
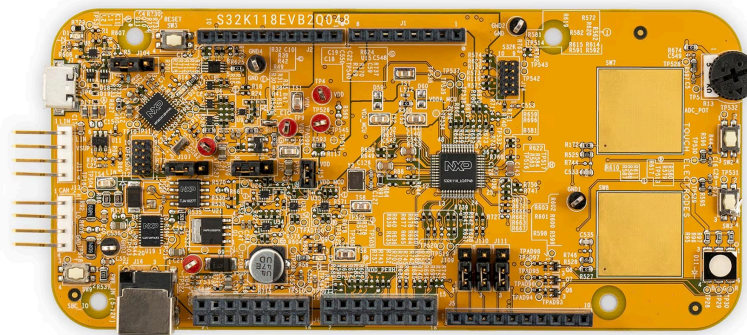
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The S32K116EVB2Q048 is a low-cost evaluation and development board for general-purpose industrial and automotive applications.

Based on the 32-bit Arm® Cortex®-M0+ S32K11x MCU, both S32K116EVB2Q048 and S32K116EVB-Q048 offer a standard-based form factor compatible with the Arduino® UNO pin layout, providing a broad range of expansion board options.

The two board versions integrate a security module complying with Secure Hardware Extension (SHE) specification for quick application prototyping and demonstration.

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Product Details

Supported Devices | Features

Supported Devices

Interfaces

Automotive LIN Solutions	• **TJA1027** (/products/interfaces/automotive-lin-solutions/lin-2-2a-sae-j2602-transceiver:TJA1027): LIN 2.2A/SAE J2602 Transceiver

Power Management

System Basis Chips	• **UJA1169TK** (/products/power-management/pmics-and-sbcs/system-basis-chips/mini-high-speed-can-system-basis-chip:UJA1169TK): Mini High-Speed CAN System Basis Chip

Processors and Microcontrollers

S32K Auto General-Purpose MCUs	• **S32K1** (/products/S32K1): S32K1 Microcontrollers for Automotive General Purpose

Features

Adapters	• OpenSDA (/design/microcontrollers-developer-resources/ides-for-kinetis-mcus/opensda-serial-and-debug-adapter:OPENSDA-OLD): Serial and Debug Adapter with support for several industry-standard debug interfaces
Size and Price	• Small form factor size 4.5" x 2.3" • Low cost
Compatibility	• Arduino® UNO pint-out compatible with expansion "shield" support
Interfaces	• On-board connectivity for CAN, LIN, UART/SCI
Power	• Flexible power supply options: micro USB or external 12 V supply
Components	• 2 x touchpads • 1 x potentiometer for precise voltage and analog measurement • 1 x RGB LED • 2 x push buttons

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