NXP Development Kits for Ultra-Reliable MCUs

For rapid prototyping and development of Automotive and Industrial Applications

Features

- Supports multiple architectures
- Motor Control expansion
- CAN/ LIN/ Ethernet/ FlexRay™ Communication options
- Ease-Of-Use

Product One-Sheet

Overview

The development kit is a small, cost effective evaluation and development system for quick application prototyping and demonstration with Automotive Microcontroller and Processor products.

Each platform offers an easy-to-use mass-storage device mode flash programmer, virtual serial port and classic programming and run-control capabilities.

It's easy, so get started today.

Features

Cost Effective and Easy to Use

- Development kits starting at $29.00 suggested resale
- Full support within S32 Design Studio (for ARM® or PPC based MCUs) and CodeWarrior IDE's (S12/S12Z)
- All kits come with Quick Start Guide and demo code examples

Small Form Factor

- PCB sizes less than 150mm x 100mm

Compatibility

- Arduino™ pin-compatibility
- Expand CAN and LIN/SCI ports by adding DEVKIT-COMM communication shield adapter
- Add BLDC and PMSM motor control using DEVKIT-MOTORGD shield adapter

Debug Simplicity

- Integrated USB based open-standard serial and debug adapter (OpenSDA)
- Integrated USB based serial background debug mode (OpenBDM) on all S12 and S12Z based products

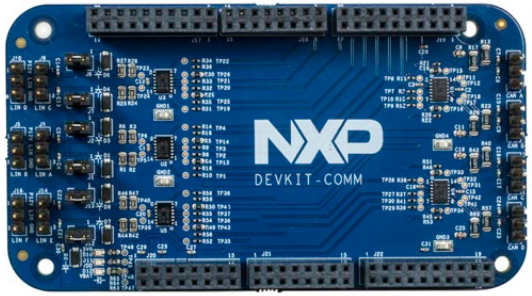
Capability

- Easy access to the MCU GPIO pins using available headers
- Communication support for CAN, LIN, Flexray, USB and Ethernet
- Potentiometer for precise voltage and analog measurement
- Flexible power supply options—microUSB or external 12V power supply

Example: DEVKIT-MPC5748G Development Kit



Shield Adapter Example: DEVKIT-COMM Expansion Board



Software Enablement and Support

- Full featured S32 Design Studio IDE (S32DS)
- Support for Keil®, IAR, SEGGER, CodeWarrior IDE, ARM mbed™ platform and more
- Integrated Software Development Kit S32 SDK (SDK)
- These are mbed and P&E Multilink enabled through the built-in USB flash programming interface (OpenSDA and OpenBDM)
- Look for one of the many lab code examples integrated into S32DS IDE and available on tool webpages

Portfolio

MCU

- DEVKIT-MPC5748G
- DEVKIT-MPC5744P
- DEVKIT-S12ZVL
- DEVKIT-ZVL128
- DEVKIT-S12VR64
- DEVKIT-S12ZVC
- DEVKIT-S12XE
- DEVKIT-S12G128

Expansion Boards

- DEVKIT-COMM (CAN/LIN communication)
- DEVKIT-MOTORGD (motor control)
- DEVKIT-TRANSLATE (translate FRDM pinout)

www.nxp.com/DEVKIT

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