

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

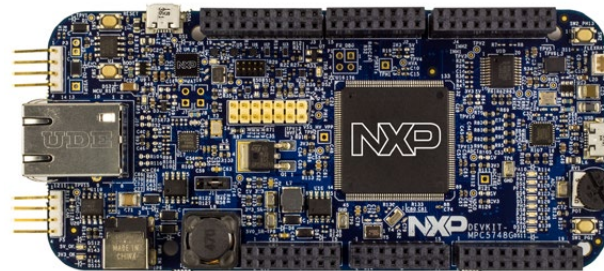
Debug Simplicity

- ▶ 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

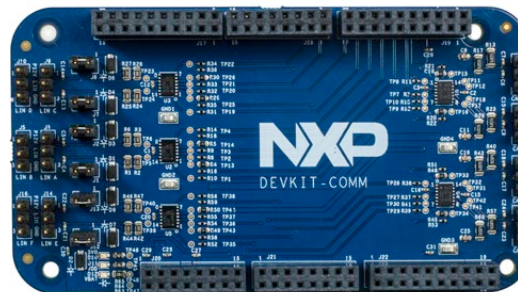
Capability

- ▶ 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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