NXP Development Kits for Ultra-Reliable MCUs
For rapid prototyping and development of Automotive and Industrial Applications

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

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

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

www.nxp.com/DEVKIT

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