NXP Development Kits for Ultra-Reliable MCUs

For rapid prototyping and development of Automotive and Industrial Applications

Features

- Supports multiple architectures
- CAN/ LIN/ Ethernet/ FlexRay™ Communication options
- Motor Control expansion
- 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
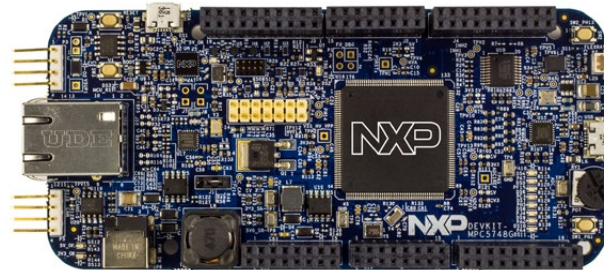- Add BLDC and PMSM motor control using DEVKIT-MOTORGD shield adapter

Debug Simplicity

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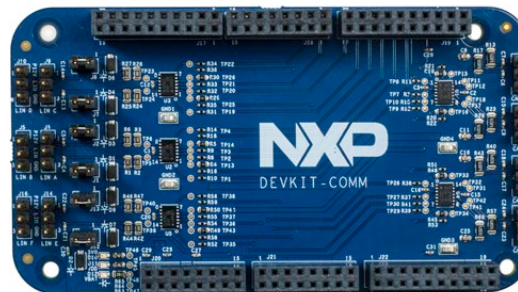- Integrated USB based serial background debug mode (OpenBDM) on all S12 and S12Z based products

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

Document Number: AUTOMCUDEVKITFS REV 0

Product Longevity

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Daughter Cards & OEM Boards *category:*

Click to view products by NXP *manufacturer:*

Other Similar products are found below :

ADZS-21262-1-EZEXT 27911 KITMPC5744DBEVM SPC56ELADPT144S TMDXRM46CNCD DM160216 MPC5777M-416DS EV-ADUCM350GPIOTHZ EV-ADUCM350-BIO3Z ATSTK521 1130 MA160015 MA180033 MA240013 MA240026 MA320014 MA330014 MA330017 TLK10034SMAEVM MIKROE-2152 MIKROE-2154 MIKROE-2381 TSSOP20EV DEV-11723 MIKROE-1108 MIKROE-1516 SPS-READER-GEVK AC244049 AC244050 AC320004-3 2077 ATSMARTCARD-XPRO EIC - Q600 -230 ATZB-212B-XPRO SPC560PADPT100S SPC560BADPT64S MA180018 EIC - Q600 -220 AC164134-1 BOB-12035 BB-BONE-BATT-01 STM8/128-D/RAIS AC164127-6 AC164127-4 AC164134-3 AC164156 MA320021 MA320024 DFR0285 DFR0312