

## UMultilink: Universal Multilink Development Interface ☆

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P&E's USB Multilink Universal is the next step forward for P&E's successful line of USB Multilink hardware interfaces. It combines support, in a single interface, for many Freescale architectures, including: S08, HC(S)12(X), ColdFire V1/ColdFire+ V1, ColdFire V2-4, Qoriwa MPC55xx/56xx, and Kinetis. The USB Multilink Universal is an easy-to-use debug and programming interface which allows the PC to communicate with a target processor through the USB port of the PC. It controls the MPU by accessing the debug port of the target. The groundbreaking USB Multilink Universal is able to accommodate communications with a variety of Freescale MCUs by featuring multiple headers, which can be accessed by simply flipping open the plastic case. Ribbon cables for the supported MCUs are conveniently included.

The Multilink's speed and reliability make it ideal for development. It is natively supported by recent versions of CodeWarrior® (10.x), current P&E software applications, and toolchains from IAR, Keil, Cosmic, and Mentor Graphics. The USB Multilink Universal can also be configured to support a specific architecture when using software packages that do not yet natively support the all-in-one nature of the USB Multilink Universal. This allows it to work with many existing software applications and toolchains.

P&E offers several In-Circuit Programmers for supported architectures, including Kinetis, that can be used with the USB Multilink Universal to program internal and external flash devices. The USB Multilink Universal also works with many of P&E's In-Circuit Debuggers for supported architectures to control the target processor's execution, read/write registers and memory, and perform full C source-level debug. P&E also offers the [USB Multilink Universal FX](#), a high-speed version of the USB Multilink Universal with additional enhancements. More information about P&E's all-in-one interfaces is available at [www.pemicro.com/universal](http://www.pemicro.com/universal).

\* The Multilink Universal does not work with CodeWarrior versions supporting PowerQUICC or QorIQ.

### Features

- Fast, hassle-free USB 2.0 communications interface
- Draws power directly from the USB port – no external power supply needed
- Multi-voltage support for targets ranging from 1.6 to 5.25 volts
- Includes ribbon cables which support a variety of Freescale MCUs
- Compact size

### Related Software and Tools

- [TWR-MCF51CN](#): ColdFire MCF51CN128 Ethernet Tower System Module
- [TWR-S08LL64](#): MC9S08LL 8-bit Segment LCD Tower System Module
- [TWR-S08LH64](#): MC9S08LH 8-bit Segment LCD Tower System Module

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### Supported Devices

- ⊕ V1 MCUs
- ⊕ S08 5.5V MCUs
- ⊕ S08 3.6V MCUs
- ⊕ RS08
- ⊕ S12 and S12X
- ⊕ ColdFire+ MCUs
- ⊕ V2 MCUs
- ⊕ V2 Embedded Processors
- ⊕ V3 Embedded Processors
- ⊕ V4 Embedded Processors
- ⊕ Qoriwa MPC56xx
- ⊕ Qoriwa MPC55xx
- ⊕ K10 Baseline MCUs
- ⊕ K20 USB MCUs
- ⊕ K30 Segment LCD MCUs
- ⊕ K40 USB and Segment LCD MCUs
- ⊕ K50 Measurement MCUs
- ⊕ K60 Ethernet Crypto MCUs
- ⊕ K70\_120: Kinetis K70 Graphic LCD 120/150 MHz MCUs
- ⊕ MC56F80xx
- ⊕ 56F824X\_825X: Digital Signal Controller
- ⊕ MC56F81xx
- ⊕ MC56F84xxx: Digital Signal Controllers
- ⊕ Kinetis L Series MCUs

### Featured Documentation

- [UMULTILINKFS](#): UMULTILINK Fact Sheet
- [USBMLUNIVERSALFX](#): USB Multilink Universal & USB Multilink Universal FX Technical Summary

### Current Updates and Releases

- [U-MULTILINK-FX](#): Universal Multilink FX High-Speed Development Interface

### Kit Contains

- U-Multilink
- Ribbon cables for Freescale MCUs

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#### Products

- [K60\\_100](#): Kinetis K60 Ethernet ...
- [S12XE](#): 16-Bit Automotive Micro...
- [MCF5225X](#): One-Stop-Shop Connec...

#### Documentation

- [UMULTILINK](#) Fact Sheet
- [USBMLUNIVERSALUG](#) Universal Mul...
- [USB Multilink Universal & USB ...](#)

#### Software and Tools

- [U-MULTILINK-FX](#): Universal Mult...
- [USBMULTILINKBDM](#): USB S08/HCS12...
- [CodeWarrior for MCUs \(Eclipse ...](#)

#### Applications

- [Motorcycle Engine Control...](#)
- [Controller Area Network \(...](#)
- [Gasoline Engine Managemen...](#)