USB Multilink Universal: An All-In-One Development Interface
Affordable & Versatile

Overview
P&E's **USB Multilink Universal** is part of P&E's line of "universal" USB Multilink debug probes. It combines support, in a single interface, for many of NXP's 8-/16-/32-bit architectures with support for ARM® Cortex® devices from several manufacturers, including NXP's Kinetis and LPC (see below).

Supports NXP & Multiple ARM Cortex Manufacturers

NXP 8-/16-/32-bit devices:

· Kinetis®
· S32
· LPC
· MPC5xxx (& STMicro SPC5)
· ColdFire® +/V1
· ColdFire V2/3/4
· DSC

· HC(S)12(X)
· S12Z
· HCS08
· RS08
· MAC7xxx
· **ARM Cortex-based devices**

Applications
· Development/Prototyping

Hardware 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 for supported architectures
· Compact size

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 microprocessor 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.

Development Solutions
The Multilink Universal's speed and reliability make it ideal for development. It is natively supported by recent versions of CodeWarrior® (10.x), Kinetis Design Studio, LPCXpresso, current P&E software applications, and toolchains from many NXP partners including Keil, Cosmic, and Green Hills (check with vendor for device compatibility).

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. It 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.

A Universal Approach
P&E also offers the **USB Multilink Universal FX**, a very high-speed version of the USB Multilink Universal with additional enhancements. These two all-in-one development interfaces give you the choice of prioritizing speed or cost.

RAM Download Speed
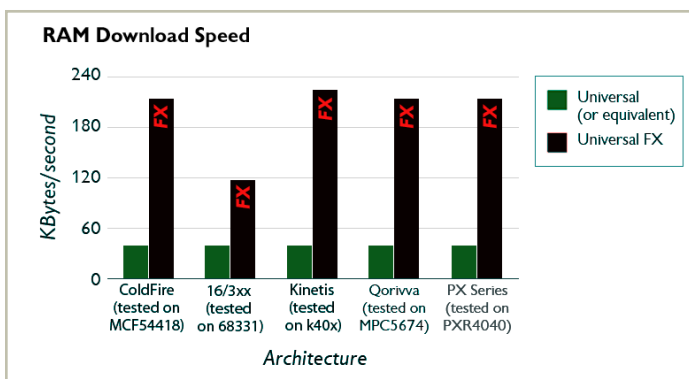
More information on the USB Multilink Universal is available at **www.pemicro.com/multilink**.