Overview

The Cyclone PRO is a powerful stand-alone in-circuit programmer and debug interface for Freescale’s HC08, HCS08, HC(S)12(X), RS08, and ColdFire+/V1 architectures. The Cyclone is able to control a processor using the processor’s debug port, which allows the user to quickly debug code and program it onto the microcontroller. Communication with the PC occurs via Ethernet, USB, or Serial Port. Once the Cyclone is configured, programming operations may be completed in one touch with or without a PC.

The Cyclone’s flexibility and intuitive software allow for a seamless transition between development and production environments. The Cyclone and the target being debugged may be local to the PC or connected remotely via Ethernet. Multiple Cyclones on your network can easily be detected and controlled from the same PC. In addition, the Cyclone PRO has been specifically designed with features like voltage protection technology in order to withstand the rigors of a production environment.

For debugging, prototyping, and other development projects, the Cyclone can be used in Interactive Mode as a robust hardware debug interface between the PC and the microcontroller. A header is generally mounted on the microcontroller’s PCB which facilitates the in-circuit debug and programming. The Cyclone is supported by P&E’s development software, Freescale’s Codewarrior, and other third-party software (available separately).

In Stand-Alone Mode, the Cyclone PRO is configured and loaded with one or more programming images. Control of the Cyclone may then be automated using a PC (e.g., for large production runs), or the Cyclone can be operated independently of the PC (e.g., for field updates). An LCD screen facilitates configuration and operation of the unit. The display’s menu-based navigation allows the user to easily select the image to be programmed when the Cyclone PRO contains multiple programming images.

More information on the Cyclone PRO is available at www.pemicro.com.