



CYCLONE for ARM® DEVICES

In-Circuit Production Programming, Debug & Test

Overview

The **Cyclone for ARM devices (Rev. C)** is P&E's versatile **stand-alone** in-circuit programmer for many ARM® Cortex®-based devices. Communication with the PC occurs via Ethernet, USB, or Serial Port. Once the Cyclone is configured, programming operations may be completed in **one touch** without a PC, or **automated** in conjunction with a PC. The Cyclone may also be used as a **debug probe** via USB, Ethernet, or Serial communications, and is supported in NXP's CodeWarrior and Kinetis Design Studio, P&E's GDB Server, and many commercial development tools.

The Cyclone has an extensive **library of programming algorithms** for both **internal** and **external** flash. P&E continually adds to this library and welcomes requests for devices that are not currently supported.

Production Power & Flexibility

The Cyclone's **flexible** set-up and **intuitive** software allow for a smooth transition to an easily scalable production programming environment. The Cyclone has over **16 MB** of non-volatile memory, which allows for the onboard storage of up to **8 programming images**. In **Stand-Alone Mode**, the Cyclone for ARM devices is configured and loaded with one or more programming images. The Cyclone features a **million-press** Start button and **4.3" touchscreen** LCD for manual control and configuration which allow it to operate **independently of the PC**. Cyclone operations may also be **automated** from a PC via the Automated Control Package SDK. The Cyclone and the target being programmed 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.

The Cyclone for ARM devices can provide 1.6V-5.2V power to the target and also has the ability to switch a target's power supply via internal relays. It has been specifically designed with features like **voltage protection technology** in order to withstand the rigors of a production environment. A **battery pack** is available from P&E to facilitate field operations.

Supports Multiple ARM Cortex Manufacturers

- NXP® (LPC and Kinetis®)
- Atmel (SAMxxx)
- Cypress (PSoC® 4)
- Infineon (XMC)
- Maxim (MAX716xx)
- Silicon Labs (EFM32™, SiM3)
- STMicroelectronics (STM32)
- Texas Instruments® (LM3S, LM4, TM4C12x)
- Toshiba (TX00, TX03, TX04)

Applications

- In-Circuit Programming
- In-Circuit Debug
- Production Programming
- Field Updating
- Product Testing

Hardware Features

- Ethernet, USB, and Serial Communication Interfaces
- Supports very fast communication speeds
- 4.3" LCD Touchscreen
- 16Mb internal memory, for up to 8 programming images
- Multi-voltage support for targets ranging from 1.6 to 5.2 Volts
- Production environment ready with voltage protection technology
- Allows switching of the target's power supply

Flash Programming Highlights

- Highly intuitive, fast in-circuit flash programming
- Capable of programming internal and external flash
- Multiple image support for programming of different images during production runs
- Anti-tamper technology
- Trimming capabilities
- PC-controlled and stand-alone functions for programming and testing of units on production lines
- Can program dynamic data, such as serial numbers

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