



## CYCLONE for STMicro

The Ultimate Production Programming Tool

### Overview

The **Cyclone for STMicro** is a powerful **stand-alone** in-circuit programmer for **STMicroelectronics** devices, including the STM8, STM32, and SPC56 families. 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.

P&E also hosts a rapidly growing library of compatible programming algorithms 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 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. In addition, the Cyclone for STMicro devices has been specifically designed with features like voltage protection technology in order to withstand the rigors of a production environment.

In **Stand-Alone Mode**, the Cyclone for STMicro devices 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 for STMicro devices contains multiple programming images.

More information on the Cyclone for STMicro devices is available at: [pemicro.com/cycloneST](http://pemicro.com/cycloneST).

### Supports Multiple Device Families

- STM8
- STM32
- SPC56

### Applications

- Production Programming
- Testing
- Field Maintenance

### Hardware Features

- Ethernet, USB, and Serial Communication Interfaces
- Supports extremely fast communication speeds
- LCD Screen
- CompactFlash interface for expanded memory
- Multi-voltage support for targets ranging from 1.8 to 5 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
- 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