



### **At a Glance:**

- Low-cost, very fast programmer for engineering and low-volume production
- Palm-size tool - 160x90x25 mm or 6¼x3¾x1inch
- 48-pin DIP ZIF socket
- USB 2.0 interface to a host computer
- Very fast programming operations
- Unlimited support for future devices
- Lifetime free software updates

### **Device support:**

- Memory: serial and parallel, NOR and NAND Flash memory devices, PROM, EPROM, EEPROM
- Microcontrollers with Flash and OTP memory, including the ARM7, ARM9, Cortex, 8051, PIC, AVR, MSP430, Z8, 9S08 and 9S12 architectures
- Programmable logic: PALs, GALs, PLDs, EPLDs
- In-system programmable devices of all types

### **Semiconductor manufacturers support:**

- Altera, AMD, AMIC, Atmel, Cypress, Dallas Semiconductor, EON, Freescale, Fujitsu, Hynix, Holtek, Hitachi, ICT, Infineon, Intel, ISSI, Lattice, Macronix, Microchip, Micron, Mitsubishi, NSC, NXP/Philips, Numonyx, Renesas, Samsung, Sharp, Spansion, STMicroelectronics, SST, Texas Instruments, Winbond, Xilinx, Zilog and others

### **Package support:**

- Requires no adapters for operations with any devices in DIP packages with up to 48 pins
- Phytion adapters for operations with devices in PLCC, SOIC, TSOP, MSOP, TSSOP, SSOP, QFP, BGA, QFN, MLF and other packages as well as cables for in-system programming are available
- Compatible with a variety of third party adapters

### **Automation and Multiprogramming:**

- Allows operations with projects to simplify and speed up operations with different device types
- Single programming commands can be executed automatically as a preset batch of single operations
- Built-in C-like script language enables automation of complex and routine programming operations
- Incorrect device insertion and bad contacting test
- Programming starts automatically upon the device being reliably inserted and fixed in the socket
- Can be controlled from external applications
- Supports volume programming by writing serial numbers, checksums, signatures into target devices
- Maintains the programming log
- Unlimited numbers of programmers can be connected to one host PC for the concurrent programming of multiple devices

### **Miscellaneous:**

- Start button for fast manual control
- Hot keys for major operations: Blank Check, Erase, Read, Program, Verify, Lock and Auto
- Loads files in Binary, Intel HEX, Motorola S-Record, POF, JEDEC, PRG and other formats
- Unlimited number of memory dump buffers
- Dump buffers are featured with multi layer structure corresponding to the device memory map
- Easy preset for microcontrollers parameters: SFRs, boot vectors, oscillator options, voltages, etc.
- Automatically calculates and displays checksums of the data dumps in memory buffers
- The embedded editor operates with Hexadecimal, Decimal, Binary and ASCII data in memory buffers and enables full screen data editing in buffers
- Allows advanced block operations in buffers: copy, move, compare, fill with data, search, etc.

Phytion, Inc. Microsystems and Development Tools

7206 Bay Parkway, 2nd floor, Brooklyn NY 11204, USA • Phone: 718 259-3191 • Fax: 718 259-1539

info@phyton.com • http://www.phyton.com