

# SUPERPRO<sup>®</sup>/3000U

## USB Interfaced Ultra-high Speed Stand-alone Universal Device Programmer

- ◆ Programs and Verify 32Mb Flash Memories Within 13 Sec.
- ◆ Up to 100 Pins Universal Pin-drivers
- ◆ Supports 42,000+ Devices including 1.5V devices
- ◆ High Programming Quality
- ◆ PC Hosted (USB) and Stand-alone Dual Modes in One Unit
- ◆ Powerful and Intelligent software





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USB Interfaced Multi-application High-speed Universal Device Programmer

## FEATURES

### ◆ Fastest programmer in the West (and East)

Programs high-density Flash memory devices at near theoretical minimum programming times (Programs and Verifies Intel 28F320W18, 32Mb, in 13 Sec.)

### ◆ Universal pindrivers up to 100 pins

- \* Standard universal 48 pindrivers support devices down to 1.5 volts.
- \* 100 pindriver expander module (option), PEP3000, allows for programming of devices with up to 100 pins.
- \* Universal pindriver architecture up to 100 pins makes it easy to develop device algorithms and to locate socket adapters.

### ◆ Advanced hardware features

- \* Advanced hardware design minimizes ground bounce noise enabling programming of low voltage, down to 1.5 volts, devices reliably.
- \* Only IC manufacturer approved programming algorithms are used for high reliability.
- \*  $\pm 5\%$  and  $\pm 10\%$  Vcc Verification enhances programming reliability.

### ◆ Supports 42,000+ devices from 170 IC manufacturers including MEMORY, MCU, and PLD.

- \* Free software updates via Internet. New device updates released monthly.

### ◆ Designed for multi-applications, three modes of operation are supported.

- \* Standard PC hosted operation for R&D and Engineering.
- \* Stand-alone operation for manufacturing or service. Built-in keyboard and LCD display provides for local operation.
- \* Terminal mode to operate via an external instrument such as IC handler, terminal, or controller.

### ◆ Pin continuity and wrong chip insertion check prevent chips from accidental damage.

### ◆ Over-current and over-voltage protection for safety of the chip and programmer hardware.

### ◆ WINDOWS 98/ME/NT/2000/XP compatibility

### ◆ New user-friendly and powerful software with many new functions.

- \* **Project** function simplifies processes such as device selection, file loading, device configuration setting, program option, and batch file setting into **one touch step**.
- \* **History** of device selection and file loading simplifies user operation.
- \* **Batch** command combines device operations like program, verify, security into a single command at any sequence.
- \* **Auto Start** Batch command begins to program a chip automatically as soon as the chip is inserted.
- \* **Serial numbers** can be generated and programmed onto a chip.
- ◆ **Clustering of programmers provides for flexible and easy way** for volume production programming. Several units work together in stand-alone mode to provide an environment for volume programming. Advantages over traditional gang programming are:
  - \* **Flexible and expandable** Start with one unit and add more units as the need arises.
  - \* **Less downtime** In case of a failure of a unit, other units continue to operate
  - \* **Concurrent programming** Each chip begins to program as soon as a chip is inserted into a socket.
  - \* **30,000+ devices supported** Device updates are quick and easy.

## SPECIFICATIONS

### Devices Supported:

EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration Serial PROM, FLASH Memory (NOR and NAND), BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic.

### Socket Adapters Supported:

DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, TSOPII, SOP, P SOP, TSSOP, SON, EBGA, FBGA, VFBGA,  $\mu$  BGA, CSP, SCSP etc.

### PC Interface: USB

**Stand-alone Mode Operation Storage Media:** Compact FLASH Card(option)

**Optional Accessories:** PEP3000 Pin-driver Expansion Pack, Socket Adapters, Compact Flash Card

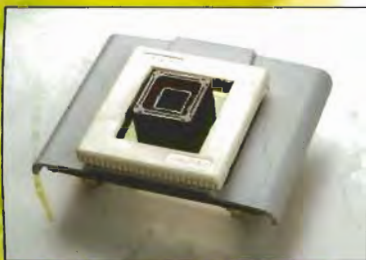
## HARDWARE & ELECTRICAL SPECIFICATIONS

**Items Included:** programming unit with DIP48 pin socket, AC adapter, Program CD, USB Cable, User's Guide

**Power Supply:** Input 100V-240VAC, Output 12VDC/2.0 Amp.

**Programmer Unit Dimension:** 325 mm  $\times$  310 mm  $\times$  83 mm

**Gross Shipping Weight:** 1.9 KG.



## XELTEK

Xeltek Inc.  
1296 Kifer Rd.  
Unit 605  
Sunnyvale CA 94086  
Tel) +1 408 530 8080  
Fax) +1 408 539 0096  
www.xeltek.com

www.xeltek.com