

SUPERPRO M

Lowest cost Universal Device Programmer equipped w/ 48pin drive, USB 2.0, ultra-high speed

- Fastest Lowest-cost Programmer: With ARM7 MCU it gives ultra-fast programming experience.
- Programs devices with Vcc as low as 1.2V
- Built-in 48 universal pin drivers
- CE and ROHS Compliant

XELTEK

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Features:

- Supports 19,880 IC devices from 158 manufactures.
- Programs devices with Vcc as low as 1.2V.
- Ultra fast programming.
- Built with 48 universal pin-drivers for support of today's most complex devices. Universal and device independent socket adapters are avail able for various packages.
- The programmer operates in PC hosted mode.
  - o Under PC hosted mode, a PC controls the programmer via a high-speed USB2.0 connection to program a chip.
- ISP/ICP programming capability through optional ISP/ICP adapter.
- Only IC manufacturer approved programming algorithms provide high reliability. Vcc verification at (+5%~-5%) and (10%~-10%) enhances pro gramming reliability.
- Provides over-current and over-voltage protection for safety of the chip and programmer hardware.
- Compatible with Windows 7 & Vista & XP 32/64 bit
- Includes the following advanced and powerful software functions:
  - o Chip operation starts immediately upon proper chip insertion in Pro duction Mode.
  - o The Project function simplifies processes such as device selection, file loading, device configuration setting, program option, and batch file setting into one step.
  - o Password protection provides security for project files and produc tion volume control.
  - o The Batch command combines device operations like program, verify, security into a single command at any sequence.
  - o Serial number generators are available as standard or customer-specific functions.
  - o A Log file provides quality tracking.

Speed Comparison:

Device	Program + Verify (Sec)	Compare with SP3000U	Type
AT28C64B	0.8(P)+0.1(V)= 0.9(s)	1.2(P)+0.8(V)= 2.0(s)	64Kb EEPROM
24AA128	2.7(P)+1.8(V)= 4.5(s)	5.0(P)+4.0(V)= 9.0(s)	128Kb EEPROM
QB25F640S33B60	29.0(P)+14.4(V)= 43.4(s)	55.2(P)+41.4(V)= 96.6(s)	64Mb EEPROM
AT89C55WD	2.5(P)+0.4(V)= 2.9(s)	3.3(P)+1.0(V)= 4.3(s)	20KB FLASH MCU
S25FL064A	43.9(P)+14.7(V)= 58.6(s)	72.8(P)+41.4(V)= 114.2(s)	64Mb SPI EEPROM
PIC16F876A	10.1(P)+0.8(V)= 10.9(s)	22.1(P)+06.2(V)= 28.3(s)	

Hardware & Electrical Specifications:

- Devices Supported: EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR), BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Package: DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPII, PSOP, TSSOP, SON, EBGA, FBGA, VFBGA, uBGA, CSP, SCSP,…
- PC interface: USB2.0 (High speed)
- Power supply: AC Adapter: Input AC 90V- 250V, 50/60Hz; DC Output: 12V/2A; power 15W
- Main unit: Dimensions 178mm (L) * 130mm (W) * 40mm (H) Weight 0.85 lbs (0.8Kg)
- Package: Dimensions 320mm (L) * 300mm (W) * 85mm (H) Weight 3 lbs (1.8Kg)

Items Included:

- SuperPro M Programmer with a DIP48 Adapter
- AC adapter
- Software CD