

SuperPro 501S Programmer



Ordering Information

Weight

4.00 lbs

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SuperPro 501S
USB Interfaced,
Ultra-High Speed Stand-Alone Economy Universal Device Programmer

Features

- Fastest Cheapest Stand-Alone Programmer: With ARM7 MCU it gives ultra-fast programming experience.
- Two programmers in one, a double value: PC mode for engineering and Stand-alone mode for production. The programmer operates in either PC hosted mode or stand-alone mode.
 - Under PC hosted mode, a PC controls the programmer via a high-speed USB connection to program a chip.
 - Under stand-alone mode, the user controls the programmer via 20-characters, 4-line LCD display with 6-KEY keypad.
 - A CF (compact flash) card stores the project files.
- Built-in 48 universal pin drivers
- **CE and ROHS Compliant**

Detailed Features

- Supports 34,792 IC devices from 215 manufacturers and continuing.
- Programs devices with Vcc as low as 1.2V.
- Ultra fast programming speed: Programs and verifies 64 Mb NOR FLASH memory in 11.3 seconds.
- Built with 48 universal pin-drivers for support of today's most complex devices. Universal and device independent socket adapters are available for various packages.
- The programmer operates in either PC hosted mode or stand-alone mode.
 - Under PC hosted mode, a PC controls the programmer via a high-speed USB2.0 connection to program a chip.
 - Under stand-alone mode, the user controls the programmer via 20-characters, 4-line LCD display with 6-KEY keypad. A CF (compact flash) card stores the project files. In stand-alone mode, the user can operate multiple units to construct a concurrent multiprogramming system.
- 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 programming 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:
 - Chip operation starts immediately upon proper chip insertion in Production Mode.
 - The Project function simplifies processes such as device selection, file loading, device configuration setting, program option, and batch file setting into one step.
 - Password protection provides security for project files and production volume control.
 - The Batch command combines device operations like program, verify, security into a single command at any sequence.
 - Serial number generators are available as standard or customer-specific functions.
 - 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)	
PIC18F442	5.1(P)+1.1(V) = 6.2(s)	13.6(P)+06.7(V)=20.3(s)	

Device Updates

- XELTEK updates software and device algorithm regularly.
- View the latest [Device List](#).
- Download the current software version free of charge at [Download Center](#).

Volume Production Solutions

By operating multiple programmers simultaneously you can use them in high volume production environment.

Clustering of programmers provides for flexible and easy way for **volume production**.

Optional Compact Flash card is necessary to store user data, and device algorithm in stand-alone operation. For most operation. 256MB size is recommended.



[Click here for more information about Volume Production Solution](#)

Warranty Support

Standard 2 Years Warranty: Included with purchase of SuperPro 501S. Covers device update and repair. Xeltek pays Fedex GND when shipping product back to customer for US only. It doesn't apply for international customers.

Programmer is warranted to be free of manufacturing or workmanship defects for two years from the date of purchase. For technical support, you may use ticketing system, live chat or forum; you may also give us a call during our business hours Monday through Friday, from 8:00am to 4:30pm (PST).

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)
- Stand-alone memory: Compact FLASH Card
- Power supply: AC Adapter: Input AC 90V- 250V; Output: 12V/2A
- Main unit: Dimensions 205mm (L) * 148mm (W) * 50mm (H) Weight 1.35 lbs (0.6Kg)
- Package: Dimensions 320mm (L) * 300mm (W) * 85mm (H) Weight 4lbs (1.8Kg)

Items Included

- SuperPro 501S Programmer with a DIP48 Adapter
- AC adapter
- Software CD

Optional Accessories:

- Adapter in various packages
- CF card for stand-alone operation

Ultra-high speed stand-alone universal device programmer, built-in 144 universal pin drivers.

SUPERPRO/501S

通用智能极速经济型编程器



特点:

- 支持215个厂商, 34792颗可编程器件。
- 本产品采用SUPERPRO/5000内核, 与SUPERPRO/5000等速度一致, 采用48脚万能驱动电路, 支持器件略低于SUPERPRO/3000U (以器件支持清单为准)。
- 读写编程速度无与伦比, 芯片烧写速度平均提高2~10倍以上。
- 48脚万能驱动电路, 兼容SUPERPRO/3000U适配器。
- 直接支持1.2V到5V各种电压器件。
- 更先进的波形驱动电路保证极高的烧写成功率。配合IC厂家认证的算法, 无论是低电压器件、二手器件还是低品质器件均能保证极高的编程良品率。编程结果可选择高低双电压校验, 保证结果持久稳固。
- 联机模式下PC通过USB2.0口(高速)控制编程器, 调试方便适合研发; 脱机模式下编程器依赖自身的CPU、LCD显示器、可移动存储器(标准CF卡)脱离PC独立运行, 操作便捷, 易于扩展, 最适合工厂现场大批量生产。CF卡根据容量大小最多可以存储100多个工程文件。
- ISP功能, 通过ISP下载线实现在线编程。
- 自动检测芯片错插和管脚接触不良, 避免损坏器件。
- 完善的过流保护功能, 避免损坏编程器。
- 丰富的软件功能简化操作, 提高效率, 避免出错, 对用户关怀备至。工程(Project)将用户关于对象器件的各种操作、设置, 包括器件型号设定、烧写文件的调入、配置位的设定、批处理命令等保存在工程文件中, 每次运行时一步进入写片操作, 有效降低误操作概率。工程文件可设密码防止资料外泄。批处理(Auto)命令允许用户将擦除、查空、编程、校验、加密等常用命令序列随心所欲地组织成一步完成的单一命令。量产模式下一旦芯片正确插入插座CPU即自动启动批处理命令, 无须人工按键。标准的序列号生成和插入功能并可接受用户定制特殊序列号生成器。日志文件为质量跟踪提供便利。工程文件可增加管理权限及产量控制。
- 支持新器件仅需升级软件(免费)。

- 支持WINDOWS XP/VISTA/Win7
- 一年质量保证

芯片型号	编程+校验(秒)	与SP3000U比较	类型
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 串行 EEPROM
QB25F640S33B60	29.0(P)+14.4(V)= 43.4(s)	55.2(P)+41.4(V)= 96.6(s)	64Mb 串行EEPROM
AT89C55WD	2.5(P)+0.4(V)=2.9(s)	3.3(P)+1.0(V)=4.3(s)	20KB FLASH MCU
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规格参数:

- 器件支持: EPROM、Paged EPROM、并行和串行EEPROM、FPGA配置串行 PROM、Flash、BPROM、NVRAM、SPLD、CPLD、EPLD、Firmware HUB、单片机、MCU、标准逻辑器件等（以器件清单为准），器件工作电压1.2-5V。
- 封装支持: DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPII, PSOP, TSSOP, SON, CSP, SCSP, ...
- 联机通讯接口: USB2.0
- 脱机模式: 支持脱机操作
- 电源规格: 输入交流 100-240V, 50/60HZ; 输出直流 12V/2A 功耗:15W
- 主机尺寸: 178*130*40 毫米; 重量: -公斤
- 包装尺寸: 320*300*85 毫米;包装毛重: 1.8公斤

标准配置:

- 主机、电源一个、USB2.0电缆一根、用户手册一本、软件光盘一张、保修卡一张。
- 选配: 适配器、CF卡