◄ **SuperPro M**

◄ **SuperPro 501S**

◄ **SuperPro 500P**

SUPERPRO 501S/500P/M

USB Interfaced, Ultra-High Speed, 48pin Economy Universal Device Programmer

- Ultra-fast speed with built in 32bit RISC MCU
- Two programmers in one: Supports Stand-alone Mode and PC Mode (SP501S only)
- Programs and verifies 64 Mb EEPROM at 43.4 sec
- Compact Flash card slot for project file storage (SP501S only)
- Programs devices with Vcc as low as 1.2V
- Can be clustered from 1 to N units for volume programming operation (SP501S only)

XELTEK

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SUPERPRO

Features:

- SuperPro 501S supports 34,000+, SuperPro 500P supports 28,000+, SuperPro M supports around 20,000 IC devices from 180+ 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.
  - o Under PC hosted mode, a PC controls the programmer via a high-speed USB2.0 connection to program a chip.
  - o 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. (SP501S only)
- ISP/ICP programming capability through optional ISP/ICP adapter.
- 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 XP/Vista and Win 7 32/64 bits
- 300+ universal socket adapters available
- Ideal for Engineering or field service use
- Operates from a car battery via use of a cigarette lighter power cord (Option)
- Includes the following advanced and powerful software functions:
  - o Chip operation starts immediately upon proper chip insertion in Production 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 production 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.
- CE certified and ROHS Compliant

Features:

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	

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 (Option, SP501S only)
- Power supply: AC Adapter: Input AC 90V- 250V, 50/60Hz; DC Output: 12V/2A; power 15W
- Main unit: Dimensions 80mm (L) * 57mm (W) * 30mm (h); Weight 1.35 lbs (0.6 kg) (SP501S)
- Main unit: Dimensions 70mm (L) * 52mm (W) * 15mm (h); Weight 0.85 lbs (0.4 kg) (SP500P)
- Package: Dimensions 130mm (L) * 110mm (W) * 50mm (H); Weight 4 lbs (1.8Kg) (SP501S)
- Package: Dimensions 150(L) * 120(W) * 30(H); Weight 3 lbs (1.4Kg) (SP500P)

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