SUPERPRO® 5000 / 5000E

Ultra-High Speed, Universal Device Programmer, USB 2.0 Interfaced and Built-in 144 Universal Pin Drivers

- Programs and Verifies 64 Mb NOR FLASH memory in 11.3 seconds and 1 Gb NAND Flash in 108 seconds
- Built-in 144 universal pin-drivers
- Supports more than 60,000+ IC devices from 200+ manufacturers
- Programs devices with Vcc as low as 1.2V
- Consists of 4 independent programming modules operating concurrently

XELTEK

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SUPERPRO®

Programming Speed:

- Supports 60,000+ IC devices from 200+ 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 and 1 GB NAND in 108 seconds.
- Built with 144 universal pin-drivers for support of today's most complex devices. Universal and device independent socket adapters are available for various packages up to 144 pins.
- 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
  - A CF (compact flash) card stores the project files.
- ISP/ICP programming capability through optional ISP/ICP adapter.
- In stand-alone mode, the user can operate multiple units to construct a concurrent multiprogramming system.
- One year free customer request algorithm update request. (SP5000 only)
- 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
- Vcc verification at (+5%~-5%) and (10%~-10%) enhances programming reliability.
- 400+ universal socket adapters are available (144 bottom pins)
- Ideal for Engineering and field service
- Operates from a car battery via use of a cigarette lighter power cord (Option)
- Includes the following advanced and powerful software functions:
  - Chip operation starts immediately upon proper chip insertion in Production Mode.
  - 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.
  - 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.
  - Log file provides production quality tracking.
- CE certified and RoHS compliant

Features:

Device	Program + Verify (Sec)	Type
K8P6415UQB	11.3	64Mb NOR FLASH
AM29DL640G	27.6	64Mb NOR FLASH
K9F1208U0B	67.4	512Mb NAND FLASH
KAP21WP00M	108	1Gb NAND FLASH
K9F1G08U0A	116.5	1Gb NAND FLASH
AT28C64B	0.9	64Kb EEPROM
24AA128	4.5	128Kb EEPROM
B25F640S33	30.4	64Mb EEPROM
AT89C55	7.5	20KB FLASH MCU
ST72F324BK4B5	3.8	32KB FLASH MCU
MB89F538	1.67	32KB FLASH MCU
UPD78F9234	8.8	16KB FLASH MCU

Hardware & Electrical Specifications:

- Devices Supported: EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR & NAND), 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: Requires Compact FLASH Card (Option)
- Power supply: AC Adapter: Input AC 100V- 240V; Output: 12V/2.0A
- Main unit: Dimensions 148(L) * 216(W) * 94(h) mm; Weight 3.5 lbs (1.6 Kg)
- Package: Dimensions 301(L) * 252(W) * 145(H) mm; Weight 6.2 lbs (2.8Kg)