



SUPERPRO® 7000

High-Speed Universal Programmer

- **Built-in ARM11 MCU processor improves eMMC programming speed by 10 times compared to SuperPro5000.**
 - Supports **eMMC / NAND files up to 256 GB.**
 - Supports **LR1 and LR2 eMMC modules up to 64 GB.**
 - **Customized 4socket gang adapter + Programming algorithm.** (Optional)
 - Built-in universal 144 pin-driver - New pin-driver technology provides a cleaner signal, wider voltage range and more accurate clock frequency.
 - Operates in **Local Area Network (LAN), Stand-Alone (no PC required)** or PC mode via high-speed USB2.0
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Features:

- SuperPro 7000 supports **13,500+ IC devices*** from **137+ manufacturers** and continuing.

New devices are continuously added to SuperPro7000 until the device library reaches over SuperPro6000 device count. Since the firmware is designed from scratch, new algorithms are written to support devices from current SuperPro5000/6000 device library. However, any device a user wants programmed could be added quickly.

- Built-in ARM11 MCU processor **improves eMMC programming speed by 10 times** compared to SuperPro5000.
- Supports **eMMC / NAND files up to 256 GB**.
- Supports Intel LR1 and LR2 eMMC modules up to 64 GB.
- Powerful new algorithm to program up to four chips simultaneously.
- Customized 4socket gang adapter + Programming algorithm. (Optional)
- New generation of pin-driver technology ensures higher reliability.
- Three operating modes:
 1. **PC mode** via USB2.0 port and PC communication.
 2. **Local Area Network (LAN)** mode for access to LAN local or remote control.
 - a) One or more units may be controlled by an operator for gang / cluster operation for volume programming. (Optional)
 - b) One unit may be shared by multiple users in a lab environment. (Optional)
 - c) A unit on the factory floor may be controlled remotely.
 3. **Stand-Alone mode (no PC required)**. Operates via built-in keyboard, LCD display and removable memory (SD card). Setup is flexible and simple to expand (1-15 units) for large volume production on the factory floor. Projects files (limited only by SD card capacity limit) are created online and downloaded into the SD card.

- Powerful yet user-friendly software features streamline operations, improve efficiency and reduce user mistakes during programming procedures. **Production mode** start chip operation upon proper chip insertion. **Project function** simplifies processes such as Device Selection, File Loading, Device Configuration Setting, Program Option, and Batch File Setting into one step. **Password** can be set for project files for volume production control. **Batch command** combines device operations like Program, Verify, and Security into a single command at any sequence. **Serial number generator** is available as standard or customer-specific functions. **Log file** is useful for quality tracking.
- Overvoltage / overcurrent and ESD protection to avoid programmer damage.
- Improved chip security mechanisms with built-in self-calibration.
- Automatic chip detection.
- Improved overvoltage / overcurrent and ESD protection to avoid programmer damage.
- Supports Windows XP / Vista / Win7.

Price: \$2495

Xeltek updates software and device algorithms regularly and upon customer's request. General algorithm upgrades are completed within a week.

*Device count as of December 2012. Please check the current device count at www.Xeltek.com.

Programming Time (Contact Xeltek)

Device	Program + Verify (Sec)	Type
K8P6415UQB		64Mb NOR FLASH
AM29DL640G		64Mb NOR FLASH
K9F1208U0B		512Mb NAND FLASH
KAP21WP00M		1Gb NAND FLASH
K9F1G08U0A		1Gb NAND FLASH
AT28C64B		64 Kb EEPROM
24AA128		128Kb EEPROM
B25F640S33		64Mb EEPROM
AT89C55		20KB FLASH MCU
ST72F324BK4B5		32KB FLASH MCU
MB89F538		32KB FLASH MCU
UPD78F9234		16KB FLASH MCU

Hardware & Electrical Specifications:

- Supported devices include (but not limited to) EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR & NAND), n, BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU.
- Packages supported (but not limited to) DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPII, PSOP, TSSOP, SON, EBGA, FBGA, VFPGA, uBGA, CSP, SCSP.
- NAND Flash library supports dozens of major platforms such as Samsung (XSR1.0/1.6), Qualcomm, HYNIX (H1FFS), MTK (Solution V1.1), ICERA (v1.0/2.0), ST (7162, 7141, etc.), AMLOGIC (the IF2 / 0), REALTEK PICOCHIP DataLight (Flash FX Pro), Marvell (310/303/920/935 ...), Broadcom, ZTE, Intel (CE4100), UBI, Leadcore LEADCORE The (L1809OG), MSATR.
- PC communication interface: USB2.0 (high speed), LAN (100 M).
- Memory storage: SD card.
- Ground wire socket.
- Keyboard and Display: 6-key membrane keyboard, 20 X 4 line LCD display.
- Power supply: DC 12V / 1.5A
- Programmer size: 184 x 160 x 78 (mm); Programmer Weight: 0.8Kg
- Package size: 310 250 x 145 (mm); packaging weight: 1.65Kg
- Operating temperature range :0-40 ° C
- Operating humidity range: 20% -80%