

Overview

SuperPro 6100 is a cost-effective, reliable, and high-speed universal chip programmer. It is designed to communicate using USB 2.0 port for development requirement and can also work in standalone mode (without connecting to a PC) for production requirement. It has the largest device support count in the programming industry with 144 pin drivers to support high pin count chips.

Application and target customers: Programming houses, electronic repair, car repair shops, forensic and data recovery companies, medical devices, requirement for larger device support.

Advantages

- **Ultra-Fast Programming Speed** Our semiconductor manufacturer approved algorithms, precision and clean signals guarantee high programming yield.
- **Largest Device Support** Located in Silicon Valley, we keep good relationships with many major IC companies that are important for us to continuously support new devices.
- **Built-In 144 Pin Driver** SuperPro 6100 is equipped with a built-in universal 144 pin driver to accommodate large pin count devices. One universal adapter accommodates all devices with the same package type.
- **Stand-Alone Mode** SuperPro 6100 is capable of operating in stand-alone mode. Under stand-alone mode, it can be operated by an inexperienced operator with minimal training.
- **Tester for Logic Devices and SRAMS** In addition to having a large device library, SuperPro 6100 programmer is also designed for IC testing of various devices such as TTL, CMOS Logic (74/4000 series), and SRAM memory devices.
- **Technical Support** Xeltek is proud to offer same day support for technical inquiries.

SuperPro 6100 comes with

- DX0001 DIP48 Socket Adapter
- Software CD
- AC Adapter
- USB Cable

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	
Package Types Supported	DIP, SDIP, PLCC, JLCC, PGA, LGA, SOIC, SOJ, SOT, QFP, TQFP, PQFP, VQFP, MQFP, LQFP, TSOP, SOP, TSOPII, PSOP, SSOP, TSSOP, SON, EBGA, FBGA, FTBGA, VFBGA, μ BGA, CSP, SCSP, QFN, HVQFN etc.	
PC Interface	USB 2.0	
PC Compatibility	Windows XP/Vista/7/8/10 (32/64 bit)	
Stand-alone Memory	Compact FLASH Card	
Power Supply	AC Adapter: Input AC 100V- 240V; Output: 12V/1.5A	
Dimensions	Main unit: 148(L) x 216(W) x 94(H) mm	Package: 301(L) x 252(W) x 145(H) mm
Weight	Main unit: Weight 3.5 lbs (1.6 Kg)	Package: Weight 6.2 lbs (2.8Kg)

PROGRAMMER FEATURES

- SuperPro 6100 supports 99,900+ IC devices from 371 manufacturers and continuing.
- 30% faster programming speed compared to SuperPro 5000 with ARM9 MCI-J Processor.
- Supports eMMC 1 NAND files up to 256 GB.
- Improved universal 144 pin-driver technology provides a cleaner signal, wider voltage range and more accurate clock frequency.
- Two operating modes:
 - PC mode via USB 2.0 port and PC communication.
 - Stand-Alone mode (no PC required).
- Cluster 1-15 units for volume production.
- Supports VCC from 1.2V to 5V.
- In-circuit programming capability available via ISP/ICP adaptor.
- Only IC manufacturer approved programming algorithms are used for high reliability. VCC verification at (+5% - 5%) enhances programming reliability.
- Free user requested device updates
- 2-year warranty



Advanced Software Features

SuperPro 6100 comes with a powerful and easy-to-use programming software. The biggest advantage is its simplicity so that any operator can operate the programmer with little or no training. SuperPro 6100 software is supported on Windows Vista, 7, 8, and 10.



Project Files The project file stores preparations before programming. Users could also restore and save work environment. The project file includes device type, buffer data, operation option settings, configuration bit setting and batch commands. Project files may be password protected to increase security and reliability when operated by untrained operators.



Auto Function The Auto function organizes different functions into a sequential group (erase, blank check, program, verify and protect). Functions are executed in sequential order similar to a batch command.



Production Mode Once a chip is inserted correctly, the programmer automatically starts batch command of erase, blank check, program and verify. Auto chip detection saves time and increases efficiency.



Production Statistics A log file could be used to save operation information before exiting the program. Log files can also be used to facilitate quality tracking.



Auto Recognition of File Types We support almost all kinds of known file formats including file formats with automatic recognition function: Binary, Intel (linear & segmented) Hex, Motorola S, Tektronix (linear & segmented), JEDEC, POF, etc.



Factory Mode This mode is designed for factory volume production. To prevent operation errors from destroying the chips and wrong data written to the chip, SuperPro 6100 will operate in the Auto function mode. The administrator can set a password to prevent unauthorized access to the system.



Auto Increment of Serial Numbers Auto-generation of electronic serial numbers is available on SuperPro 6100. This feature is implemented by setting [Auto Increment in Operation Option](#). Auto Increment allows users to add unique serial number into the device. After each successful programming, the software automatically changes the value by the specified increment mode.



Intellectual Property Protection Password settings available in both PC and stand-alone mode.

SUPERPRO/6100

USB2.0 Interfaced Ultra-high Speed Stand-alone Universal Device Programmer



Features:

- Until now, Support 326 IC manufacturer, 90975 pcs devices and keeps growing.

Features:

- Supports 87454 types of devices from 305 IC manufacturers (by 3/15/2013) and keeps growing.
- Supports EPROM , Paged EPROM , Parallel and Serial EEPROM , FPGA , PROM , FLASH(NOR & NAND) , BPROM , NVRAM , SPLD , CPLD , EPLD , Firmware HUB , Microcontroller , MCU . Supports devices with Vcc as low as 1.2V. Socket Adaptors available for DIP , SDIP , PLCC , JLCC , PGA , LGA , SOIC , SOJ , SOT , QFP , TQFP , PQFP , VQFP , MQFP , LQFP , TSOP , SOP , TSOPII , PSOP , SSOP , TSSOP , SON , EPGA , FBGA , FTBGA , VFBGA , μ BGA , CSP , SCSP , QFN , HVQFN etc.
- High programming speed .
- Built with 144 universal pin -drivers , Universal adaptors are available for varies packages up to 144 pins . Quick new device support.
- Popular NAND FLASH Platform supported including Samsung (XSR1.0/1.6) , Qualcomm , HYNIX (H1FFS) , MTK(Solution V1.1) , AMLOGIC(IF2/0) , REALTEK , PICOCHIP , Data Light(Flash FX Pro) , Marvell(310/303/920/935/etc) , BroadCom , ZTE , Intel (CE4100) , UBI , LEADCORE(L1809 OG) , MSATR etc . Customer-specific NAND solution available .
- PC hosted mode and stand-alone dual modes. Under PC hosted mode the programmer is controlled by a PC via USB2.0 (high speed) to program a chip. Under stand-alone mode the programmer is controlled via a 6 - KEY keypad and a 20 character by 4 line LCD display. A CF card is used to store the project files.
User can operate multiple units to construct a concurrent multiprogramming system thank for the stand-alone mode.
- ISP/ICP programming capability available via ISP/ICP adaptor.
- IC manufacturer approved programming algorithms are used for high reliability.
- Testing functions for logic devices.
- Advanced and powerful software functions.

Production mode starts chip operation at the moment the chip is inserted in the socket properly.

Project function simplifies processes such as device selection, file loading, device configuration setting, program option, and batch file setting into one touch step.

Password can be set for project files and production volume control

Batch command combines device operations like program, verify, security into a single command at any sequence.

Dynamic buffer makes it possible that each chip is programmed with different data file.

Applications including serial number, MAC address etc.

Log file is useful for quality tracking.

- Many safety mechanisms are built including self-diagnosis, wrong chip placement detection, poor-pin-contacting detection, ID checking, over-current and over-voltage protection etc.
- Windows XP / Vista / Win7 / Win8 compatibility.

Volumn Production Solution:

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. 256 MB size is recommended .



Device Updates:

- XELTEK updates software and device algorithm regularly.
- View the latest [Device List](#) .
- [Download the current software version](#) free of charge .
- Updates are available by mail at a nominal charge.
- XELTEK also adds devices upon customer's request at its option.

Warranty Support:

- Programmer is warranted to be free of manufacturing or workmanship defects for one year from the date of purchase.
- [Online Technical Support](#) is also available 24 hours or you may call us during our business hours through Friday 8:30am to 5:30pm (Beijing Time) .

Hardware & Electrical Specifications:

- Supported devices: 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: 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
- Stand-alone Feature: Supported, Compact FLASH Card .
- Electrical spec. of the AC adapter: AC input 90 V to 250 V, 50/60Hz, DC output 12V/2A; power: 15W
- Mechanical parameter: Main unit: Size: 216 * 148 * 94 mm Weight: 1.6 Kg.
- Packing Box: Size 301 * 252 * 145 mm Weight: 2.8 Kg.

Accessories:

- Main unit with a DIP48 adaptor, AC adaptor, USB2.0 cable, user manual, software CD, register card
- Optional accessories: Adaptor in various packages, CF card for stand-alone operation.