# SuperPro 6104GP

Ultra-High Speed Universal Gang Programmer

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## PROGRAMMER FEATURES

- Built with 4 x universal 144-pin drivers that is compatible with various package types
- In-system programming (ISP/ ICP) capability
- Support devices with Vcc from 1.2V – 5V
- Support files up to 256 GB
- Over-current and over-voltage protection for safety of the chip and programmer hardware.
- Compatible with Windows XP/ Vista/ 7/ 8/ 10 (32/ 64 bit)
- Only IC manufacturer approved programming algorithms used for high reliability
- 2-year warranty

## Overview

SuperPro 6104GP is a cost-effective, reliable, and high-speed universal chip programmer. It is designed to communicate using USB 2.0 port for development 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** Supports more than 99,800 devices, which is the largest device library in the programming industry. Requested device algorithms can be added within a week.
- **Built-In 144 Pin Driver** SuperPro 6104GP 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.
- **Concurrent Programming for High Efficiency** 4 independent programming modules based on SuperPro 6104GP with its own MCU, memory, and pin-drivers for fast and reliable operation
- **Multi-Chip Programming** Each chip may be programmed with different data such as configuration and calibration information. Each programming module can also program different chips simultaneously.
- **Easy Repairs** Modular construction of hardware allows for continuing operation when a part of the circuit becomes inoperable. It also makes service quick and easy.
- **Tester for Logic Devices and SRAMS** In addition to having a large device library, SuperPro 6104GP 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 6104GP comes with

- 4 x DX0001 DIP48 Adapters
- Software CD
- AC Adapter
- USB Cable

### Specifications

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|---|---|---|
| **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, µBGA, CSP, SCSP, QFN, HVQFN etc. | |
| **PC Interface** | USB 2.0 | |
| **PC Compatibility** | Windows XP/Vista/7/8/10 (32/64 bit) | |
| **Power Supply** | AC Adapter: Input AC 100V- 240V; Output: 12V/1.5A | |
| **Dimensions** | Main unit: 438 x 216 x 94 mm | Package: 501 x 252 x 145 mm |
| **Weight** | Main unit: Weight 9.4 lbs (4.3 Kg) | Package: Weight 19.5 lbs (8.9Kg) |

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## Advanced Software Features

SuperPro 6104P 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 6104P 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 sued 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 6104P 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 6104P. 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 PC mode.