

## SuperPro IS01

### Stand-Alone Universal In-System Programmer



### PROGRAMMER FEATURES

- Supports ISP Programming: Compatible with devices using I2C, SPI, CAN, UART, BDM, MW, JTAG, and other serial ports.
- On-Board Memory: Includes built-in Flash memory and an SD card slot.
- User Interface: Equipped with an LCD display and keypad for stand-alone operation. Customized BIOS and user interface provided.
- Power Supply: Comes with an external AC power adapter to power the programmer and target device. No power is applied from the target equipment.
- Third-Party Integration: DLL or Virtual Com communication command set available (optional).
- Safety: Over-current protection circuit limits power to the target device.
- Identification: Serial number is stored within the built-in flash memory and displayed upon power-on.
- Warranty: Includes a 2-year warranty.

### Overview

The SuperPro IS01 is a professional, multi-function serial programmer, renowned for its compact size, fast programming speed, and excellent reliability. Offering high-cost performance, it supports nearly all serial programmable devices, making it ideal for both in-system and in-application use. Designed to communicate via a USB 2.0 port for development needs, it also operates in standalone mode for production requirements, eliminating the need for a PC connection.

### Advantages

- **Ultra-Fast Programming Speed** Our semiconductor manufacturer-approved algorithms, combined with precision and clean signals, ensure a high programming yield. The algorithms are executed using state machine architecture constructed with FPGA, achieving ultra-high programming speeds.
- **Largest ISP Device Library** The SuperPro IS01 supports over 10,000 devices, the largest library in the serial programming industry. It is compatible with all common ISP protocols such as I2C, SPI, UART, BDM, MW, JTAG, CAN, and RS232
- **Longer Cable Length with Adjustable Speed** The SuperPro IS01 is equipped with an ISP cable that can program a target board up to 3 feet (1 meter) away. VDD (0-5.5V / 0.5A) and Vpp (0-15V / 0.2A) lines are provided to power the target board and devices.
- **Mass Production Mode** The SuperPro IS01 features a mass production mode where it starts functional operations automatically upon detecting that the target board is ready and receives an ISP signal, eliminating the need for keyboard operation. TPIN and TPOUT in the ISP port facilitate this feature, with TPOUT supplying high level and TPIN acting as the level detection input line.
- **Multi Programming** Up to 12 programmers can be connected to a single PC for programming multiple PCBs, or all programmers can operate in stand-alone mode.
- **Technical Support** Xeltek offers same-day support for technical inquiries, ensuring prompt and effective assistance.

### SuperPro IS01 comes with

- ISP Cable
- AC Adapter
- USB Cable
- SD Card for stand-alone operation

### Specifications

ISP Protocol Supported	All common ISP protocol i.e. I2C, SPI, UART, BDM, MW, JTAG, CAN, RS232 (Contact Xeltek for more details)	
PC Interface	USB 2.0	
PC Compatibility	Windows 11 (32/64 bit)	
Power Supply	AC Adapter: Input AC 100V- 240V; Output: 12V/1.5A	
Dimensions	Main unit: 137(L) x 87(W) x 45(H) mm	Package: 304(L) x 228 (W) x 76(H) mm
Weight	Main unit: 0.34kg (0.75 lbs)	Package: 1.36kg (3 lbs)





## Advanced Software Features

SuperPro IS01 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 IS01 software is supported on Windows 11.



**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.



**Project Group:** Operate Multiple Project Files in Batch Mode Multiple chips could be programmed simultaneously using the Project Group feature on the SuperPro IS01 software. Project Group organizes batch running of multiple projects and is available on all SuperPro IS01 models.



**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.



**LabVIEW** Integrating SuperPro IS01 onto an existing LabVIEW environment is a simple task. Previously, users had to purchase DLL functions and create a set of custom VIs for integration, taking days and resulting in expensive engineering time. The LabVIEW driver package is ready to be used in the test program with very little need of coding and customization. Standard LabVIEW driver is available for download.



**XPlayer** SuperPro IS01 supports JAM, SVF and Staple files from ACTEL, Xilinx and ALTERA. SuperPro IS01 also supports Direct C files from ACTEL. STP or JAM files can be generated using design tools such as ISE and Quartus II.



**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.



**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 IS01 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 IS01. 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.