XELTEK
SuperBOT Automated Equipment Company

SuperPro 6100N

High Speed Stand-Alone Universal IC Programmer

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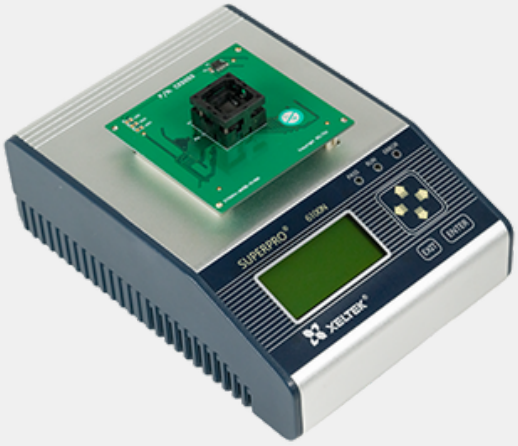

PROGRAMMER FEATURES

- Extensive Device Support: The SuperPro 6100N supports over 100K+ IC devices from 371 manufacturers, with continuous updates.
- Enhanced Speed: Features a 30% faster programming speed compared to the SuperPro 5000, thanks to the ARM9 MCU-J Processor.
- Advanced Pin-Driver Technology: The improved universal 144 pin-driver technology ensures cleaner signals, a wider voltage range, and more accurate clock frequencies.
- Two Operating Modes:
- PC Mode: Via USB 2.0 port and PC communication.
- Stand-Alone Mode: Operates independently without a PC.
- Volume Production: Cluster 1-15 units for high-volume production.
- Voltage Support: Supports VCC from 1.2V to 5V.
- In-Circuit Programming: Capability available via ISP/ICP adapter.
- High Reliability: Utilizes only IC manufacturer-approved programming algorithms. VCC verification at (+5% to -5%) enhances programming reliability.
- Free Updates: User-requested device updates are provided at no additional cost.
- Comes with a 2-year warranty.

Overview

The SuperPro 6100N is a versatile and high-speed universal chip programmer, designed to meet both development and production requirements. Communicating via USB 2.0 for development, it can also operate in standalone mode for production without needing a PC connection. It boasts the largest device support count in the programming industry, with 144 pin drivers to support high pin count chips.

Advantages

- **Ultra-Fast Programming Speed:** Our semiconductor manufacturer-approved algorithms, combined with precision and clean signals, ensure a high programming yield.
- **Largest Device Support:** Based in Silicon Valley, we maintain strong relationships with major IC companies, allowing us to continuously support new devices.
- **Built-In 144 Pin Driver:** Equipped with a universal 144-pin driver, the SuperPro 6100N accommodates large pin count devices with a single universal adapter for all package types.
- **Stand-Alone Mode:** Capable of operating independently, the SuperPro 6100N can be used by inexperienced operators with minimal training, making it highly user-friendly.
- **Tester for Logic Devices and SRAMs:** In addition to its extensive device library, the SuperPro 6100N is designed for IC testing of various devices, including TTL, CMOS Logic (74/4000 series), and SRAM memory devices.
- **Technical Support:** Xeltek offers same-day support for technical inquiries, ensuring prompt and effective assistance.

SuperPro 6100N comes with

- 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, µBGA, CSP, SCSP, QFN, HVQFN etc.	
PC Interface	USB 2.0	
PC Compatibility	Windows 11 (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)

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Advanced Software Features

SuperPro 6100N 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 6100N 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.

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 fromB destroying the chips and wrong data written to the chip, SuperPro 6100N 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 onBSuperPro 6100N. This feature is implemented by setting Auto Increment in Operation Option. AutoBIncrement allows users to add unique serial number into the device. After each successful programming,Bthe software automatically changes the value by the specified increment mode.

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

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