XELTEK
SuperBOT Automated Equipment Company

SuperPro 6104NGP

Ultra-high Speed Universal Gang Programmer

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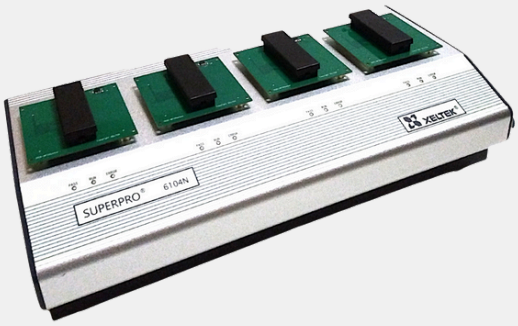

PROGRAMMER FEATURES

- Universal Compatibility: Equipped with 4 SuperPro 6100N universal 144-pin drivers, compatible with various package types.
- Wide Voltage Range: Supports devices with Vcc from 1.2V to 5V.
- Large File Support: Handles files up to 256 GB.
- Safety Features: Includes over-current and over-voltage protection to ensure the safety of both the chip and programmer hardware.
- OS Compatibility: Windows 11 (32/64 bit).
- High Reliability: Utilizes only IC manufacturer-approved programming algorithms.
- Enhanced Reliability: Vcc verification at +5% ~ -5% and +10% ~ -10% ensures high programming reliability.

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ELEKTRONİK
SANAYİ VE TİCARET LTD.ŞTİ.

Overview

The SuperPro 6104NGP is an affordable, reliable, and high-speed 4-gang universal chip programmer designed to meet a wide range of programming needs.
Utilizing USB 2.0 communication, it caters to development requirements with ease. Boasting the largest device support count in the programming industry and equipped with 144 pin drivers, it supports high pin count chips seamlessly.

Ideal For: Programming Houses, Electronic Repair Shops, Car Repair Shops, Forensic & Data Recovery Companies, Medical Device Manufacturers and any Application Requiring Extensive Device Support
Choose the SuperPro 6104NGP for unparalleled versatility and efficiency in your programming tasks.

Advantages

- **Ultra-Fast Programming Speed**: Our semiconductor manufacturer-approved algorithms ensure precision and clean signals, guaranteeing 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. Supports over 103K devices with continuous updates as new chips are released.
- **Built-In 144 Pin Driver**: The SuperPro 6104NGP features a built-in universal 144-pin driver to accommodate large pin count devices, with one universal adapter supporting all devices of the same package type.
- **Technical Support**: Enjoy complimentary assistance and device requests. Xeltek Programmers must be purchased exclusively through Xeltek or authorized distributors.

SuperPro 6100N comes with

- 4 DX0001 DIP socket Adapters
- 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: 438(L) x 216(W) x 94(H) mm	Pacage:501(L) x 252(W) x 145(H) mm
Weight	Main unit: Weight 9.4 lbs (4.3 Kg)	Package: Weight 19,5 lbs (8.9 Kg)

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Advanced Software Features

SuperPro 6104NGP 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 6104N 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 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 settings and batch commands. Project files may be password protected to increase security and reliability when operated by untrained operators.

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 functions: 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 chops and wrong data written to the chip, SuperPro will operation 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 6104NGP. 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.

Ultra Fast Programming Speed SuperPro 6104NGP is designed with high programming speed in mind. Our semiconductor manufacturer approved algorithms, precision and clean signals guarantee high programming yield. Special design was made to eliminate overshoot and ground bounce. Algorithms are performed with state machine architecture constructed with FPGA to achieve a ultra-high programming speed.

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. SuperPro 6104NGP currently 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 - average lead time from other manufacturers is over two months.

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