

SUPERPRO® IS03: Advanced ISP Production Programmer

SUPERPRO® IS03 is a new model in the ISP programmer family with the following features:

- 1) Program up to 16 serial devices simultaneously.
- 2) Up to 4 parallel ISP chips can be programmed simultaneously (eMMC, NAND and NOR FLASH)
- 3) Multiple programmers can be set up for project expansion
- 4) Custom adapter available for off-line production setup
- 5) USB2.0, LAN and SD ports available
- 6) Operation modes: USB online, network online and off-line
- 7) Adjustable programming speed and industrial grade reliability
- 8) DLL/API/Command-Line Commands available with authorization agreement from both parties

(This is an initial solution for integrating ISP sub-systems of ICT, FCT, ATE and testing fixture.)



Features

- High-speed ISP production programmer with industrial grade quality. The ultimate choice for integrating ISP sub-systems.
- Supports almost all serial chips which include, but not limited, SPI,I2C,JTAG, BDM,UART,MON,SCI,SWD, SBW,C2D,ICC,SWIM,SDQ,DBG,ICE,CSILIN. Supported manufactures include, but not limited, ABOV,Ali, Altera,Atmel,Catalyst,Cypress,Freescale,Fujitsu,Haier,Hitachi,Hynix,Infineon, IR,ISSI,Lattice,Macronix,Maxim,Microchip,Micron,NEC,Numonyx,NXP,ON,P anasonic,Renesas,Rohm,Samsung,Sanyo,Silicon,Labs,Spansion,SST,ST, Teridian, TI, Toshiba, Winbond, Xilinx, Zilog
- Programs up to 16 serial chips or 4 parallel NAND,NOR,eMMC chips simultaneously
- Support ISP serial programming to multiple chips of different models or types in one unit
- General control ports supply signal isolation, relay isolation, power supply control, click detection, LED expansion display and other control signals.
- High-speed programming with adjustable speed meets board load requirement or ISP cable length.
- Three modes: 1) Online mode. Connected to local PC by USB2.0(high speed) 2) Off-line mode. Using the stand-alone keyboard, LCD display, and mobile memory (standard SD cards), SuperPro IS03 can run independently off-line for flexible production and field setup. Project file size is only limited by the SD card memory size. 3) Network mode. Connected to local network, control locally or remotely.
- Advanced pin-driver technology supplies cleaner signals, wider voltage range and accurate / higher clock frequency. Precise time generators ensure devices with 1.2V-5.0V Vcc higher speed and qualified product ratio.
- Chip safety security mechanism: the built-in precise voltage self-calibration circuit ensures the voltage is within the preset range at any time. The self-diagnosis function continuously detects hardware fault to ensure the machine run normally.
- Over-current, over-voltage and ESD protection avoids damaging the programmers.
- Powerful DLL, API, Command-Line Commands support Visual C, Visual Basic, Linux and Labview. SuperPro IS03 is easily integrated with ICT, FCT, ATE or testing fixture systems.
- Powerful software system with user-friendly interface: simplifies operation, improves efficiency and reduces mistakes.
 - 1) **Project**. Simplifies processes such as device selection file loading, device configuration setting, program option, and batch file setting into one step.
 - 2) **Project Group**. Organizes batch processing commands for multiple projects running simultaneously.
 - 3) **Super Scale Project Group**. Complicated PCBA or multiple combined PCBAs may need multiple programmers to work properly. The Super Scale Project Group is responsible for the work flow across multiple programmers.
 - 4) User operation interface is shown by PCBA.
 - 5) **Auto Commands**. Permit users to create a one-step command to execute common commands such as erasing, space-checking, programming and verification.
 - 6) **Production Mode**. Initiated by an external Start signal. Once the clamp is closed, the system runs automatically. As an off-line programmer, once the chips are inserted correctly into the sockets, Auto Commands will run automatically.
 - 7) **Dynamic Buffer**. Every chip may have different data to be written, and software can adjust by Xeltek per user's request (i.e. standard and customized series number generator – for MAC address).
 - 8) Log document and production statistics function facilitates quality-tracking.
 - 9) Copyright Protection with SD encryption, document right management and encryption, output limitation and remote control.
 - 10) **Expansion**. Users can control up to 12 machines simultaneously with a USB HUB or LAN SWITCH.

- 11) Support JAM/STAPL Player and Direct C
 - 12) Support and recognize almost all known formats automatically
 - 13) **Barcode management**. Upload documents by scanning order barcodes to eliminate manual mistakes.
 - 14) Customized special functions and algorithm software available.
 - 15) Web Programmer + Network management software (optional) create a revolutionary network writing management mode. Project setting, task switching and software updating for all programmers can be finished instantly on a server while quality-monitoring and QC statistic can be done in real time. Such mistakes as empty-writing can be tracked, and the written data is saved only on local or remote servers for data safety.
- Using a customized socket adapter, SuperPro IS03 can be used as an off-line production programmer, and programs up to 4 chips simultaneously.
 - Compatible with WINDOWS 8/7/VISTA/XP

Applications

Ability to integrate with ATE, FCT,ICT and Test Fixtures using ISP functions is suitable for the automotive industry.

Charge Mode for SUPERPRO IS03

- The design of SuperPro IS03 and its application is meant to reduce cost. Depending on ISP project complexity, specific projects may require additional support and the following charges:
 - 1) Authorization fees for device algorithm software
 - 2) Project fees, including designing and consultation
 - 3) Authorization fees for DLL / API/Command-Line Commands, including above software and implementation consulting fees, mainly for further development and integration.

Electrical and Mechanical Specification

- PC interface: USB2.0(high speed), LAN(100M)
- Off-line memory media: SD card
- Keypad and Display: 6-key keyboard, LCD display with 40 digits x 4lines
- Power Supply: DC 12V /1.5A. Power adapter
- Main Unit: Dimension: 184 x 160 x 78 (mm); Weight: 0.8Kg
- Package: Dimension: 310 x 250 x 145 (mm); Weight: 1.65Kg
- Temperature: 0-50°C. Humidity: 20%-80%

Items Included

- Standard: one main unit, one DC 12V /1.5A power adapter, one USB cable
- Optional: ISP signal cable, ISP control cable, SD card, network cables, off-line adapter.

