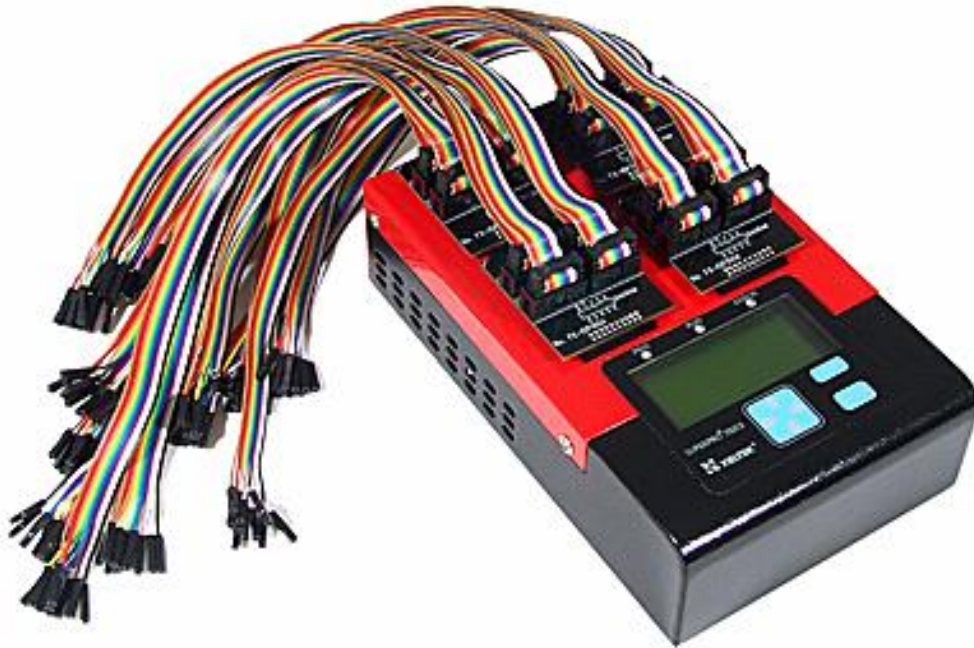


SuperPro® IS03: Advanced ISP Production Programmer

SuperPro® IS03 is a new model in the ISP programmer family with the follow features:

- 1) Programs 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 interfaces
- 6) Operation modes: USB, network and stand-alone
- 7) Adjustable programming speed and industrial grade reliability
- 8) DLL/API/Command-Line Commands available under license for integration with ICT, FCT, ATE and testing fixture.



Features

- High-speed ISP production programmer with industrial grade quality. The ultimate choice for ultimate programming capability integration of ICT, FCT, ATE and test fixture.
- Supports almost all serial devices including, but not limited to SPI,I2C,JTAG, BDM,UART,MON,SCL,SWD, SBW,C2D,ICC,SWIM,SDQ,DBG,ICE,CSI and LIN. Supported manufactures include, but not limited to 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 devices or 4 parallel NAND,NOR,eMMC devices simultaneously
- Support ISP programming to multiple chips of different types in one PCB board serially
- System control port available for control of signal isolation, relay barrier, target power and fixture close sensing, LED expansion, etc.
- High and adjustable programming speed for varied target board requirements.
- Three operation modes: 1) Online mode. Connected to local PC by USB2.0(high speed) 2) Stand-alone 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 frequency synthesizer and voltage generator ensure 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 running of multiple projects.
 - 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 workflow across multiple programmers.
 - 4) **Customer specific operation interface** is available.
 - 5) **Auto Commands**. Permit users to create a one-step command to execute common commands such as erasing, blank check, program and verify.
 - 6) **Production Mode**. Initiated by an external start signal, generally the signal of Fixture Close. Once the signal is detected, the system runs automatically. Once the clamp is closed, the system runs automatically.
 - 7) **Dynamic Buffer**. Every chip may have different data to be written. The software can manage the changing of the data from chip to chip per the rule user requests. One well-known example is the MAC address.
 - 8) **Log document and production statistics function** facilitates quality-tracking.
 - 9) **Copyright Protection** with SD encryption, project file encryption and access control, volume control and remote control.
 - 10) **Expansion**. Users can control up to 12 machines with one GUI via a USB hub or LAN switch.

- 11) **Support JAM/STAPL Player and Direct C**
- 12) Support and recognize almost all known **file formats** automatically
- 13) **Barcode management**. Fulfill all setup tasks by scanning barcode on the job sheet.
- 14) **Customized special functions and algorithm** software available
- 15) Compatible with Windows 8/7/VISTA/XP

Applications

Ability to integrate with ATE, FCT, ICT and Test Fixtures; Core of ISP station. General ISP gang programming; Tool of firmware in-system update; Field service and repairing tool for electronic equipment like automotive and air conditioners.

ISP Advantages

- High production rate due to parallel programming of multi-board panels.
- Automated programming easily implemented
- No risk of data loss in the SMT process due to heat-shock
- Shorten lead time and reduce inventory expense
- No replacement of pre-programmed device on board is needed when firmware or software update is required

Additional Charge May Apply

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 may apply:

- 1) Authorization fees for device algorithm software
- 2) Project fees, including designing and consultation
- 3) Authorization fees for DLL / API / Command-Line commands

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 AC Adapter, one USB cable, 4 ISP cables
- Optional: ISP cable, system control cable, SD card, LAN Cable.

