

StarProg-A

Universal On Board (ICP/ISP) Programmer

StarProg-A supports MCU, CPLD, SPI NOR Flash, SPI NAND Flash, and EEPROM on board programming (ICP/ISP). It is optimized for the integration of automated machines and can be easily used in development and mass production.

Features

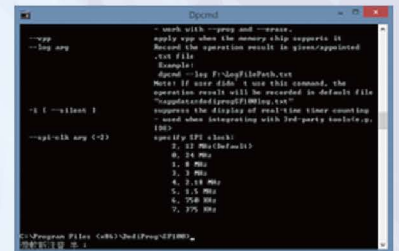
- ◆ Support 1.2V ultra low voltage IC & 1.8V low voltage IC
- ◆ Support several kinds of ISP Protocols
 - SWD, JTAG, SPI, I2C, BDM, UART, and SWIM...etc.
- ◆ Support various IC families
 - MCU, CPLD, SPI NOR Flash, SPI NAND Flash, and EEPROM.
- ◆ Support a variety of file formats
 - Binary, Intel Hex, Motorola, and ROM...etc.
- ◆ Support Stand-alone mode
 - Able to program without connecting to a computer.

Advanced Features

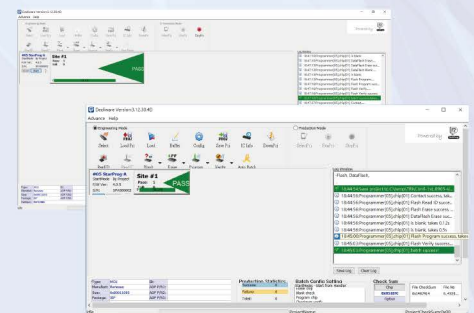
1. Palm Size.
2. Provide Command Line, labview driver, and DLL API (support serialization and unique key programming) for redevelopment and integration.
- ◆ Optimized for automated machines.
 1. Boot up quick self-test.
 2. Signal enhancements allow much longer signal cable lengths for integration.
 3. Voltage and frequency control through software can stabilize the programming signal.
 4. The ATE Port in the ISP adaptor makes remote control available via Busy/Pass/Error and Start pins.
 5. Various standard adaptors are available, and programmable ICs can be programmed through online, offline or stand-alone, and can quickly clarify and eliminate the production problems.
 6. Support multiple programmers to program ICs (same file).



Software Interfaces



Graphical User Interface





StarProg-A

Specifications

Hardware

Architecture
 Socket Adaptor
 Programming Protocol
 Communication Interface

ARM and FPGA architecture with high-capacity SDRAM
 ISP Adaptor or IC Socket Adaptor (Optional).
 SWD, JTAG, SPI, I2C, BDM, UART, and SWIM...etc.
 The programmer provides a USB 2.0 interface. The ATE interface is provided by the ISP adaptor.

Built-in Buffer
 Operation Interface
 Protection Mechanism

256MB
 Busy/Pass/Error LED and Start button.
 Overcurrent and ESD protection

Vcc Range
 Vcc Current Limit
 Vpp Range
 Vcc Current Limit
 Support IC Category

1.8~5V
 200mA
 5V~12V
 60mA
 MCU, CPLD, SPI NOR Flash,
 SPI NAND Flash, and EEPROM.



Software

Operating Software
 Operating System
 Support File Format
 Programming Function
 Special Features

Dedeware
 Windows XP/Vista/7/8/8.1/10
 Binary, Intel Hex, Motorola, and ROM.
 Erase, Blank Check, Program, Verify, Option/Protection.
 a. Multiple StarProg-A programming
 b. Serial number programming (requires PC)
 c. Unique key file programming (requires PC)
 d. Log data Automatic output (requires PC)

Power

USB 5V or DC 5V

Dimension

108mm*67mm*20mm

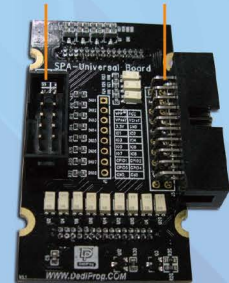
Weight

70g

Standard Package

1. StarProg-A IC programmer x1
2. USB cable x 1
3. AC 100~240V to DC 5V/1A power supply x1
4. ISP Adaptor (SPA-Universal Board) x 1
5. ISP Cable (ATE-SP-CB-20) x 1
6. CD-ROM (including Dedeware and User Manual) x1

ATE Port ICP



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