StarProg-ATE

Engineering Universal ICP/ISP Programmer

StarProg-ATE

Engineering universal IC programmer
supports a variety of IC on the market,
like EEPROM, SPI Flash, Microcontroller, CPLD...etc.
StarProg-ATE also provides users detailed Command Line
for software redevelopment, so users can easily integrate
StarProg ATE with 3rd party automation.

Features

● **High speed programming**

Built in high speed processor to achieve high programming speed
Timing reference (P+V):

W25Q64FVSSIG(64Mb)	23s	STM32L151xB(128KB)	20s
24LCS22A(2Kb)	1s	nRF51822	6s

● **Support various IC families**
EEPROM, SPI Flash, Microcontroller, CPLD, FPGA, etc.

● **Support several kinds of ISP protocol**

SPI, I²C, BDM, SWD, JTAG, UART, SWIM, etc.

● **Equipped ISP and ATE Cables**

StarProg-ATE is equipped with ISP and ATE cable and is able to control
voltage and frequency through the software for stablization

● **Support a variety of file formats**
Binary, Intel Hex, Motorola, ROM, etc.

● **Provide detailed Command Line**
Provide detailed Command line for software redevelopment

● **Support Stand-alone mode**

Start stand-alone programming directly after insert the SD card.

● **Provide ATE Port for system integration**
1. ATE port can integrate with automation system and use Opto-isolation
to send signals to reduce noise.
2. Users can save maximum of 8 projects to SD card.

● **Support 1.8V low voltage IC**

● **Unlimited number of StarProg-ATE can be driven by 1PC**

Multiple StarProg-ATE

3rd party ATE   StarProg-ATE
Provide Command Line

Dediprog Technology

StarProg-ATE
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Hardware

Architecture	ARM and FPGA architecture
Programming Interface	ICP Connector
ISP Protocol	SPI, I²C, BDM, SWD, JTAG, UART, SWIM, etc.
Communication Interface	High Speed USB 2.0 (480MB/sec)
External Memory Card	4GB micro-SD card
Operation Interface	Busy/Pass/Error LED, Start key, and ATE Port
Hardware Protection	Overcurrent and ESD protection
Vcc	1.6~5V
Current limitation on Vcc	~300mA
Vpp	1.6~12V
Current limitation on Vpp	~100mA
Supported IC	EEPROM, SPI Flash, Microcontroller, CPLD, FPGA

Software

Operation Software	Dediware
OS Supporting	Windows XP / Vista / 7 / 8 / 8.1 /10
File Typed Supported	Binary, Intel Hex, Motorola, ROM, etc
Programming Function	Erase, Blank Check, Program, Verify, Option/Protection
Extra Function	Multiple StarProg-ATE, serial number, Unique key (ex. HDCP) programming (needs to connect to a PC), and stand-alone programming

Operation Environment

Temperature	+5°~+40°C
Humidity	20%~70%

Power

USB 5V or DV 5V/1A

Dimension

135mm*75mm*17mm

Weight

101g

Standard Accessories

1. StarProg-ATE main unit *1
2. USB Cable *1
3. AC Power Adaptor *1
4. 4GB Micro SD Card *1
5. ATE Cable *1
6. ISP Cable *1
7. CD-ROM (Include Deiware and user manual) *1