



# ALL-100A/AP Universal & Gang Programmer

A high performance programmer for both engineering & production

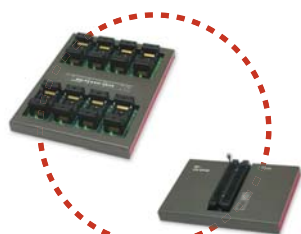
## Introduction

ALL-100A programmer is a revised version of ALL-100 programmer. Major enhancements include: The revised core processor with built-in 8K-byte cache speeds up programming time by 10% ~ 50%; The regulated device supply voltages further improve IC programming stability; The new USB processor further speeds up and stabilizes data link / transfer.

ALL-100A/AP programmer has 48/68 sets of Precise Universal Pin Driver to provide high speed, low noise, accurate and reliable programming signals for various IC products including high speed low power devices recently released to market.

ALL-100A/AP can be setup for either single-site programming for engineering or multi-site programming for production. If required, up to 8 sets of ALL-100AP can be setup for multi-set operation so up to 64 sites can be programmed simultaneously to maximize production.

The supporting software is updated weekly on web site for check / retrieve through Internet. Programming of new products will not be neglected after purchasing.



Prog. Module



ALL-100A  
Base Unit



ALL-100A

## Features & Benefits

- Excellent performance :  
ALL-100A's high freq. core circuit design significantly cut down programming time for around 10% ~ 50%. Precise Universal Pin Drivers provide high speed, low noise, accurate and reliable programming signals for various IC products including high speed low power devices recently released to market.
- Wide range of IC coverage :  
ALL-100A supports wide range of IC products including EPROM, EEPROM, Serial PROM, SPI memory, FLASH, MPU/MCU product types and DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA package types.
- Easy to setup, operate and maintain :  
ALL-100A setup and operation can be done easily by connecting Programmer to PC with Windows 2000 / XP / Server 2003 / Vista through USB port, load data file or read Master IC, then select functional options (Program, Verify, Auto...etc.) to start programming. The self-diagnostic utility makes programmer easy to checkout / maintain.
- High expansion flexibility :  
From development / engineering stage using ALL-100A single-site programming to limited production stage using ALL-100AP multi-site / multi-set programming, further to mass production stage using AT3-3XX automated programming, high expansion flexibility of programming platform is well prepared in advance.
- Timely supporting software :  
The supporting software is updated weekly on web site for check / retrieve through Internet. Programming of new products will not be neglected after purchasing.
- World wide service :  
Distribution channel covers 35 countries worldwide, all inquiries / problems can be served easily and timely.

## Specifications

- Core controller  
16 bits high freq. core control circuit with big sized FPGA & CPLD
- Key functions  
Load File, Read Master, Program, Verify, Auto, ID Check, Checksum, Blank Check, Erase, Security, Protect / Unprotect, Edit, Function Configuration, Self Test.
- Support devices  
IC types : EPROM, EEPROM, Serial PROM, SPI memory, FLASH, MPU/MCU...etc.  
IC packages : DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA...etc.  
IC leads : 8 pins ~ 300 pins
- Device contact  
Default : DIP48 ZIF single socket on Programming Module  
Others : Dedicated sockets on Programming Module per IC package type
- I/O channels  
ALL-100A single-site : 48 sets of Precise Universal Pin Driver  
ALL-100AP multi-site : 68 sets of Precise Universal Pin Driver
- Parallel programming  
ALL-100A : Single-site programming  
ALL-100AP : Multi-site programming. Up to 8 sites per set.
- Operation control  
Base Unit : YES button – Start programming  
ON indicator – Programmer on / ready BUSY indicator – Under programming  
Socket Module : OK indicator – Pass programming
- Data transfer interface  
Transfer port : USB x 1  
Transfer speed : USB1.1 : 12 Mb/sec. USB2.0 : 480 Mb/sec.
- Host computer requirement
  - An Intel Pentium 4 or compatible processor with 512MB of RAM
  - At least one USB port is available (V1.1 / V2.0)
  - 50MB free hard disk space
  - Windows 2000 / XP / Server 2003 / Vista operation system
  - CD ROM / DVD ROM Drive
- Power  
Power source : 100~240 VAC 50~60 Hz  
Power consumption : ~ 0.5 A
- Dimension  
W x D x H 150mm x 260mm x 100mm
- Weight  
~ 4.0 kg
- Operation temperature  
0 ~ 40 °C (32 ~ 105°F)
- Certification  
CE certified

## Ordering Information

Part item	ALL-100A	ALL-100AP
ALL-100A Base Unit (3x pin driver cards installed)	●	
ALL-100A Base Unit (4x pin driver cards installed)		●
Single site DIP48 ZIF socket Programming Module	●	●
Dedicated single-site socket Programming Module	▲	▲
Dedicated multi-site socket Programming Module		▲
USB cable	●	●
Driver S/W and User Manual in CD-ROM	●	●
Adapter / Converter	▲	▲
Note : ● --- Standard ▲ ---- Optional		

### Optional accessories :

Contact HI-LO sales or check <http://www.hilosystems.com.tw> web site for appropriate P/N of Programming Module / Adapter / Converter for IC package to be programmed