300 Series IC Programmer

300 Series
IC Programmer

- Support eMMC and UFS
- Excellent programming performance on high-density NAND Flash and eMMC

ALL-300G2
Universal Gang Programmer

UFS-300S
UFS Programmer (For UFS only)

ALL-300S
Engineering Universal Programmer

- Palm size and space saving
- Best for engineering development and QC inspection

- Support up to 16 sockets
- Best for small to medium volume, high density device programming production

- Support UFS 2.0, UFS 2.1, UFS 3.0, and UFS 3.1
- Support MIPI M-PHY V3.0
- UniPro Specification V1.6
- UFS Card Extension V1.0
- Support up to 2 Lane Gear 3 (Rate A/ Rate B)
- Support 19.2MHz / 26MHz RCLK frequency
- Support UFS LUN read/write
- Support all settings such as Descriptor and Attributes
- 64G internal memory (expandable)
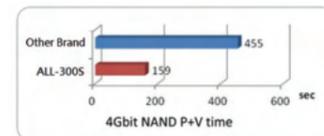- Support USB 3.1 Gen1 (USB3.0) with download speed up to 280 MB/s

Ultra high UFS programming speed
- Program speed up to 230 MB/s
- Verify speed up to 880 MB/s

Data size	Program	Verify
8G	43s	10s
16G	84s	19s

High programming speed

Three times faster than competitors' programmer in the case of high-density NAND Flash and eMMC

4Gbit NAND P+V time

|	sec
Other Brand	455
ALL-300S	159

ALL-300G2

1 Support UFS device by only changing PACK
- Simplified and user-friendly design for users to operate
- Support UFS device simply by changing the PACK on the top of the BASE

BASE + PACK-ALL or PACK-UFS

2 High programming speed
- Three times faster than competitors' programmer in the case of high-density NAND Flash and eMMC
- Four times faster than competitors' programmer in the case of UFS device
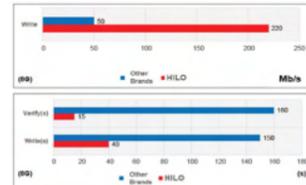
3 Expansion flexibility for production
- One computer can connect to 8 units of ALL-300G2 at the same time
- Up to 128 devices can be programmed simultaneously
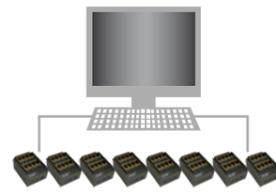
Feature

Excellent programming performance
- Cutting-edge programming core delivers the fastest and most stable programming performance on high-density NAND Flash and eMMC
- Full IC pin contact check prevents bad contact in socket or IC damage from reversed placement

High data transfer speed
- USB3.1 Gen 1 (USB3.0) transferring interface significantly increase the programming speed

Support wide range of IC devices and packages
- Device supported: UFS, eMMC, eMCP, MCU/MPU, NOR/NAND Flash EEPROM, SPI Memory, FPGA, CPLD, etc.
- Package supported: DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA, WLCSP, etc.

Brand-new software interface
- Intuitive graphical user interface
- Clear display of each function in the entire programming procedure
- Display details and status of each device during programming

Timely software support
- Fast software support by customer's request
- The supporting software is updated weekly on HI-LO website for checking or retrieving
- All programming problems will be followed and handled immediately

Specification

	ALL-300S	UFS-300S	ALL-300G2
Device supported	eMMC, eMCP, MCU/MPU, NOR/NAND Flash EEPROM, SPI Memory, FPGA, CPLD, etc.	UFS	UFS, eMMC, eMCP, MCU/MPU, NOR/NAND Flash EEPROM, SPI Memory, FPGA, CPLD, etc.
Package supported	DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA, WLCSP, etc.		
Support IC pin count	8 pins ~ 300 pins		
Socket number	1 socket	1 socket	Support up to 16 sockets
Key functions	Load File, Read Master, Program, Verify, Auto, ID Check, Checksum, Blank Check, Erase, Secure, Protect / Unprotect, Edit, Function Configuration, Self Test, etc.		
Data transfer interface	USB 2.0, USB 3.1 Gen1 (USB3.0)		
Compatible OS	Windows 7, 10		
Power	AC 100 - 240V / 50 - 60Hz		
Power consumption	60W	60W	150W
Operation temperature	0 ~ 40℃ (32 ~ 105℉)		
Dimension	W140 x D181 x H45 (mm)	W140 x D181 x H42 (mm)	With PACK-ALL: W205 x D250 x H161 (mm) With PACK-UFS: W205 x D250 x H164 (mm)
Weight	1.12kg	1.08kg	3.5 kg