Large-Capacity Device Programmer

Quick&**Flexible**

Realizes high speed programming for large capacity memories
in both engineering and mass production

High-Speed Gang Programmer

AG9730B/30C/31

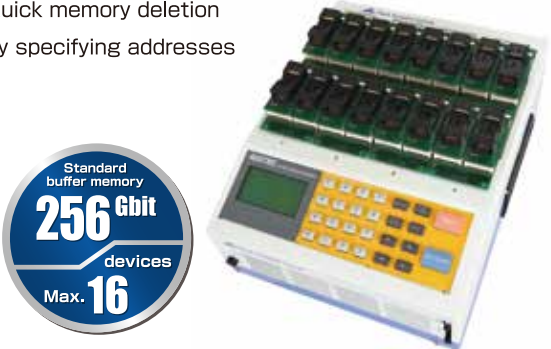### For high density Flash and SPI Flash memories

AG9730B *Amusement*

- High power with Vcc max. 2A per slot
- Supports 2-socket adapters for 140/144pin LGA, etc.
- Data download   approx. 15 sec/Gbit

AG9730C *General*

- Supports eMMC/NAND/SPI Flash,
  etc. for consumer products
- Large capacity buffer memory 256Gbit
- Quick memory deletion
  by specifying addresses

Standard buffer memory **256** Gbit devices Max.**16**

Standard buffer memory **256** Gbit devices Max.**16**

Concurrent programming of up to 16 devices

For devices such as SPI Flash, eMMC NAND memories (moviNAND, iNAND), NOR56TSOP, NAND48TSOP, concurrent programming of up to 16 pcs can be performed with 4-socket adapters.

Full pin checking

By detecting defective items before programming, AG9730B/C maintains high production efficiency and offers high quality programming.

Enable master data download via a CF card

Even without using a personal computer, master data can be downloaded by using a commercially available CF card (*).

* Supported formats of CF cards are FAT12, FAT16, and FAT32.

4-slot concurrent and independent operations

Concurrent programming of 4 kinds of data (*1) and connecting 4 types of adapters (*2) are possible.

*1 Only when processing 1 type of adapter and device
*2 Programming is performed by each slot. Concurrent operation cannot be performed.
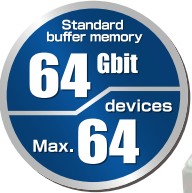
High speed processing

Newly developed high speed algorithm shortens the programming time for large capacity Flash memories.

Data transfer (PC→AG9730B/30C)	Approx. 15 sec/Gbit	Programming	AG9730B 64Gbit NOR Flash Approx. 19 sec/Gbit (high speed algorithm ver.)
			AG9730C 64Mbit SPI Flash Approx. 0.35 sec/Mbit

Max. 64 devices with 16 slots for mass production

AG9731 *Amusement*

Standard buffer memory **64** Gbit devices Max.**64**

- High power with Vcc Max. 2A per slot
- Concurrent programming of up to 64 devices with 4-socket adapters
- Concurrent programming of up to 32 pcs of 140LGA multipin devices
- Optionally, expansible to up to 256Gbit. (option)
  Expansion to 256Gbit enables high speed downloading of approx. 18 sec/Gbit.
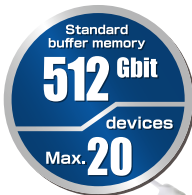
GANG Programmer

For high-speed serial interface

AG9740/40S

For high speed programming to high-speed serial interface memory modules in mass production
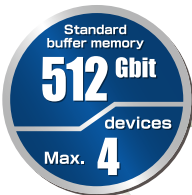
AG9740 *Amusement*

- Enables concurrent programming of up to 20 pcs*
  * Depends on devices.
- High throughput programming at approx. 3.2sec/Gbit*
  * When 20 62Gbit modules of company A are installed. Depends on devices.
- High speed downloading at approx. 2.2sec/Gbit* with USB3.0
  * Depends on PC specifications.
- Buffer memory 512Gbit

AG9740S *Amusement*

- 4-slot version of AG9740
- Higher programming speed than AG9740
  by approx. 20%
- Downloading/programming multiple master data sets at once
- Eliminating the control unit enables the low price

Standard buffer memory **512** Gbit devices Max.**20**

Standard buffer memory **512** Gbit devices Max.**4**

■ Product specifications

	Gang programmer			
	AG9730B/30C	AG9731	AG9740	AG9740S
Supported devices	256Mbit or greater 1.8 to 3.3V type Flash memories or equivalents Customization for various memories/media with ATA-compliant interfaces including HDD/SSD memory modules		High-speed serial interface memory modules	
Buffer memory	256Gbit	64Gbit (Expansible to 256Gbit as an option)	512Gbit	
Concurrent programming /No. of slots	Standard 4 devices Up to 16 devices / 4 slots	Standard 16 devices Up to 64 devices / 16 slots	Up to 20 devices / 20 slots	Up to 4 devices / 4 slots
Device functions	COPY · ERASE · BLANK · PROGRAM · VERIFY · B.P.V · E.P.V · E.P · P.V			
Programming power (Vcc)	0.9V to 3.8V(IccMAX2A)		2.8V to 3.8V(IccMax2A)	
External interfaces	USB2.0, CF Slot, I/O line for external trigger	USB2.0	USB3.0	
Data bus	Up to 64bit		—	
Monitor display	20 characters x 8 rows, full-dot LCD		20 characters x 4 rows, LCD (optional for AG9740S)	
Input voltage/frequency	AC90 to 240V／50 to 60Hz		AC90 to 240V／50 to 60Hz	
Power consumption	Up to 200VA	Up to 930VA	Up to 320VA	
Size * excluding protrusions	W235×D290×H100mm	W500×D540×H70mm	W313×D473×H89mm	W270×D160×H89 mm
Weight * excluding accessories	Approx. 3.6kg	Approx. 12kg	Approx. 5.3kg	Approx. 2kg
Other	Compliant with RoHS			