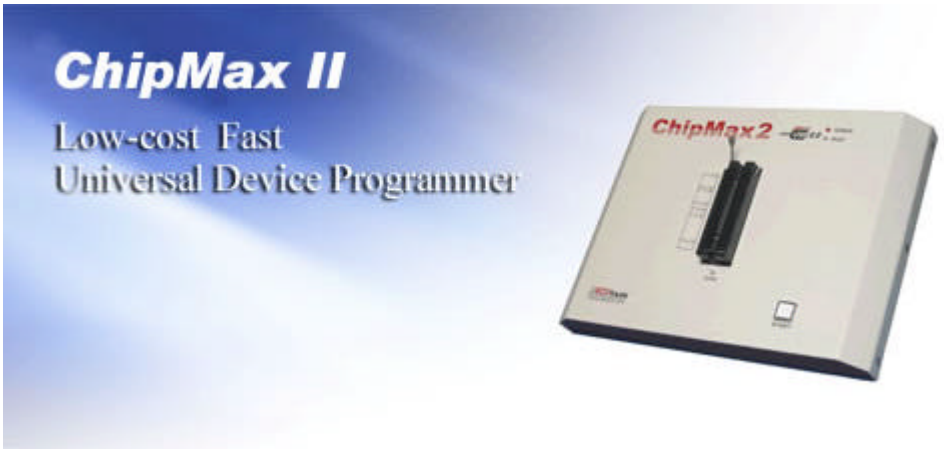


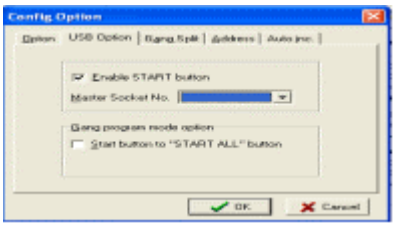
OVERVIEW

ChipMax2 is a high-speed universal device programmer for USB 2.0 PC-interface. It programs a 64Mbit flash memory in 42 seconds. This is a true low-price production oriented system. The ChipMax2 meets the demands of today's programming solution for lab applications.

With high throughput and maximum flexibility , you won't have to worry about a production bottleneck keeping your design off the market. As many as eight ChipMax2 programmers can be connected together, controlled by a single PC with no loss of programming speed, reliability or performance. Each programming site is completely independent of the rest. With independent programming sites, a faulty site can be removed and programming can be continued. Each site is an independent universal programmer, and the system will completely program the first device by the time the operator has inserted the last device.

ChipMax2 is the state-of-art universal programmer offers you the most advanced programming facilities with the most user friendly interface. Since each pin is software addressable, new part numbers are being added to the list of supported devices through software upgrades. No new hardware to buy ! It will prove to be one of the most reliable and long lasting instruments. The ChipMax2 supports the latest device technologies, regardless of package type.

Maxloader features ChipMax2 programmers in the multiple-programming mode for high volume production purpose. The Gang Program Mode (Concurrent Programming Mode) can program any device and the fault-tolerant architecture allows the programmer to continue production even if one of the programmers should fail.

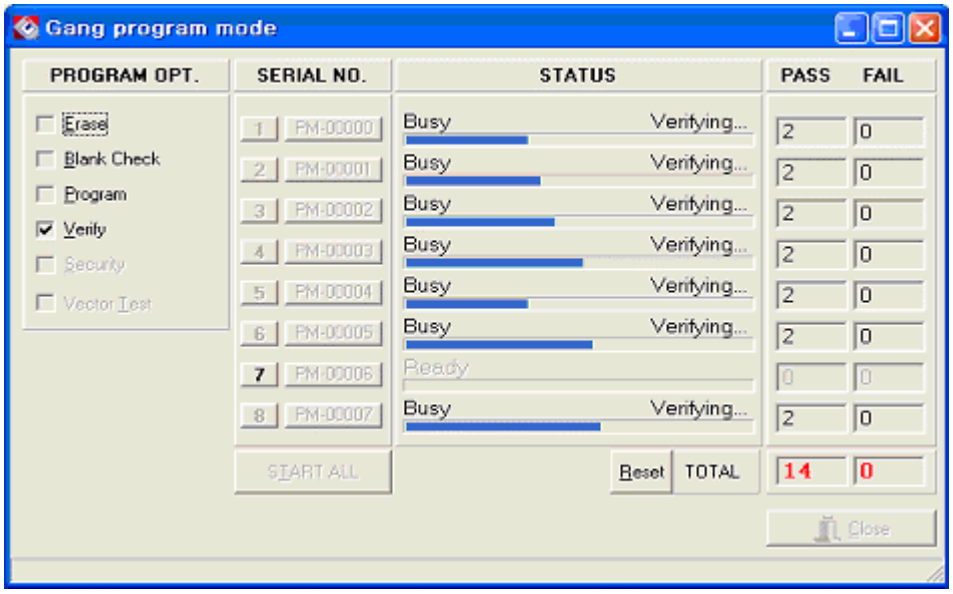


DEVICES SUPPORTED

Serial Flash SPI	M25Pxx, MX25Lxx, S25LFxx, SST25VFxxx
NAND Flash Memory	Samsung K9Kxxx, K5Axxx, K5Fxxx up to 512MB M-System MDOC-256 / 512 Toshiba TC58xxx
Flash Memory	28Fxxx, 29Fxxx, 38Fxxx, 29LVxxx, 26LVxxx, 29GLxxx, 29ALxxx, 29Wxxx, 36xxx, 32HFxxx, 34VFxxx, 37VFxxx, ,39SFxxx, 39VFxxx, 45LFxxx, 49LFxxx, 50FWxxx
EPROM	27xxx and 27Cxxx series, from 16 Kbit to 32Mbit with 8-bit/16-bit data width
EEPROM	27Exxx, 28xxx , and 28Cxxx series
Flash EPROM	256 Kbit to 32 Mbit 28Fxxx, 29Fxxx, 29Cxxx, 29BVxxx, 29LVxxx, 29Wxxx, 49Fxxx series (**1.5, 1.8, 2.7, 3.3, 5.0, or 12 Volt**)
Serial E(E)PROMs	24Cxx, 24Fxx, 25Cxx, 59Cxx, EPC1/1213/1648, and 93Cxx
Bipolar PROM	27Sxx, 7Cxxx, 71xx, 74Sxx, 87Sxx, 82Sxx
isp LOGIC series	ispLSI(10/20)xx, ispGAL22V10, ispGDS1(2)x, LC40(41)xx M4Axxx series
PALCEs, GALs	16V8, 20V8, 22V10, 20RA10, 26V12 series
Dallas NV RAMs	DS12xx, DS13xx, DS15xx, DS16xx series
PEELs	153, 173, 253, 273, 18CV8, 20CG10 series
EPLDs	PLCxxx, PLSxxx, PLUSxxx, Epxxx, EPCxxx, EPMxxx, PLDxxx, 5Cxxx, 85Cxxx series
SPLDs, CPLDs	ATF16/20/22Vxx, ATV750/1500/2500
MACH series	MACH1xx/2xx/4xx, and xxx-SP series
MAX series	MAX5000, MAX7000 series
8748 Microcontrollers	8741, 8742, 8748, 8749 series
8751 Microcontrollers	87C51/52, -FA, -FB, -FC, '528, '652, '654, '54 .....89Cxx, 89Sxx, 89LVxx, 89Cxxxx, DCF85xx, 85(87/89)LPCxxx, PXAxx series, 87C751/752
SGS-Thomson Microcontrollers	ST62xx, ST7xx, ST9xx, ST10xx series
Xilinx EPLDs	XC17Sxxx, 17Vxxx, 72xx, 73xx, XCF01 / 02 / 04 series
WSI's PSD3xx	
MCHP's PICs	PIC12Cxxx, PIC16xxx, 17xxx series
Motorola Microcontrollers	MC68705, MC68HC705, MC68HC711, MC68HC908, MC9S08 series
Zilog Microcontrollers	Z86Cxx, Z86Exx series

KEY FEATURES

Software

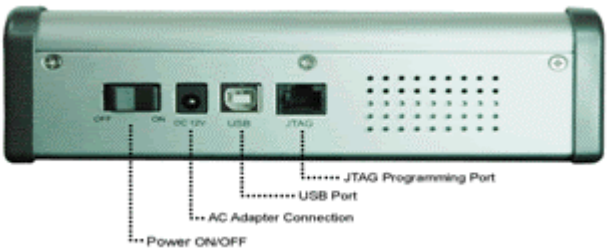


- Supports full WINDOW 95 / 98 / 2000 / NT and XP
- Auto search device select function supports E(E)PROMs & Microcontrollers
- Device insertion test identifies improperly inserted device before programming
- Check for incorrect device insertion, backward, incorrect position, and poor pin contact
- High-speed device function tests and user creatable test library
- Device Operations: Read, Blank check, Program, Verify, Checksum, Data compare, Security, Auto(blank check-program-verify), Option Bit program
- Display programming parameters and optional bit information on the screen
- Set device/buffer address ranges before programming devices
- Extensive on-line F1 help system provides text and graphics
- User-changeable programming parameters
- Gang Program Mode allows programmers up to 8 units as concurrent programming system. (START ALL key enable to program the programmers simultaneously)

- Built-in editor for both buffer date and test vectors
- Support Binary and all hex files (POF and JEDEC, Intel Hex, Motorola S Records, Tekhex, straight hex, hex-space, Extended Tekhex, and others; automatic file type recognition) with Load, Edit, and Save commands
- Distribution of 16- and 32- bit data into 8-bit portions

Hardware

- On-board FPGAs for extremely fast communication
- Supports real low-voltage support:
  5, 3.3, 2.7, 1.8, and 1.5 volt for programming power
- Detects all pin locations for poor or damaged pin contacts
- External "Start
- key allows customer to execute the optional auto program parameters without PC command
- Detects all pin locations for poor or damaged pin contacts
- External switching power supply, 100-240 VAC
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors
- Standard 48-pin ZIF(Zero Insertion Force) socket accepts both 300mil and 600 mil DIP devices
- True universal pin driver hardware
- Support a high-speed USB2.0 port for PC interface
- Support a standard IEEE-1149.1 (JTAG) port
- Hardware diagnostic program exams all socket-pin drivers before using programmer



SPEED

Programming speed (100 % data in memory) **min:sec.00**

Device P/N	Read	Blank	Prog	Verify	Erase
AM29F032B	4.70	4.80	56.24	4.73	38.16
AM29LV128ML	6.70	6.65	03:26.00	6.65	
AM29LV256MH	17.41	16.00	04:06.16	16.77	
AM29LV641DH	4.20	4.43	42.02	4.44	
AM29LV641DH(TopMax)	01:40.00	01:38.00	04:48.54	01:42.00	
E28F128J3A	9.93	7.49	1:55	7.75	01:43.30
E28F128J3C	9.93	7.49	02:01.80	7.75	30.31
E28F640J3C	4.27	4.09	70.02	4.19	17.5
K8D3216UTC-T	2.47	2.47	22.17	2.51	
MX26L004BQC	0.81	0.81	28.24	0.81	31.87
MX29LV641MH		4.86	01:10.40	4.83	
RD38F2040	3.09	3.09	18.71	3.09	53.47
RD38F4050	18.81	18.08	02:55.4	18.30	04:41.8

TECHNICAL SPECIFICATION

Dimension:
- Module: 7.5"(L) x 8.25"(W) x 2.5"(H)
- Weight: 3.8 lbs

Socket: Textool 48 pin ZIF standard
Optional adapter:
- Programming adapter s for non-standard DIP package
- EeRom-8U: ROM Emulator up to 8Mbit for USB interface

SYSTEM REQUIREMENT

TYPE : 386, 486, Pentium or compatibles. PS/2, Portable(notebook) computer.
A hard disk drive(4 megabytes) is recommended for software installation.
PC RAM size : 512K of conventional memory
I/O PORT : USB 1.1 or 2.0
OS : WIN95/98/NT/2000/XP or greater

SAFETY STANDARD

- CE compliant

ChipMax II package contains

- ChipMax II programmer with 48 pin ZIF(DIP) socket
- External universal switching power supply
  -Input 110 -240 VAC, 50/60 Hz, 0.6 AMP
  -Output 12 VDC, 2.0 AMP
- 5 feet long USB cable
- Software CD-ROM and user's manual

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