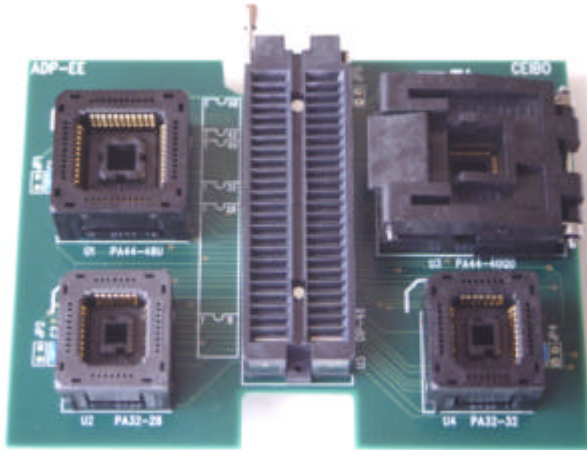


CEIBO MP-UNIV Universal Programmer



CEIBO MP-UNIV is a software expandable universal device programming workstation that supports a wide variety of programmable devices in addition to the capability of testing digital ICs. The MP-UNIV is the most sophisticated low-cost programmer available today. A unique hardware/software architecture enables MP-UNIV to easily grow in support and engineering software design capabilities as quickly as your device library requirement. The state-of-art universal programmer offers you the most advanced programming facilities with the user-friendliest 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. There is also an optional ROM emulator module that supports devices up to 4-Mbit.

CEIBO MP-UNIV features a 48-pin universal pin driver and an expandable TTL pin driver. This special technology allows you to control the programmer's pin switches, so each pin can supply Vcc, Vpp, or GND. Pins can also be configured for TTL high/low levels with pull-high/pull-low, high-speed clock and tri-state. This advanced pin design lets you program any DIP devices up to 48 pins without an adapter. It also ensures the support full rang of today and future devices on the market. The standard system includes support for the following packages with ADP-EE adapter supplied with the programmer: Dip up to 48-pin, 44-PLCC, 44-QFP and 32-PLCC.



Universal programmer adapter. It connects 48 Dip to different sockets. The list of sockets on the adapter is:

- DIP-48 from DIP-48 (generic Dip adapter for 0.3" and 0.6" devices)
- PLCC-32 from DIP-28 (for 2764-27512 and Flash Memories)
- PLCC-44 from DIP-40 (for 8051 μ C)
- QFP-44 from DIP-40 (for 8051 μ C)
- PLCC-32 from DIP-32 (for 27010-27080 and Flash Memories)

Size: 4.5"x3.5" (12cm x 9cm)

CEIBO MP-UNIV allows you not only to program programmable ICs but also to test TTL and CMOS logic ICs. Furthermore, it tests Dynamic memory and Statistic memory whether your ICs are defective or not.

CEIBO MP-UNIV interfaces with Pentium, portable (laptop) or compatible personal computers. The standard package allows you to directly connect to your PC through any USB port

(no special interface card or special modules needed).

The great advantage of MP-UNIV is its superior software. MP-UNIV is controlled via a host personal computer. The operating software has a user-friendly interface that includes window type pull-down menus, macro facility for batch file execution, and virtual memory management to deal with very large files. The MP-UNIV software can read output from most compilers in POF or JEDEC format such as CUPL, PALASM, OPAL, and ABEL. It includes test vector capability, multi-array fuse map editor, and DOS shell handling utilities, file format handler. In order to ensure continuous high performance, the control software is equipped with a diagnostic routine performing self-test and diagnosis of drivers of all 48 pins.

One of the MP-UNIV's most flexible features for engineering tools is its optional ROM emulator. Our MP-ROM speeds up your firmware development by eliminating the need to re-install EPROMs each time you test a firmware change. This device plugs into the EPROM socket on your target board and emulates its EPROM throughout the development process. We provide software that loads the EPROM image into the emulator in a matter of seconds!

Device programmed

- **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(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,
- **PALs, 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 series
87C751/752
- **SGS-Thomson Microcontrollers**
ST62xx series
- **Xilinx EPLDs**
XC72xx, XC73xx series
- **WSI s PSDs**
PSD3xx, PSD4xx, PSD5xx series
- **MCHP s PICs**
PIC12Cxxx, PIC16xxx, 17xxx series
- **Motorola Microcontrollers**
MC68705, MC68HC705, MC68HC711 series
- **Zilog Microcontrollers**
Z86Cxx, Z86Exx series

I.C.s Tested

- TTL type
54, 74(S, LS, L, H, HC) series
- CMOS type
40, 45 series
- Dynamic Memory
4164 - 1MBit
- Static Memory
6116 - 6256
- User definable test pattern generation

KEY FEATURES

- Flexible and easy to use menu-driven software.
- 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).
- Support real 5, 3.3, and 2.7 volt for programming power.
- Display programming parameters on the screen.
- Set device/buffer address ranges before programming devices.
- Extensive on-line F1 help system provides text and graphics.
- Auto Programming for production programming.
- User-changeable programming parameters.
- Built-in editor for both buffer data and test vectors.
- MACRO commands supports batch mode operation.
- Support POF and JEDEC, Intel Hex, Motorola S Records, Tekhex, and binary file formats with Load, Edit, and Save commands.
- Distribution of 16- and 32- bit data into 8-bit portions.
- Any standard USB interface.
- Two on-board FPGAs for extremely fast communication.
- Supports real 5, 3.3, and 2.7 volt for programming power.
- Detects all pin locations for poor or damaged pin contacts.
- Internal universal power supply,110-240 VAC (no separate power supply required in foreign country).
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors.
- ADP-EE Universal programmer adapter: 48-Dip, 44-PLCC, 44-QFP and 32-PLCC as standard
- True universal pin driver hardware.
- Hardware diagnostic program exams all 48-pin drivers before using programmer.

SPEED

	<u>PALCE22V10</u>	<u>AT29LV020</u>	<u>ST27C4002</u>
Program	2.7 sec	14.5 sec	53.9 sec
Verify	1.0	4.4	12.3
Blank Check	0.5	na	11.9
Read	0.5	4.7	15.4

(Tested by PC: 486DX2-50Mhz)

The MP-Univ.'s menu-driven software is easy to use. Menu selections are made using cursor keys, a single character, or a hot key(F1..F12) to invoke commands and submenus. Selecting the exact algorithm for the device you want to program is easy. As you type a device in the menu, the screen constantly changes to show you all the known devices that match your selection. For example, as you type 27256, the screen shows all 27256 devices and lets you scroll through the list showing each manufacturer, part number, and suffix. Pressing the ENTER key installs the chosen algorithms and you are ready to program, read, verify, or blank check the part. Pressing F4 will give you more details on the device including manufacturer, ID, Vcc, Vpp, number of pins, and adapter order number if your part is not standard the DIP type. The CONFIG allows you to specify different programming options. Setting the configuration options properly, the operation of MP-UNIV will assist your application needs.

The MP-UNIV universal pin driver capability lets it program all 48-pin DIP devices without DIP-to-DIP adapters, including all single-chip Microcontrollers. The market, however, offers many choices besides DIP devices, such as PLCCs, SOPs, TSOPs, QFPs, and SOICs. We have developed over 50 different converters to support these non-DIP device packages. The MP-UNIV universal pin driver not only eliminates the need of programming modules but also reduce the number of converters required, reducing your cost for future expansion. A single 44-pin PLCC adapter lets it program all 44 pin PLCC devices.

TECHNICAL SPECIFICATION

Dimension:

- Module: 9.75 ±(L) x 7.50 ±(W) x 2.25 ±(H)
- Weight: 3.25 lbs

Socket: 48-Dip, 44-PLCC, 44-QFP, 32-PLCC

SYSTEM REQUIREMENT

TYPE: Pentium or compatibles. Portable (notebook) computer.

A hard disk drive(3 megabytes) is recommended for software installation.

PC RAM size: 512K of conventional memory

I/O PORT: USB

OS: WIN95/98/NT/2000/X

CEIBO MP-UNIV package contains:

- MP-UNIV Programmer with 48-pin ZIF (44 DIP) sockets built-in an internal universal (110 - 240 VAC) switching power supply.
- feet long printer cable.
- feet long AC power cord.
- Installation diskette and manual.

Accessories

MP-44SO44D

Universal adapter supports all 44 pin SOP type devices.

MP-48TS48D

Universal adapter supports all 48 pin TSOP devices.

MP-8G-HD

Universal 8-gang base with 4 slots to fit 4-HEAD makes 8-gang programmer (Refer to MP-UNIV 8-Gang adapter). MP-UNIV User who is going to use the MP-8G-HD for 8-gang programming needs to use the MP-UNIV8W software. Unlike MP-8G customers, customers who buy the MP-8G-HD must buy the header; which contains 2 sockets each.

MP-8G-HD: Universal 8-Gang Base Module: It holds all different HEADs. It can be replaced with the basic 48ZIF single socket (MP-A48).



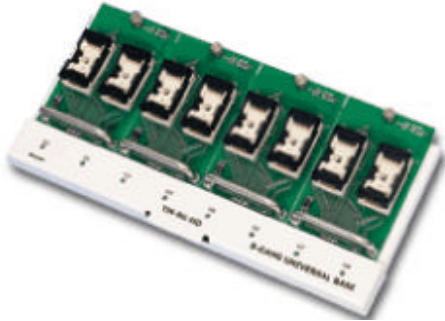
Adapter HEADs illustration

Each HEAD contains two sockets and usually four HEADs make 8-sockets. You can find the correct HEAD number from the device selection menu in MP-UNIV8w software. In order to use these HEADs, customer purchase MP-8G-HD (Base Module).



8-Gang illustration for 48-pin TSOP programming

MP-8G-HD + HD3-48TS (4 pcs), this unit can be inserted on the base unit and makes a "MP-UNIV-8GANG" for programming 48-TSOP package.



MP-8G

8-GANG adapter for programming E(E)PROMs up to 32-pins DIP type. It contains only 32-pin DIP 8 sockets.



MP-ROM

ROM Emulator up to 8Mbit.

Many others for special devices / packages.

***Life Time Free Software Updates
Free Technical Support and 1 year Warranty
Made in the USA
Supported in the USA and Germany***

MP-UNIV 8-Gang Head List

Part Number	Type Pins	Description
HD1-32DP	DIP-32	Upto 32-pin E(E)PROM, Flash Memory in DIP package
HD1-32PL	PLCC-32	All 32-pin E(E)PROM, Flash Memory in PLCC package
HD2-48ST	STSOP-48	Samsung Semi.KM5MU0820/1620 48-Pin STSOP package
HD3-48TS	TSOP-48	AMD(29Fx00), MACRONIX(29f1610/1611), Intel(28Fx00B3), 48-Pin TSOP package
HD4-44PS	PSOP-44	AMD(29Fx00),Intel(28Fx00), Macronix 29F004 44-pin PSOP package
HD5-48DP	DIP-48	16-bit E(E)PROM, upto 42-pin DIP package
HD6-40DP	DIP-40	MPU51(87C51/52,89C51/52), 40-pin DIP package
HD7-44PL	PLCC-44	16-bit E(E)PROM, 27c1024/27c4096/29c1024,44-pin PLCC package
HD8-44PL	PLCC-44	MPU51(87C51/52,89C51/52), 44-pin PLCC package
HD9-24DP	DIP-24	GAL 16V8 24-pin DIP package
HD9-20PL	PLCC-20	GAL 16V8 20-pin PLCC package
HD10-44PS	PSOP-44	OKI R27V1602D/1652D
HD11-48TS	TSOP-48	SAMSUNG NAND FLASH 128Mbit, KM29U128 , 48-pin TSOP package
HD12-44TS	STOP-44	SAMSUNG NAND FLASH 128Mbit, KM29U64000/32000/16000, 44-pin TSOP package
HD13-20DP	DIP-20	Atmel AT89C1051/2051 , 20-pin DIP package
HD13-20PS	PSOP-20	Atmel AT89C1051/2051 , 20-pin PSOP package
HD14-40TS	TSOP-40	AMD AM29LV002/4/8 , 40-pin TSOP package
HD15-18DP/PS	DIP-28	PIC16C83/84, 16F83/84, 16C6x/7x 28-pin DIP package
HD16-48UBGA	uBGA-48	Intel GT28F160C3/320C3-B/T for 48-pin uBGA package
HD17-20SP	SOP-20	Philips 87CLPC762/764 for 20-SOP package
HD18-44TQ	TOFP-44	MPU51(87C51/52,89C51/52), 44-pin TQFP package
HD19-72BGA-B	FBGA-72	Intel RD28F1604/3202/3204 72-pin FBGA TSOP package
HD20-44PL	PLCC-44	ATMEL(AT27C800), ST(M27C800), 44-pin PLCC package
HD21-32TS	TSOP-32	32-pin E(E)PROM 32-pin TSOP package(20 mm)
HD22-44TQ	TQFP-44	Lattice ispLSI2032VE, 44-pin TQFP package
HD23-32STS	Stsop-32	32-pin E(E)PROM 32-pin sTSOP package(14 mm)
HD24-48FBGA	BGA-48	Samsung K8D1616U(B/T), 48-pin BGA package

LIST OF SUPPORTED DEVICES

Following is the list of devices sorted per company. Additional adapters not included in the standard system may be required for programming. In this case, they are listed in the fourth column. Otherwise, the devices are programmed without any need of accessories

<u>COMPANY</u>	<u>DEVICE</u>	<u>PACKAGE</u>	<u>SPECIAL ADAPTER</u>
Altera	EPC1213	(DIP)	
	EPC1213	(PLCC)	
	EPC1064	(DIP)	
	EPC1064	(PLCC)	
	EPM3032A	44	
	EPM7032	44	
	EPM7032V	44	
	EPM7032S		
	EPM7064	44	
	EPM7064	68	P08
	EPM7064	68	P57
	EPM7064	84	P13
	EPM7064	84	P58
	EPM7064s	44	
	EPM7064AE	44	
	EPM7064S	68	P57
	EPM7064S	84	P58
	EPM7096	68	P57
	EPM7096	68	P09
	EPM7096	84	P14
	EPM7096	84	P58
	EPM7128E		
	EPM7128S	84	P59
	EP1800LC		P31
	EP1810JC		P31
	EP1830JC		P31
	EPC1		
	EPC2		
	EP22V10		
	EP22V10E		
	EP220		
	EP310		

	EP312		
	EP320		
	EP330		
	EP600		
	EP600I		
	EP610	(DIP)	
	EP610	(PLCC)	P40
	EP610I	(DIP)	
	EP610I	(PLCC)	P40
	EP630		
	EP900		
	EP900	PLCC	P02
	EP900I		
	EP910		
	EP910	PLCC	P02
	EP910I		
	EP910I	PLCC	P02
<u>ALLIANCE</u>	AS29F04		
<u>AMD</u>	Am27S12		
	Am27S12A		
	Am27S13		
	Am27S13A		
	Am27S185		
	Am27S185A		
	Am27S18		
	Am27S18A		
	Am27S19		
	Am27S19A		
	Am27S191		
	Am27S191A		
	Am27S20		
	Am27S20A		
	Am27S21		
	Am27S21A		
	AM27S23		
	Am27S25		
	Am27S25A		
	Am27S28		
	Am27S28A		
	Am27S29		
	Am27S29A		
	Am27S291		

	Am27S291A		
	Am27S32		
	Am27S32A		
	Am27S33		
	Am27S35		
	Am27S35A		
	Am27S37		
	Am27S37A		
	Am27S43		
	Am27S43A		
	Am27S45		
	Am27S45A		
	Am27S47		
	Am27S47A		
	Am27S51		
	Am27S51A		
	Am1736		
	Am1765		
	Am27128		
	Am27128A		
	Am2716		
	Am2716B		
	Am27256		
	Am2732		
	Am2732A		
	Am2732B		
	Am27512		
	Am2764		
	Am2764A		
	Am27C010		
	Am27C020		
	Am27C040		
	Am27C128		
	Am27C256		
	Am27C512		
	Am27C64		
	Am27H010		
	Am27H256		
	Am27HB010		
	Am27C1024		
	Am27C2048		
	AM27C4096		

	AM27LV010B		
	Am2817A		
	Am2864A		
	Am2864AE		
	Am2864B		
	Am2864BE		
	Am28F010		
	Am28F020		
	Am28F256		
	Am28F512		
	Am29DL162CB/CT		
	Am29DL163CB/CT		
	AM29DL164DB/DT		
	Am29DL316CB/CT		
	Am29DL322CB/CT		
	Am29DL323CB/CT		
	Am29DL323DB/DT		
	Am29DL324DB/DT		
	AM29DL400BB		
	AM29DL400BT		
	AM29DL800BB		
	AM29DL800BT		
	Am29SL160CB/CT		
	AM29SL160BB/BT		
	AM29F004BB/BT		
	Am29F010		
	Am29F040		
	AM29F040B		
	AM29F080		
	AM29F016	(T48)	
	AM29F016B	(T48)	
	AM29F017B		
	AM29F017D		
	AM29LV001BB/BT		
	M29LV002T	(T40)	
	AM29LV002T	(S44)	
	AM29F002BB		
	AM29F002BT		
	AM29F002NBB		
	AM29F002NBT		
	AM29LV004T	(T40)	
	AM29LV004T	(S44)	

	AM29LV008T	(T40)	
	AM29LV008T	(S44)	
	AM29LV008BB		
	AM29LV008BT		
	AM29LV017D		
	AM29LV116DB		
	AM29LV116DT		
	AM29LV033C		
	AM29LV040B		
	AM29LV081		
	AM29LV081B		
	AM29LV116BB/BT		
	AM29F010A/B		
	AM29F080	(T40)	
	AM29F080	(S44)	
	AM29F080B	(T40)	
	AM29F080B	(S44)	
	AM29F100B	(T48)	
	AM29F100B	(S44)	
	AM29F100B	(T40)	CIC40
	AM29F100T	(T48)	
	AM29F100T	(S44)	
	AM29F100T	(T40)	CIC40
	AM29F200B	(T48)	
	AM29F200B	(S44)	
	AM29F200B	(T40)	CIC40
	AM29F200BB		
	AM29F200BT		
	AM29F200T	(T48)	
	AM29F200T	(S44)	
	AM29F200T	(T40)	CIC40
	AM29F200AB	(T48)	
	AM29F200AB	(S44)	
	AM29F200AB	(T40)	CIC40
	AM29F200AT	(T48)	
	AM29F200AT	(S44)	
	AM29F200AT	(T40)	CIC40
	AM29LV200B	(T48)	
	AM29LV200B	(S44)	
	AM29LV200B	(T40)	CIC40
	AM29LV200BB		
	AM29LV200BT		

	AM29LV200T	(T48)	
	AM29LV200T	(S44)	
	AM29LV200T	(T40)	CIC40
	AM29F400B	(T48)	
	AM29F400B	(S44)	
	AM29F400B	(T40)	CIC40
	AM29F400T	(T48)	
	AM29F400T	(S44)	
	AM29F400T	(T40)	CIC40
	AM29F400AB	(T48)	
	AM29F400AB	(S44)	
	AM29F400AB	(T40)	CIC40
	AM29F400AT	(T48)	
	AM29F400AT	(S44)	
	AM29F400AT	(T40)	CIC40
	AM29F400BB	(T48)	
	AM29F400BB	(S44)	
	AM29F400BB	(T40)	CIC40
	AM29F400BT	(T48)	
	AM29F400BT	(S44)	
	AM29F400BT	(T40)	CIC40
	AM29F400B	(T48)	
	AM29F400B	(S44)	
	AM29F400B	(T40)	CIC40
	AM29F400T	(T48)	
	AM29F400T	(S44)	
	AM29F400T	(T40)	CIC40
	AM29F800B	(T48)	
	AM29F800B	(S44)	
	AM29F800B	(T40)	CIC40
	AM29F800BB		
	AM29F800BT		
	AM29F800T	(T48)	
	AM29F800T	(S44)	
	AM29F800T	(T40)	CIC40
	AM29F800AB	(T48)	
	AM29F800AB	(S44)	
	AM29F800AB	(T40)	CIC40
	AM29LV008BB		
	AM29LV008BT		
	AM29F800AT	(T48)	
	AM29F800AT	(S44)	

	AM29F800AT	(T40)	CIC40
	AM29LV800B	(T48)	
	AM29LV800B	(S44)	
	AM29LV800B	(T40)	CIC40
	AM29LV800T	(T48)	
	AM29LV800T	(S44)	
	AM29LV800T	(T40)	CIC40
	AM29LV800BB	(T48)	
	AM29LV800BT	(T48)	
	AM29LV160BB	(T48)	
	AM29LV160BT		
	AM29LV160Bx		
	AM29LV160DB/T		
	AM29F032B		
	AM29LV10B		
	AM29F002T		
	AM29F002NT		
	AM29F002NB		
	AM29PL160CB/T		
	AmPAL16H8		
	AmPAL16H8L		
	AmPAL16H8Q		
	AmPAL16HD8		
	AmPAL16L8		
	AmPAL16LD8		
	AmPAL16R4		
	AmPAL16R6		
	AmPAL16R8		
	AmPAL20L10-20		
	AmPAL20L10A		
	AmPAL20L10B		
	PAL16L8-4		
	PAL16R4-4		
	PAL16R4D/2		
	PAL16R6-4		
	PAL16R6D/2		
	PAL16R8-5		
	PAL16R8D/2		
	PAL16L8-7		
	PAL16R4-7		
	PAL16R6-7		
	PAL16R8-7		

	PAL16L8H-10		
	PAL16R4H-10		
	PAL16R6H-10		
	PAL16R8H-10		
	PAL16R8-4		
	PAL20L8-7		
	PAL20R4-7		
	PAL20R6-7		
	PAL20R8-7		
	PAL20L8-5		
	PAL20R4-5		
	PAL20R6-5		
	PAL20L8-10		
	PAL20R4-10		
	PAL20R6-10		
	PAL20R8-10		
	PALCE16V8		
	PALCE16V8H		
	PALCE16V8Q		
	PALCE16V8Z		
	PALCE20V8H-25...		
	PALCE20V8Q-25...		
	PALCE20V8H-10/4		
	PALCE20V8Q-15/4		
	PALCE20V8Q-25/4		
	PALCE20V8		
	PALCE20RA10		
	PALCE20RA10H		
	PALCE20RA10HQ		
	PALCE26V12H/4		
	PALCE26V12		
	MACH110		P17
	MACH111		P17
	MACH111-SP		P17
	MACH120		P20
	MACH210		P17
	MACHLV210		P17
	MACH211		P17
	MACH211-SP		P17
	MACH215		P17
	MACH220.		P20
	MACH230		P18

	MACH130		P18
	MACH435		P19
	MACH436		
	MACHLV436		
	PALC16L8Z		
	PALC16R4Z		
	PALC16R6Z		
	PALC16R8Z		
	PALLV22V10		
	AmPAL22V10		
	AmPAL22V10A		
	AmPALCE22V10H		
	AmPALCE22V10Q		
	AmPALCE22V10Z		
	AmPALLV22V10Z		
	AmPALCE26V12H		
	AmPALCE610H		
	87C51		
	8751H		
	8753H		
	87C521T2		
	87C521		
	87C541		
<u>AMD(MMI)</u>	PAL10H8		
	PAL10L8		
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	GR881		
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	PEEL20CG10		
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	PEEL273		
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	BR93LC66/F		
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	WE512K8		
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	X25F087		
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	X2816A		
	X2816B		
	X2816C		
	X28256		
	X28C256		
	X2864A		
	X2864B		
	X2864H		
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	X28C256		
	X28HC256		
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	X28C513		
	X28LC512		
	X28LC513		
	X28C64		
	XM28C010		
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	X5163AG		
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	X76F641		
	X76F100		
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	X84161		
	X84641		
	X88257		
	X88064		
	X88C64		
	X9315		
Xilinx	XC1701		
	XC1701L		

	XC1718D		
	XC1718L		
	XC1736D		
	XC1736E		
	XC1736L		
	XC1765E		
	XC1765D		
	XC1765L		
	XC1765X		
	XC17128E		
	XC17128D		
	XC17128L		
	XC17128X		
	XC17256E		
	XC17256D		
	XC17256L		
	XC17256X		
	XC17512L		
	XC17C02L		
	XC17C04L		
	XC17S05/L		
	XC17S05XL		
	XC17S10/L		
	XC17S10XL		
	XC17S20/L		
	XC17S20XL		
	XC17S30/L		
	XC17S30XL		
	XC17S40/L		
	XC17S40XL		
	XC17S50XL		
	XC17S100XL		
	XC17S150XL		
	XC18V02		
	XC18V04		
	XC7236A	(44P)	
	XC7272A	68pin	P10
	XC7272A-	84pin	P15
	XC7318	(44P)	
	XC7354	(44P)	
	XC7336	(44P)	
	XC7336Q	(44P)	

	XC7372-	68pin	P12
	XC7372-	84pin	P16
	XC73108		P16
	XC9536		
	XC9536XL		
	XC9572		
	XC9572XL		
	XC95108		
Zilog	Z86E02		
	Z86E02 186X/1903		
	Z86E03		
	Z86E06		
	Z86E04		
	Z86E04 186X/1903		
	Z86E04-1925		
	Z86E08		
	Z86E08-1925		
	Z86E21		
	Z86E30		
	Z86E31		
	Z86E33		
	Z86E34		
	Z86E40		
	Z86E43		
	Z86E44		
	Z86E61		
	Z86E63		
	Z86733		
	Z86743		
RAM(TEST)	DRAM41416		
	DRAM4164		
	DRAM41464		
	DRAM41256		
	DRAM414256		
	DRAM41000		
	SRAM6116		
	SRAM6164		
	SRAM61256		
	SRAM610000		
Logic IC(TEST)	7400		
	7401		
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