

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  $\mu$ C)
- QFP-44 from DIP-40 (for 8051  $\mu$ 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).



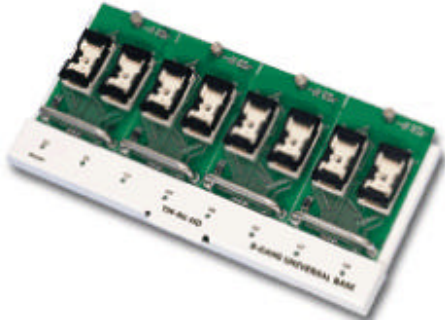
### Adapter HEADs illustration

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>
<b>Altera</b>	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
<b><u>ALLIANCE</u></b>	AS29F04		
<b><u>AMD</u></b>	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		
<b><u>AMD(MMI)</u></b>	PAL10H8		
	PAL10L8		
	PAL12H6		
	PAL12L10		
	PAL12L6		
	PAL14H4		
	PAL14L4		
	PAL14L8		
	PAL16C1		
	PAL16H2		
	PAL16L2		
	PAL16L6		
	PAL16L8		
	PAL16L8A		
	PAL16L8B		
	PAL16L8D		
	PAL16L8H-15		
	PAL16R4		
	PAL16R4A		

	PAL16R4B		
	PAL16R4D		
	PAL16R4H-15		
	PAL16R6		
	PAL16R6A		
	PAL16R6B		
	PAL16R6D		
	PAL16R6H-15		
	PAL16R8		
	PAL16R8A		
	PAL16R8B		
	PAL16R8D		
	PAL16R8H-15		
	PAL16X4		
	PAL18L4		
	PAL20C1		
	PAL20L10		
	PAL20L2		
	PAL20L8A		
	PAL20L8B		
	PAL20R4A		
	PAL20R4B		
	PAL20R6A		
	PAL20R6B		
	PAL20R8A		
	PAL20R8B		
	PAL20X10		
	PAL20X4		
	PAL20X8		
	PALC16L8Q		
	PALC16R4Q		
	PALC16R6Q		
	PALC16R8Q		
	PALC22V10H		
<b>AMIC</b>	A29040		
<b>Atmel</b>	AT27HC641R		
	AT27HC642R		
	AT24C01		
	AT24C01A		
	AT24C02		
	AT24C04		
	AT24C08		

	AT24C16		
	AT24C32		
	AT24C64		
	AT26256		
	AT27C128		
	AT27C256		
	AT27C2048		
	AT27C520		
	AT27LV256R		
	AT27LV520		
	AT27C256R		
	AT27C512		
	AT27C512R		
	AT27LV512A		
	AT27LV512R		
	AT27C513		
	AT27C513R		
	AT27C516		
	AT27C010		
	AT27C400		
	AT27C800		
	AT27LV010		
	AT27LV010A		
	AT27LV010L		
	AT27C010L		
	AT27C011		
	AT27C020		
	AT27C1024		
	AT27C1024L		
	AT27HC1024		
	AT27C4096		
	AT27LV020		
	AT27LV020A		
	AT27C040		
	AT27LV040		
	AT27LV040A		
	AT27C080		
	AT27LV080		
	AT27LV1024		
	AT27LV4096		
	AT27HC64		
	AT27HC256		

	AT27LV256A		
	AT27BV256		
	AT27BV512		
	AT27BV010		
	AT27BV020		
	AT27BV040		
	AT27BV1024		
	AT27BV4096		
	AT28BV16		
	AT28BV64		
	AT28C16		
	AT28C17		
	AT28C64		
	AT28LV64		
	AT28C256		
	AT28C1024		
	AT27HC256		
	AT27RW1024		
	AT28HC16		
	AT28HC16L		
	AT28HC256E		
	AT28HC256F		
	AT28HC256L		
	AT28HC256LE		
	AT28HC64		
	AT28HC64B		
	AT28HC64E		
	AT28HC64L		
	AT28HC64LE		
	AT28C010		
	AT28LV64B		
	AT28LV256		
	AT28MC010		
	AT28MC040		
	AT28PC64		
	AT28PC64E		
	AT32C16		
	AT59C11		
	AT93C46		
	AT93C56		
	AT93C57		
	AT93C66		

	AT29C256		
	AT29C257		
	AT29C512		
	AT29C1024		
	AT29C010		
	AT29C010A		
	AT29LV010A		
	AT29LV020		
	AT29BV010A		
	AT29C020		
	AT29C040		
	AT29C040A		
	AT29LV040A		
	AT29LV1024		
	AT17C65		
	AT17C65A		
	AT17C128		
	AT17C128A		
	AT17C256		
	AT17C256A		
	AT17C512		
	AT17C512A		
	AT17C010		
	AT17C010A		
	AT17LV65A		
	AT17LV128A		
	AT17LV256A		
	AT17LV512A		
	AT17LV010A		
	AT49BV001		
	AT49BV001N		
	AT49BV001T		
	AT49BV001NT		
	AT49BV002		
	AT49BV002N		
	AT49BV002T		
	AT49BV002NT		
	AT49BV040T		
	AT49BV080T		
	AT49BV512		
	AT49BV1604/T		
	AT49BV1614/T		

	AT49BV1618/T		
	AT49BV4096A/AT		
	AT49BV8192A/AT		
	AT29F001		
	AT29F001N		
	AT29F002		
	AT29F002N		
	AT45D011		
	AT45D021		
	AT45D041		
	AT45DB011		
	AT45DB021		
	AT45DB041		
	AT45DB081		
	AT45DB161		
	AT45DB321		
	AT49F010		
	AT49F020		
	AT49F040		
	AT49F040T		
	AT49F1024		
	AT49F1025		
	AT49F1604/T		
	AT49F1614/T		
	AT49F4096A/AT		
	AT49F512		
	AT29LV001		
	AT29LV001N		
	AT29LV001T		
	AT29LV001NT		
	AT29LV002		
	AT29LV002N		
	AT29LV002T		
	AT29LV002NT		
	AT49BV2048A		
	AT49BV8004		
	AT49BV800AT		
	AT49BV8011		
	AT49BV8011T		
	AT49F8004		
	AT49F800AT		
	AT49F8011		

	AT49F8011T		
	AT49F1618		
	AT49LV010		
	AT49LV020		
	AT49LV040		
	AT49LV040T		
	AT49LV080		
	AT49LV080T		
	AT49LV2048		
	AT59C22		
	AT59C13		
	AT22V10		
	AT22V10B		
	AT22V10L		
	AT22LV10L		
	ATF16V8B		
	ATF16V8C		
	ATF16V8CZ		
	ATF16V8L		
	ATF20V8L		
	ATF22V10B		
	ATF22V10C		
	ATF22V10CZ		
	ATF22V10L		
	ATF22LV10C		
	ATF22LV10CZ		
	ATV750		
	ATV750B/L		
	ATV750LVC		
	ATV750LVCL		
	ATV750LVCEXT		
	ATF1500		
	ATF1504		
	ATF1508		
	ATV2500/H/L		
	ATV2500B/BQ		
	ATV2500	(44P)	
	ATV2500H	(44P)	
	ATV2500L	(44P)	
	ATV2500B	(44P)	
	ATV2500BQ	(44P)	
	ATF16V8B/L		

	ATF20V8B/L		
	AT87F51		
	AT87F51RC		
	AT87F52		
	AT87F55		
	AT87F55WD		
	AT89C51		
	AT89C51RC		
	AT89C51-5		
	AT89C52		
	AT89C52-5		
	AT89C55		
	AT89C1051		
	AT89C1051U		
	AT89C2051		
	AT89S51		
	AT89S52		
	AT89S53		
	AT89S8252		
	AT89LV51		
	AT89LV52		
	AT89C1051		
	AT89C2051		
	AT89C4051		
	AT90S1200		
	AT90S2313		
	AT90S2323		
	AT90S2343		
	AT90S2333		
	AT90S4434		
	AT90LS2333		
	AT90LS4434		
	AT90S4415		
	AT90S4434		
	AT90S8515		
	AT90S8535		
	AT90S1200		
	AT90LS2323		
	AT90LS2343		
	AT90LS4434		
	AT90LS8535		
<b>BRIGHT</b>	BR29F040		

	BR29F400B		
	BR29F400T		
<b>Catalyst</b>	CAT24C02		
	CAT24C04		
	CAT24C08		
	CAT24C16		
	CAT24WC01		
	CAT24WC02		
	CAT24WC04		
	CAT24WC08		
	CAT24WC16		
	CAT2502		
	CAT2504		
	CAT2508		
	CAT2516		
	CAT2532		
	CAT2564		
	CAT25128		
	CAT25256		
	CAT27010		
	CAT27128A		
	CAT27256		
	CAT27512		
	CAT2764A		
	CAT27HC256		
	CAT28C16A		
	CAT28C17A		
	CAT28C256		
	CAT28C64A		
	CAT28C64B		
	CAT28C65A		
	CAT28F010		
	CAT28F020		
	CAT33C101		
	CAT33C104		
	CAT33C116		
	CAT33C116I		
	CAT33C204		
	CAT35C102		
	CAT35C104		
	CAT35C116		
	CAT35C116I		

	CAT35C202		
	CAT35C204		
	CAT59C11		
	CAT93C46		
	CAT93C46A		
	CAT93C56		
	CAT93C86		
	CAT27C210		
<b><u>Cypress</u></b>	CY7C235		
	CY7C245		
	CY7C245A		
	CY7C265		
	CY7C266		
	CY7C268		
	CY7C269		
	CY7C271		
	CY7C274		
	CY7C279		
	CY7C281		
	CY7C282		
	CY7C263		
	CY7C264		
	CY7C285		
	CY7C261		
	CY7C263		
	CY7C264		
	CY7C276		
	CY7C286		
	CY7C287		
	CY7C289		
	CY7C291		
	CY7C291A		
	CY7C292		
	CY7C292A		
	CY7C293A		
	CY27C256		
	CY27C512		
	CY27C010		
	CY27C020		
	CY27C040		
	CY7C330		
	CY7C331		

	CY7C332		
	CY7C63000A		
	CY7C63001A		
	CY7C63100A		
	CY7C63101A		
	PAL22V10		
	PAL22V10C		
	PAL22VP10C		
	PALC22V10B		
	PALC22V10D		
	PALC16L8		
	PALC16R4		
	PALC16R6		
	PALC16R8		
	PLDC20G10		
	PLDC20G10B		
	PLDC20G10C		
	PLDC20RA10		
	PALCE16V8		
	PALCE22V10		
<b>Dallas</b>	DS1220AB		
	DS1220AD		
	DS1220Y		
	DS1225AB		
	DS1225AD		
	DS1225Y		
	DS1230AB		
	DS1230Y		
	DS1235AB		
	DS1235Y		
	DS1235YW		
	DS1243		
	DS1243Y		
	DS1244Y		
	DS1245Y		
	DS1245AB		
	DS1248Y		
	DS1486		
	DS1643		
	DS1643Y		
	DS1644		
	DS1645AB		

	DS1645Y		
	DS1650AB		
	DS1650Y		
	DS1658AB		
	DS1658Y		
	DS87C520		
	DS87C530		
<b><u>Dense Pac</u></b>	DPV27C101		
	DPV27C256		
	DPV27C512		
<b><u>Electronic</u></b>	EA2716		
	EON		
	EN27C010		
	EN27C020		
	EN27C512		
	EN27LV010/B		
	EN27LV020/B		
	EN27LV512/B		
<b><u>EXEL</u></b>	XLS2804A		
	XLS2816A		
	XLS2817A		
	XLS2864A		
	XLS2865A		
	XLS93C46		
	XLS93C56		
	XLS93C66		
	XLS93LC46		
	XLS93LC56		
	XLS93LC66		
<b><u>Fairchild</u></b>	NM93C46		
<b><u>Fujitsu</u></b>	MB7123E		
	MB7123H		
	MB7123L		
	MB7124E		
	MB7124H		
	MB7124L		
	MB7124Y		
	MB7127E		
	MB7127H		
	MB7127L		
	MB7128E		
	MB7128H		

	MB7128L		
	MB7128Y		
	MB7131E		
	MB7131E-SK		
	MB7131H		
	MB7131H-SK		
	MB7131L		
	MB7131L-SK		
	MB7132E		
	MB7132E-SK		
	MB7132H		
	MB7132L		
	MB7132L-SK		
	MB7132Y		
	MB7132Y-SK		
	MB7133E		
	MB7133H		
	MB7134E		
	MB7134H		
	MB7134Y		
	MB7137E		
	MB7137E-SK		
	MB7137H		
	MB7137H-SK		
	MB7137L		
	MB7138E		
	MB7138E-SK		
	MB7138H		
	MB7138H-SK		
	MB7138Y		
	MB7138Y-SK		
	MB71A38		
	MB7142E		
	MB7142H		
	MB7144E		
	MB7144H		
	MB71C44		
	MBM27128		
	MBM2716		
	MBM2716H		
	MBM27256		
	MBM2732		

	MBM2732A		
	MBM2764		
	MBM27C1000		
	MBM27C1001		
	MBM27C1001A		
	MBM27C128		
	MBM27C128P		
	MBM27C256		
	MBM27C256A		
	MBM27C256AP		
	MBM27C256H		
	MBM27C512		
	MBM27C512P		
	MBM27C64		
	MBM28C64		
	MBM28C65		
	MBM27C1024		
	MBM27C2048		
	MBM27C4096		
	MBM28C256		
	MBM28F010		
	MBM29LV400B	(T48)	
	MBM29LV400B	(S44)	
	MBM29LV400B	(T40)	
	MBM29LV400T	(T48)	
	MBM29LV400T	(S44)	
	MBM29LV400T	(T40)	
	MBM29LV008B	(T40)	
	MBM29LV008B	(S44)	
	MBM29LV008T	(T40)	
	MBM29LV008T	(S44)	
	MBM29LV004B	(T40)	
	MBM29LV004B	(S44)	
	MBM29LV004T	(T40)	
	MBM29LV004T	(S44)	
	MBM29LV002B	(T40)	
	MBM29LV002B	(S44)	
	MBM29F200AB	(T48)	
	MBM29F200AB	(S44)	
	MBM29F200AT	(T48)	
	MBM29F200AT	(S44)	
	MBM29F400AB	(T48)	

	MBM29F400AB	(S44)	
	MBM29F400AT	(T48)	
	MBM29F400AT	(S44)	
	MBM29F800B	(T48)	
	MBM29F800B	(S44)	
	MBM29F800T	(T48)	
	MBM29F800T	(S44)	
	MBM29LV160B	(T48)	
	MBM29LV160T	(T48)	
	MBM29F080	(T40)	
	MBM29F080	(S44)	
	MBM29F016	(T48)	
	TMBM29F040A		
	MBM29F040B		
	MBM29PL160BD		
	MBM29PL160TD		
	MBM29F160BE		
	MBM29F160TE		
	MB8541P		
	MBL8742H		
<b><u>General Instrument</u></b>	27256		
	27C128		
	27C256		
	27C512		
	27C513		
	27C64		
	27HC64		
	27HC64L		
	28C04		
	28C04F		
	28C16		
	28C17		
	28C17F		
	28C64		
	28C64A		
	28C64AX		
<b><u>Generic Algorithm</u></b>	27128	<21V>	
	27128A	<12.5V>	
	2716	<25V>	
	27256	<12.5>	
	2732	<25V>	
	2732A	<21V>	

	2732B	<12.5V>	
	27512	<12.5V>	
	2764	<21V>	
	2764A	<12.5V>	
	27C128	<12.5V>	
	27C128	<21V>	
	27C16	<25V>	
	27C256	<12.5V>	
	27C32	<25V>	
	27C512	<12.5V>	
	27C64	<12.5V>	
	27C64	<21V>	
<b><u>Greenwich</u></b>	GR27128		
	GR27256		
	GR27512		
	GR27513		
	GR2764		
	GR12882		
	GR12883		
<b><u>Greenwich</u></b>	GR3281		
	GR281		
	GR881		
<b><u>Gould</u></b>	PEEL153		
	PEEL173		
	PEEL253		
	PEEL273		
	PEEL18CV8		
	PEEL20CG10		
	PEEL22CV10		
	PEEL253		
	PEEL273		
<b><u>Hitachi</u></b>	HN27128A		
	HN27128AG		
	HN27128AP		
	HN27256		
	HN27256G		
	HN27256P		
	HN27512		
	HN27512G		
	HN27512P		
	HN27C101AG		
	HN27C101AP		

	HN27C101G		
	HN27C101P		
	HN27C256		
	HN27C256AG		
	HN27C256G		
	HN27C256HG		
	HN27C512AG		
	HN27C301G		
	HN27C301P		
	HN27C4001G		
	HN27C64G		
	HN28F101		
	HN462532G		
	HN462716		
	HN462716G		
	HN462732G		
	HN48016P		
	HN4827128G		
	HN4827128P		
	HN482732AG		
	HN482764G		
	HN482764P		
	HN58064		
	HN58C256P		
	HN58C65P		
	HN27C1024HG		
	HN27C4096G		
	H8/3332		P36
	H8/337		P37
	H8/532		P38
	H8/536		P39
<b>Hyundai</b>	HY2764		
	HY27C64A		
	HY29F040A		
	HY29F080T		
	HY29F400BB/BT		
	HY93C46		
	HY18CV8		
	GMS77C1000		
	GMS77C1001		
<b>ICT</b>	27CX010		
	93C46		

	93C46A		
	93C56A		
	93C66A		
	93CX46		
	93CX56		
	93CX66		
	PEEL153		
	PEEL253		
	PEEL173		
	PEEL273		
	PEEL18CV8/Z		
	PEEL18LV8Z		
	PEEL20CG10		
	PEEL20CG10A		
	PEEL22CV10		
	PEEL22CV10A		
	PEEL22CV10A+		
	PEEL22CV10Z		
	PEEL253		
	PEEL273		
	PA7024		
	PA7128		
	PA7140		
	27CX321		
	27CX322		
	27CX641		
	27CX642		
<b><u>IDT</u></b>	IDT78C16A		
	IDT78C256A		
	IDT78C64A		
	IDT78M64		
	IDT78M64S		
<b><u>Intel</u></b>	27010		
	27011		
	27C011		
	27128		
	27128A		
	27128B		
	2716		
	27256		
	2732		
	2732A		

	27512		
	27513		
	2764		
	2764A		
	27C010		
	27C010A		
	27C011		
	27C020		
	27C040		
	27C100		
	27C128		
	27C256		
	27C400		
	27C512		
	27C513		
	27C64		
	2816A		
	2817A		
	2864		
	2864A		
	DA28F016SA	(S56)	
	DA28F016SV	(S56)	
	DD28F032SA		
	DA28F320J5		
	DA28F640J5		
	DT28F160F3	SSOP56	
	E28F002BX/L-B	(T40)	
	E28F002BX/L-T	(T40)	
	E28F002BV/E-B	(T40)	
	E28F002BV/E-T	(T40)	
	E28F004BX/L-B	(T40)	
	E28F004BX/L-T	(T40)	
	E28F004BV-B	(T40)	
	E28F004BV-T	(T40)	
	E28F002BE-B	(T40)	
	E28F002BE-B	(T40)	
	E28F008BE-B	(T40)	
	E28F008BE-T	(T40)	
	E28F008BV-B	(T40)	
	E28F016SA	(T56)	CIC56T
	E28F016SV	(T56)	CIC56T
	E28F200BX/L-B	(T56)	

	E28F200BX/L-T	(T56)	
	E28F200BV/E-B	(T56)	
	E28F200BV/E-T	(T56)	
	E28F200CV-B	(T48)	
	E28F200CV-T	(T48)	
	E28F200B5-B	(T48)	
	E28F200B5-T	(T48)	
	E28F200BX/L-B	(S44)	
	E28F200BX/L-T	(S44)	
	E28F200BV/E-B	(S44)	
	E28F200BV/E-T	(S44)	
	PA28F200B5-B	(S44)	
	PA28F200B5-T	(S44)	
	E28F400BX/L-B	(T56)	
	E28F400BX/L-T	(T56)	
	E28F400BV/E-B	(T56)	
	E28F400BV/E-T	(T56)	
	E28F400CV-B	(T48)	
	E28F400CV-T	(T48)	
	E28F400B5-B	(T48)	
	E28F400B5-T	(T48)	
	PA28F400BX/L-B	(S44)	
	PA28F400BX/L-T	(S44)	
	PA28F400BV/E-B	(S44)	
	PA28F400BV/E-T	(S44)	
	PA28F400B5-B	(S44)	
	PA28F400B5-T	(S44)	
	E28F800CE-B	(T48)	
	E28F800CE-T	(T48)	
	E28F800CV-B	(T48)	
	E28F800CV-T	(T48)	
	E28F800B5-B	(T48)	
	E28F800B5-T	(T48)	
	PA28F800BV/E-B	(S44)	
	PA28F800BV/E-T	(S44)	
	PA28F800B5-B	(S44)	
	PA28F800B5-T	(S44)	
	E28F008SA	(T40)	
	E28F008SA-L	(T40)	
	E28F008S5	(T40)	
	PA28F008SA	(S44)	
	PA28F008SA-L	(S44)	

	PA28F008S5	(S44)	
	G28F320J5		
	G28F640J5		
	GT28F160B3-B		
	GT28F160B3-T		
	GT28F800B3-B		
	GT28F800B3-		
	RD28F1602C3-B/T		
	RD28F3204C3-B/T		
	28F160S3		
	28F320S3		
	E28F160S3		
	E28F160S5		
	E28F320J5		
	E28F640J5		
	TE28F320B3B/B3T		
	28F010		
	28F020		
	28F256		
	28F256A		
	28F512		
	28F004B3B/B3T		
	28F008B3B/B3T		
	28F008SA		P32
	28F008C3B/C3T		
	28F016B3B/B3T		
	28F016C3B/C3T		
	28F016S5		
	28F032B3B/B3T		
	28F032C3B/C3T		
	28F320S3		
	28F400C3B/C3T		
	28F800B3B/B3T		
	28F800C3B/C3T		
	28F160F3B/F3T		
	28F160C3B/C3T		
	28F320C3B/C3T		
	28F160C2-BA		
	28F160C2-TA		
	E28F320J3A		
	E28F640J3A		
	E28F128J3A		

	RC28F320J3A		
	RC28F640J3A		
	RC28F128J3A		
	RD28F1604C3-B		
	RD28F1604C3-T		
	RD28F3202C3-B		
	RD28F3202C3-T		
	P27128A		
	P27128B		
	P27256		
	P27512		
	P27513		
	P2764A		
	P27C128		
	P27C256		
	P27C64		
	27210		
	27C210		
	27C220		
	27C240		
	87C64		
	5C031		
	5C032		
	5C060		
	5C090		
	5C180		P31
	5AC312		
	5AC324		
	N82802AB		
	E82802AB		
	N82802AC		
	E82802AC		
	85C031		
	85C060		
	85C090		
	85C180		
	85C060		
	85C090		
	85C220		
	85C224		
	85C22V10		
	PLD22V10		

	PLDLV22V10		
	PLD610		
	PLD910		
	8741AH		
	8742		
	8742AH		
	8748		
	8748H		
	8749H		
	8751H		
	87C51		
	87C251SB	PLCC	
	87C251SG	DIP	
	87C51GB		P35
	87C51FA		
	87C51FB		
	87C51FC		
	87L51FA		
	87L51FB		
	87L51FC		
	87C52		
	87C54		
	8755A		
	8751BH		
	8752BH		
	87C196CA		E68
	87C196JQ		C52
	87C196JR		C52
	87C196JT		C52
	87C196JV		C52
	87C196KB		D68
	87C196KC		D68
	87C196KD		D68
	87C196KQ		C68
	87C196KR		C68
	87C196KS		C68
	87C196KT		C68
	87C196MC		C84
	87C196MD		C84
	87C196MH		C84
<b>ISSI</b>	IS27C512		
	IS27HC256		

	IS27HC512		
	IS27HC010		
	IS28F010		
	IS89C51		
	IS89C51A		
	IS89C52		
	IS89C52A		
	IS93C46		
	IS93C66		
<b>Lattice</b>	GAL16V8		
	GAL16V8A		
	GAL16V8B		
	GAL16V8C		
	GAL16V8D		
	GAL16LV8C		
	GAL20V8		
	GAL20V8A		
	GAL20V8B		
	GAL20V8C		
	GAL20LV8C		
	GAL22V10		
	GAL22V10B		
	GAL22V10C		
	GAL22LV10C		
	GAL22LV10D		
	GAL22LV10Z		
	GAL22LV10ZD		
	GAL20XV10		
	GAL6001		
	GAL6001B		
	GAL20RA10		
	GAL20XV10B		
	GAL20RA10B		
	GAL18V10		
	GAL18V10B		
	GAL26CV12		
	GAL26CV12B		
	IspI GAL22LV10		
	ispLSI1016		
	ispLSI1016E		
	ispLSI2032		
	ispLSI2032V		

	ispLSI2032VE		
	ispLSI2032E		
<b><u>L.G. SEMI</u></b>	GM580C701		
	GMS34004TK		
	GMS34004TM		
	GMS34140TM		
	GMS81004		
	GMS81008		
	GMS81016		
	GMS81024		
	GMS81032		
	GMS87C1102		
	GMS87C1202		
	GMS97C54		
	GMS97C56		
	GMS97L51		
	GMS97L52		
	GMS97C1051		
	GMS97C2051		
<b><u>LINVEX</u></b>	LX16CF8020		
	LX16CF8020		
	LX59CF432		
	LX59CF2010		
	LX59CF2128		
	LX59CF4010		
	LX59CF4128		
<b><u>Macronix</u></b>	MX10FMAXDQC		
	MX26C512A		
	MX26C1000A		
	MX26C1024A		
	MX27C256		
	MX27C516		
	MX27L256		
	MX27L512		
	MX27L4000		
	MX27C4111		
	MX27C64		
	MX27L1000		
	MX27C1000		
	MX27C2000		
	MX27C1001		
	MX27C1100		

	MX27C1024		
	MX27C1024A		
	MX27C1024B		
	MX27C2048		
	MX27C4000		
	MX27C4100		
	MX27C4096		
	MX27C8000		
	MX27C8100		
	MX27C512		
	MX27L2000		
	MX28F002B		
	MX28F002T		
	MX28F1000		
	MX28F2000		
	MX28F2100B		
	MX28F4000		
	MX29L1611		
	MX29L8000B		
	MX29L8000T		
	MX29L8100B		
	MX29L8100T		
	MX29F001B/T		
	MX29F002B/T		
	MX29F002NB/NT		
	MX29F004B/T		
	MX29F040		
	MX29F100B/T		
	MX29F400B/T		
	MX29F1610	(S44)	
	MX29F1611	(S44)	
	MX29F1610	(T48)	
	MX29F1610A/B		
	MX29F1611	(T48)	
<b>Microchip</b>	24AA00		
	24AA01		
	24AA02		
	24AA04		
	24AA08		
	24AA16		
	24AA64		
	24LC64		

24AA128		
24AA164		
24C00		
24C08B		
24C16B		
24C32		
24C65		
24LC00		
24LC02B		
24LC04B		
24LC08B		
24LC16B		
24LC32A		
24LC128		
24LC164		
27HC641		
24C01A		
24C02A		
24C04A		
24C16		
24FC128		
24LC01A		
24LC02A		
24LC04A		
24LC16		
24LC21B		
24C32		
24LC32		
24LC65		
25C040		
25C080		
25C160		
25C320		
25C640		
25LC040		
25LC080		
25LC160		
25LC320		
25LC640		
25AA040		
25AA080		
25AA160		

25AA320		
25AA640		
27256		
27C128		
27C256		
27C512		
27C513		
27C64		
27HC256		
27HC256L		
27HC64		
27HC64L		
28C04		
28C04A		
28C04AF		
28C04F		
28C16		
28C16A		
28C16AF		
28C16F		
28C17		
28C17A		
28C17AF		
28C17F		
28C64		
28C64A		
28C64AF		
28C64AX		
93C06		
93C46		
93C46B		
93C56B		
93AA46		
93AA56		
93AA86		
93LC46		
93LC56A		
93LC46A		
93LC46B		
93LC46BX		
93LC56B		
93LC66A/B		

	93LC86		
	93C46A		
	93C56		
	93C56A		
	93LC56		
	93C66		
	93LC66		
	93C86		
	PIC12C508		
	PIC12C508A		
	PIC12C509		
	PIC12CE508/A		
	PIC12CE509		
	PIC14000		
	PIC16C505		
	PIC16C52		
	PIC16C52	(OTP)	
	PIC16C54		
	PIC16C54A/B		
	PIC16C54B/B	(OTP)	
	PIC16CR54A		
	PIC16CR54A	(OTP)	
	PIC16C55		
	PIC16C55	(OTP)	
	PIC16C56/A/B		
	PIC16C56B	(OTP)	
	PIC16C57/C		
	PIC16C58/A/B		
	PIC16C58/A/B	(OTP)	
	PIC16C554		
	PIC16C556		
	PIC16C558		
	PIC16C61		
	PIC16C62		
	PIC16C62A		
	PIC16C62B		
	PIC16C620/A		
	PIC16C621/A		
	PIC16C622/A		
	PIC16C624		
	PIC16C63/A		
	PIC16C64/A		

	PIC16C641		
	PIC16C642		
	PIC16C65		
	PIC16C65A/B		
	PIC16C66		
	PIC16C661		
	PIC16C662		
	PIC16C77		
	PIC16C710		
	PIC16C711		
	PIC16C71		
	PIC16C715		
	PIC16C72A		
	PIC16C72		
	PIC16C73		
	PIC16C73A		
	PIC16C73B		
	PIC16C74		
	PIC16C74A/B		
	PIC16C76		
	PIC16C77		
	PIC16C84		
	PIC16CR83		
	PIC16CR84		
	PIC16C773		
	PIC16C774		
	PIC16C923		
	PIC16C924		
	PIC16F83		
	PIC16F84/A		
	PIC16F873		
	PIC16F874		
	PIC16F876		
	PIC16F877		
	PIC16LC73A		
	PIC16LC73B		
	PIC16LC74A		
	PIC16LC74B		
	PIC16LC77		
	PIC17C42		
	PIC17C42A		
	PIC17C43		

	PIC17CR43		
	PIC17C44		
	PIC17CR44		
	PIC17C752		
	PIC17C756/A		
	37LV36		
	37LV65		
	37LV128		
	24AA65		
	24LC164		
<b>Micron</b>	MT28F400B	(S44)	
	MT28F400T	(S44)	
<b>Mitsubishi</b>	M5L27128K		
	M5L27256K		
	M5L2732		
	M5L27512K		
	M5L2764K		
	M5M27128P		
	M5M27256P		
	M5M27512P		
	M5M2764P		
	M5M27C100K		
	M5M27C100P		
	M5M27C101K		
	M5M27C101P		
	M5M27C128K		
	M5M27C201K		
	M5M27C202K		
	M5M27C256AK		
	M5M27C256K		
	M5M27C256P		
	M5M27C401K		
	M5M27C512AK		
	M5M27C512AP		
	M5M28C64AP		
	M5M28C64P		
	M5M28F102P		
	M5M27C102K		
	M5M27C102P		
	M5M27C202K		
	M5M27C402K		
	M5M29F016VP	(T48)	

	M5M29FB800	(S44)	
	M5M29FB800	(T48)	
	M5M29FB800	(CIC)	CIC40
	M5M29FT800	(S44)	
	M5M29FT800	(T48)	
	M5M29FT800	(CIC)	CIC40
	M37531E4		
	M37531E8		
<b><u>MOSEL-VITELIC</u></b>	V29C51001B		
	V29C51001T		
<b><u>Mostek</u></b>	ET2716		
	ETC2716		
	ETC2732		
	MK2716		
	MK2764		
<b><u>Motorola</u></b>	MCM2716		
	MCM2532		
	MCM2814		
	MCM68766		
	MC68705P3		
	MC68705P5		
	MC68705R3		
	MC68705R5		
	MC68705U3		
	MC68705U5		
	MC68HC11A1-P		
	MC68HC11A8-P		
	MC68HC11E11-FN		A52
	MC68HC11E9-FN		A52
	MC68HC11E20-FN		A52
	MC68HC711D3-FN		
	MC68HC711D3-P		.
	MC68HC811E2-FN		A52
	MC68HC711E9-FN		A52
	MC68HC711L6-FN		A68
	MC68HC711K4-FN		A84
	MC68HC711P2-FN		A84
	MC68HC711E20-FN		A52
	MC68HC11A1-FN		A52
	MC68HC11A8-FN		A52
	MC68HC705C4A-FNT	44	
	MC68HC705C4A-P		

	MC68HC705C5-P		
	MC68HC705C5-FN		
	MC68HC705C8-FN		
	MC68HC705C8-P		
	MC68HC705C8A-P		
	MC68HC705C8A-FNT	44	
	MC68HC705C8A-P		
	MC68HC705C9-FN		
	MC68HC705C9-P		
	MC68HC705C9A-FNT	44	
	MC68HC705C9A-P		
	MC68HC705D9-FN		
	MC68HC705D9-P		
	MC68HC705D32A-P		
	MC68HC705D32A-FNT		
	MC68HC705J2-P		
	MC68HC705B5-FN		B52
	MC68HC705B16N		
	MC68HC705B16-FN		B52
	MC68HC705B32-FN		B52
	MC68HC705JJ7		
	MC68HC705JP7		
	MC68HC705MC4		
	MC68HC705SR3		
	MC68HC811E2-P		
	MC68HC705P6		
	MC68HC705P6A-P		
	MC68HC705P9-P		
	MC68HC805P18-P		P62
	MC68HC805P18-DW		P64
	MC68HC705X32-FU		P63
	MC68HC705X4-DW		P64
	MC68HC705X16-FU		P63
	74LS471		
	74S287		
	74S287A		
	74S288		
	74S387		
	74S387A		
	74S472		
	74S472A		
	74S472B		

74S473		
74S473A		
74S474		
74S570		
74S570A		
74S571		
74S571A		
74S571B		
74S572		
74S573		
74S573A		
74S573B		
87S181		
87S181A		
87S185		
87S185A		
87S185B		
87S191		
87S191A		
87S191B		
MM2716		
MM2716E		
NM24C02		
NM24C04		
NM24C08		
NM24C16		
NM27C010		
NM27C020		
NM27C040		
NM27C128		
NM27C240		
NM27C512		
NM27C64		
NMC2732		
NMC27C010		
NMC27C020		
NMC27C128B		
NMC27C128BN		
NMC27C128BQ		
NMC27C128C		
NMC27C128CQ		
NMC27C16		

	NMC27C16BQ		
	NMC27C16H		
	NMC27C16HQ		
	NMC27C16Q		
	NMC27C256		
	NMC27C256B		
	NMC27C256BN		
	NMC27C256C		
	NMC27C32		
	NMC27C32Q		
	NMC27C32B		
	NMC27C32E		
	NMC27C32EH		
	NMC27C32H		
	NMC27C512		
	NMC27C512A		
	NMC27C512AN		
	NMC27C64		
	NMC27C64B		
	NMC27C64BN		
	NMC27C64N		
	NMC27CP128		
	NMC9306		
	NMC9307		
	NMC9313B		
	NMC9314B		
	NMC9346		
	NMC93C06		
	NMC93C14		
	NMC93C46		
	NMC93C56		
	NMC93C66		
	NMC93C86		
	NMC93CS06		
	NMC93CS46		
	NMC93CS56		
	NMC93CS66		
	NMC27C1024		
	NMC27C2048		
	GAL16V8		
	GAL16V8A		
	GAL20V8		

	GAL20V8A		
	GAL20RA10		
	GAL22V10		
	GAL22CV10		
	GAL6001		
	PAL10H8		
	PAL10H8A		
	PAL10H8A2		
	PAL10L8		
	PAL10L8A		
	PAL10L8A2		
	PAL12H6		
	PAL12H6A		
	PAL12H6A2		
	PAL12L6		
	PAL12L6A		
	PAL12L6A2		
	PAL14H4		
	PAL14H4A		
	PAL14H4A2		
	PAL14L4		
	PAL14L4A		
	PAL14L4A2		
	PAL16H2		
	PAL16H2A		
	PAL16H2A2		
	PAL16L2		
	PAL16L2A		
	PAL16L2A2		
	PAL16C1		
	PAL16C1A		
	PAL16C1A2		
	PAL16L8		
	PAL16L8A		
	PAL16L8A2		
	PAL16L8B		
	PAL16L8B2		
	PAL16R4		
	PAL16R4A		
	PAL16R4A2		
	PAL16R4B		
	PAL16R4B2		

	PAL16R6		
	PAL16R6A		
	PAL16R6A2		
	PAL16R6B		
	PAL16R6B2		
	PAL16R8		
	PAL16R8A		
	PAL16R8A2		
	PAL16R8B		
	PAL16R8B2		
	PAL12L10		
	PAL12L10A		
	PAL14L8		
	PAL14L8A		
	PAL16L6		
	PAL16L6A		
	PAL18L4		
	PAL18L4A		
	PAL20L2		
	PAL20L2A		
	PAL20C1		
	PAL20C1A		
	PAL20L10		
	PAL20L10A		
	PAL20X4		
	PAL20X4A		
	PAL20X8		
	PAL20X8A		
	PAL20X10		
	PAL20X10A		
	PAL20L8		
	PAL20L8A		
	PAL20L8B		
	PAL20R4		
	PAL20R4A		
	PAL20R4B		
	PAL20R6		
	PAL20R6A		
	PAL20R6B		
	PAL20R8		
	PAL20R8A		
	PAL20R8B		

	COP822		CA
	COP842		CA
	COP8642		CA
	COP820		CA
	COP8640		CA
	COP881		CA
	COP884		CA
	COP880		CA
	COP888		CA
	COP943		CA
	COP8742		CA
	COP8781		CA
	COP8780		CA
	COP8SAA716		
	COP8SAA720		
	COP8SAA728		
	COP8SAB720		
	COP8SAB728		
	COP8SAC720		
	COP8SAC728		
	COP8SAC740		
	COP8SAC744		
	COP8SGE720		
	COP8SGE728		
	COP8SGE740		
	COP8SGE744		
	COP8SGR720		
	COP8SGR728		
	COP8SGR740		
	COP8SGR744		
<b><u>NEC</u></b>	uPD27128		
	uPD2716		
	uPD27256		
	uPD2732		
	uPD2732A		
	Uod27hc65		
	uPD2764		
	uPD27C1000		
	uPD27C1000A		
	uPD27C1001A		
	uPD27C1001D		
	uPD27C2001		

	uPD27C256		
	uPD27C256A		
	uPD27C4001		
	uPd27C8000		
	uPD27C8001		
	uPD27C512		
	uPD27C64		
	uPD28C64		
	uPD28C64C		
	uPD27C1024		
	uPD27C1024A		
	uPD27C4096		
	78P054		
	8749H		
<b><u>NEXFLASH</u></b>	NX29F010		
<b><u>OKI</u></b>	MR27V1652D		
	MSM271000AS		
	MSM271000ZB		
	MSM27128A		
	MSM27128AS		
	MSM27128AZB-RS		
	MSM2716		
	MSM27256		
	MSM27256AS		
	MSM27256ZB-RS		
	MSM2732		
	MSM2732A		
	MSM27C402ZB		
	MSM27512		
	MSM27512AS		
	MSM27512ZB-RS		
	MSM2764		
	MSM2764A		
	MSM2764AS		
	MSM2764AZB-RS		
	MSM2764RS		
	MSM27C128AS		
	MSM27C2000		
	MSM27C256		
	MSM27C256H		
	MSM27C256HZB		
	MSM27C256ZB		

	MSM27C64AS		
	MSM2816ARS		
	MSM271000		
	MSM271024		
	MSM271024AS		
	MSM271024ZB		
	MSM27C1024		
	MSM27C1024AS		
	MSM27C2048		
	MSM27C1652CZ		
	MSM27C402ZB		
	MR27V1602		
	MR27V1652		
<b>Philips (Signetics)</b>	82S123		
	82S123A		
	82S126		
	82S126A		
	82S129		
	82S129A		
	82S130		
	82S130A		
	82S131		
	82S131A		
	82S135		
	82S137		
	82S137A		
	82S137B		
	82S140		
	82S141		
	82S147		
	82S147A		
	82LS181		
	82S181		
	82S181A		
	82S181B		
	82S181C		
	82S185		
	82S185A		
	82S185B		
	82S191		
	82S191A		
	82S191B		

	82S191C		
	82S23		
	27C010		
	27C256		
	27C512		
	27C64A		
	27C210		
	27C240		
	8582C		
	8582D		
	8582E		
	8592		
	PL22V10		
	PXAG37		
	LVT22V10		
	ABT22V10		
	PLC18V8Z		
	PLS100		
	PLS101		
	PLS152		
	PLS153		
	PLS153A		
	PLS155		
	PLS157		
	PLS159		
	PLS159A		
	PLS173		
	PLUS16L8D/-7		
	PLUS16L8-7		
	PLUS16R4D/-7		
	PLUS16R4-7		
	PLUS16R6D/-7		
	PLUS16R6-7		
	PLUS16R8D/-7		
	PLUS16R8-7		
	PLUS173B		
	PLUS173D		
	PLUS20L8D/-7		
	PLUS20L8-7		
	PLUS20R4D/-7		
	PLUS20R4-7		
	PLUS20R6D/-7		

	PLUS20R6-7		
	PLUS20R8D/-7		
	PLUS20R8-7		
	P3Z22V10		
	P5Z22V10		
	87C52		
	87C51		
	87C51FA		
	87C51FB		
	87C51FC		
	87C51GB		P64
	87C451		P22
	87C451	PLCC	P23
	87C550		P24
	87C550	PLCC	P25
	87C552		P26
	87C592		P27
	87C528		
	87C575		
	87C576		
	87C654		P41
	87C652		P41
	87C524		
	P87C591		
	87C750		
	87C751		
	87C752		
	P85C764		
	P87C51FA		
	P87C51FB		
	P87C51FC		
	P87C51RA+		
	P87C51RB+		
	P87C51RC+		
	P87C51RD+		
	P87C51XAG37		
	P87C51XAS37		
	P87C52		
	P87C54		
	P87C58		
	P87C764		
	P87LPC762		

	P89C51U		
	P89C54		
	P89C536		
	P89C538		
	P89C738		
	P89C52		
	P89C54		
	P89C58		
	P89C51RB2		
	P89C51RC2		
	P89C51RD2		
	P89C51RA+		
	P89C51RB+		
	P89C51RC+		
	P89C51RD+		
	P89C51XA-G49		
	P89C660		
	P89C662		
	P89C664		
	P89C668		
	PCD3855A		
	PXAC37		
<b>PMC</b>	PM29F002T		
<b>Quick Pulse</b>	27010		
	27011		
	27040		
	27128A		
	27256		
	27512		
	2764A		
	27210		
<b>Ricoh</b>	BR93C46		
	RD27C256		
	RD27C64		
	Rockwell		
	R2764		
	R2764C		
	R2764P		
	R27C64		
	R2816		
	BR24C01A		
	BR24C02A		

	BR24C04A		
	BR24C08A		
<b><u>Rohm</u></b>	BR24C16A		
	BR24E16		
	BR9010		
	BR9020		
	BR9040		
	BR9080		
	BR9016		
	BR93LC46/F		
	BR93LC56/F		
	BR93LC66/F		
	BR93LL46/F		
<b><u>RUSSIAN</u></b>	573RF2/5		
	57RF4-21		
	57RF4-21.5		
	573RF4-23		
	556RT6		
	556RT7		
	556RT12		
	556RT13		
	556RT14		
	556RT15		
<b><u>Samsung</u></b>	K8D3216UBM		
	K8D3216UTM		
	K8D3316UBM		
	K8D3316UTM		
	KM2816A		
	KM2816AI		
	KM2817A		
	KM2817AI		
	KM2864A		
	KM2864AH		
	KM2865A		
	KM2865AH		
	KM28C16		
	KM28C17		
	KM28C256		
	KM28C64A		
	KM28C65A		
	KM28DU160B/T		
	KM28U800-B		

	KM28U800-T		
	KM28U160		
	KM29W040		
	KM29W8000		
	KM29W1600		
	KM29W3200		
	KM29W6400		
	KM29W32000		
	KM5MU1620		
	KM93C06		
	KM93C07		
	KM93C46		
	KM93C56		
	KM93C66		
	KM29C010		
	KM29U128T		
	KM29U256T		
	KM5MU0820		
	KM5AU1620-B		
	KM5AU1620-T		
	KM5AU1621-B		
	KM5AU1621-T		
	KS24C010		
	KS24C011		
	KS24C020		
	KS24C021		
	KS24C040		
	KS24C041		
	KS24C080		
	KS24C081		
	KS24L161		
	KS24L321		
	KS24L641		
	KS88P0416		
	KS88P0424		
	KS57P0616	QFP44	
	KS57P3204	QFP64	
	KS57P21208	QFP44	
	KS57P4104	QFP44	
	KS57P4303	QFP44	
	KS57P5208	QFP44	
	KS86P6008	QFP44	

	KS88P6116	QFP44	
	KS86P6008	QFP44	
	KS86P6408	QFP44	
	KS86P0004	QFP44	
	KS57P0408	QFP44	
	KS57P2304	QFP64	
	KS88P0716	QFP64	
	KS57P2308	QFP80	
	KS57P2316	QFP80	
	KS57P2916	QFP80	
	KS57P21408	QFP100	
	KS57P21632	QFP100	
	KS88P2148	QFP80	
	KS88P2416	QFP80	
	KS88P2432	QFP80	
	KS88P4304	DIP20	
	KS88P4504	QFP80	
	KS88P4632	QFP64	
	KS88P463	SDIP68	
	KS88P4716	QFP44	
	KS88P4716	SDIP42	
	KS88P8324	SDIP42	
	KS88P8432	SDIP42	
	KS57P21208	SDIP42	
	KS57P21516	QFP100	
	KS57P21708	QFP64	
	KS57P21832	QFP100	
	KS57P5616	QFP100	
	KS57P5404	SDIP24	
	KS57P0504	SDIP30	
	KS57P4204	SDIP30	
	KS57P4304	SDIP42	
	KS57P5308	SDIP30	
	KS57P5312	SDIP30	
	KS86F4404		
	KS86F4504		
	KS86P4004	SDIP30	
	KS86P4208	SDIP30	
	KS86P6104	DIP20	
	KS57P0616	SDIP42	
	KS57P4104	SDIP42	
	KS57P5208	SDIP42	

	KS88P6232	SDIP42	
	KS57P5116	SDIP68	
	KS57P5532	SDIP68	
	KS88P0716	SDIP68	
	KS57P5404	SOP24	
	KS86P4104	SOP24	
	KS86P6104	SOP24	
	KS57P0504	SOP32	
	KS57P5308	SOP32	
	KS57P5312	SOP32	
	KS86P4004	SOP32	
	KM5AU1620-B		
	KM5AU1620-T		
	KM5AU1621-B		
	MK29W040		
	MK29W8000		
	MK29W1600		
	MK29W3200		
	MK29W6400		
	CPL16L8		
	CPL16R4		
	CPL16R6		
	CPL16R8		
	CPL20L10		
	CPL20L8		
	CPL20R4		
	CPL20R6		
	CPL20R8		
	CPL22V10		
<b>SANYO</b>	LE28F1101T		
	LE28FV1101T		
<b>Seeq</b>	27128		
	27256		
	2764		
	27C256		
	2804A		
	2816A		
	2816AH		
	2817A		
	2817AH		
	2864		
	2864H		

	28C010		
	28C256		
	28C256A		
	28HC64		
	28C64		
	28C64A		
	28C65		
	28C256AH		
	28HC256		
	28HC256H		
	5213		
	52B13		
	52B13H		
	52B33		
	52B33H		
	55B33		
	55B33H		
	E28C64		
	E52B13		
	E52B13H		
	E52B33		
	E52B33H		
	M52B13H		
	M52B33		
	M52B33H		
	M28C010		
	M28C010A		
<b><u>SEIKO</u></b>	S24C01A		
	S24C02A		
	S24C04A		
<b><u>SGS-Thomson</u></b>	ET2716		
	ETC2716		
	ETC2732		
	M24128		
	M24256		
	M24C01		
	M24C02		
	M24C04		
	M24C08		
	M24C16		
	M24C32		
	M24C64		

	M24LC21B		
	M25P10		
	M27128A		
	M2716		
	M27256		
	M2732A		
	M27512		
	M2764		
	M2764A		
	M27C64A		
	M27C800		
	M27C800		PLCC
	M27C801		
	M27C160		
	M27C160		PLCC
	M27C320		
	M27C322		
	M27C1000		
	M27C1001		
	M27C1024		
	M27C2001		
	M27C256B		
	M27C4001		
	M27C4002		
	M27C405		
	M27C512		
	M27V101		
	M27V402		
	M27V160		
	M27V800		
	M27W101		
	M27W322		
	M27W401		
	M27W402		
	M27W512		
	M27W801		
	M28C64		
	M28F101		
	M28F201		
	M28F102		
	M28F256		
	M28F256A		

	M28F512		
	M28F410	(S44)	
	M28F410	(S44)	
	M28F410	(S44)	
	M28F410	(S44)	
	M29F002T		
	M29F010B		
	M29F100B	(S44)	
	M29F100B	(T48)	
	M29F100B	(CIC)	CIC-40
	M29F100T	(S44)	
	M29F100T	(T48)	
	M29F100T	(CIC)	CIC-40
	M29F102B		
	M29F102B	TSOP40	
	M29F200B	(S44)	
	M29F200B	(T48)	
	M29F200B	(CIC)	CIC-40
	M29F200T	(S44)	
	M29F200T	(T48)	
	M29F200T	(CIC)	CIC-40
	M29F400B	(S44)	
	M29F400B	(T48)	
	M29F400B	(CIC)	CIC-40
	M29F400T	(S44)	
	M29F400T	(T48)	
	M29F400T	(CIC)	CIC-40
	M29F800AB/AT		
	M29F160BB/BT		
	M29W512B		
	M29W010B		
	M29W040		
	M29W400B	(S44)	
	M29W400B	(T48)	
	M29W400B	(CIC)	CIC-40
	M29W400T	(S44)	
	M29W400T	(T48)	
	M29W400T	(CIC)	CIC-40
	M29W800B	(S44)	
	M29W800B	(T48)	
	M29W800B	(CIC)	CIC-40
	M29W800T	(S44)	

	M29W800T	(T48)	
	M29W800T	(CIC)	CIC-40
	M29W800AB		
	M29W800AT		
	M50FW040		
	M87C257		
	M9306		
	M9346		
	M93C06		
	M93C46		
	M93C56		
	M93C66		
	M93C76		
	M93C86		
	M95010		
	M95020		
	M95040		
	M95010R		
	M95020R		
	M95040R		
	M95080		
	M95160		
	M95320		
	M95640		
	M95080R		
	M95160R		
	M95320R		
	M95640R		
	ST24C02/R		
	ST24W02		
	ST25C02		
	ST25W02		
	ST27128A		
	ST27256		
	ST2764A		
	ST27C256		
	ST93C46A/C/T		
	ST93C47C/T		
	ST93C56/C		
	ST93C57C		
	TS27C256		
	TS27C64		

	TS27C64A		
	TS28C16A		
	TS28C17A		
	TS28C64		
	ST62T01C		
	ST62E20		
	ST62E20B		
	ST62E25		
	ST62E25B		
	ST62E60		
	ST62E60B		
	ST62E65		
	ST62E65B		
	ST62T10		
	ST62T15		
	ST62T20		
	ST62T20B		
	ST62T20C		
	ST62T25		
	ST62T25B		
	ST62T25C		
	ST62T30B		
	ST62T40B		
	ST62T60		
	ST62T60B		
	ST62T60BB		
	ST62T65		
	ST62T65B		
	ST62T00C		
	ST62T01C		
	ST62T03C		
	ST62T08C		
	ST62T09C		
	ST62T10C		
	ST62T20C		
	ST62T25C		
	ST65T65BB		
	ST86E60C		
	ST86E65C		
	ST86T60C		
	ST86T65C		
	MK48T02		

	MK48T08		
	MK48T12		
	MK48T18		
	MK48Z02		
	MK48Z08		
	MK48Z12		
	MK48Z18		
	GAL16V8		
	GAL16V8A		
	GAL20V8		
	GAL20V8A		
<b>Sharp</b>	LH57128		
	LH57256		
	LH5764		
	LH28F008SAT		
	LH28F016SCT		
	LH28F008SC		
	LH28F008SCH		
	LH28F016SU		
	LH28F032SU		
	LH28F320		
	LH28F400SU		
	LH28F800SU		
	LH28F800B		
	LH28F160B		
	LH28F160S3		
	LH28F160S5NS		
	LH28F160SPN		
	LRS1316A		
	LRS1325A		
	LRS1329		
	LRS1336		
	LRS1349		
	LRS1350		
	LRS1306		
	LRS1337		
	LRS1342		
<b>SIEMENS</b>	SABC501-1E		
	SABC505A-4E		
	SABC504-2E		
	SDA2506		
<b>SMOS</b>	SPM27128		

	SPM27128C		
	SPM27C256		
	SPM27C64		
	SPM27C64H		
	SPM2864C		
<b>Synertek</b>	SY2716		
<b>S.S.T.</b>	SST27SF256		
	SST27SF512		
	SST27SF010		
	SST27SF020		
	SST27VF010		
	SST29EE010/A		
	SST29LE010/A		
	SST29VE010/A		
	SST29EE020/A		
	SST29LE020/A		
	SST29VE020/A		
	SST29EE512/A		
	SST29LE512/A		
	SST29VE512/A		
	PH28EE011		
	SST28SF040		
	SST28SF040A		
	SST28VF040		
	SST28VF040A		
	SST28LF040A		
	SST28F040		
	PH29EE010		
	PH29EE020		
	PH29LE010		
	PH29LE020		
	PH29EE512		
	29SF512		
	29SF010		
	29SF020		
	31LH021		
	31LH041		
	32VF802		
	32VF162		
	32VF164		
	SST34VF1621		
	SST34VF1622		

	SST34VF1641		
	SST34VF1642		
	SST34VF1621		
	SST36VF1601		
	SST36VF1602		
	SST37VF010		
	SST37VF020		
	SST37VF040		
	SST37VF512		
	SST38UF166		
	SST38VF166		
	SST39LF200A		
	SST39LF400A		
	SST39LF800A		
	SST39LH010		
	SST39LH020		
	SST39LH040		
	SST39LH512		
	SST39SF020P		
	SST39SF040		
	SST39SF040P		
	SST39VF010		
	SST39VF020		
	SST39VF020P		
	SST39VF040P		
	SST39VF200A		
	SST39VF400A		
	SST39VF800A		
	SST39VF400/Q		
	SST39VF800/Q		
	SST39VF160/Q		
	SST39VF512		
	SST39VF016/Q		
	SST49LF002A		
	SST49LF004A		
	SST49LV020		
	SST49LV040		
	SST49LV080		
	49LF002		
	49LF004		
	49LF008		
	89C54		

	89C58		
	89F54		
	89F58		
	89F59		
	SYNCMOS		
	F29C51001B		
	F29C51001T		
<b><u>TEMIC</u></b>	TSC71RBX2		
	TSC71RCX2		
	TSC71RDX2		
	TSC251G1		
	TSC251G2		
	TSC87C51		
	TS87C5101		
	TSC87C51RD2		
	TSC87C52		
	TSC87251G1A		
	TS87C51RB2/RC2/RD2		
	TS87C51U2		
	TS89C52X2		
	TS89C54		
	TS89C58		
<b><u>T.I.</u></b>	SMJ2516		
	SMJ2532		
	SMJ27C256		
	SMJ27C512		
	TMS2516		
	TMS2532		
	TMS2532A		
	TMS27128		
	TMS2732A		
	TMS2764		
	TMS27C010		
	TMS27C020		
	TMS27C240		
	TMS27C010A		
	TMS27C040		
	TMS27C128		
	TMS27C256		
	TMS27C32		
	TMS27C512		
	TMS27C64		

	TMS27P32A		
	TMS27P64		
	TMS27P32A		
	TMS27P64		
	TMS27PC010		
	TMS27PC128		
	TMS27PC256		
	TMS27PC32		
	TMS27P32A		
	TMS27PC512		
	TMS27PC64		
	TMS28C64		
	TMS27C210		
	TMS27C210A		
	TMS27PC210		
	TMS28F200ASB	(S44)	
	TMS28F200AST	(S44)	
	TMS28F200AFB	(S44)	
	TMS28F200AFT	(S44)	
	TMS28F200AZB	(S44)	
	TMS28F200AZT	(S44)	
	TMS29LF040		
	TMX29F010		
	TMX29F040		
	EP1810		P31
	EP1830		P31
	EP610		
	EP910		
	PAL16L8A		
	PAL16L8A-2		
	PAL16R4A		
	PAL16R4A-2		
	PAL16R6A		
	PAL16R6A-2		
	PAL16R8A		
	PAL16R8A-2		
	TIBPAL16N8-7		
	TIBPAL16L8H-15		
	TIBPAL16L8-10		
	TIBPAL16L8-12		
	TIBPAL16L8-15		
	TIBPAL16L8-25		

	TIBPAL16L8-7		
	TIBPAL16L8-5		
	TIBPAL16R4H-15		
	TIBPAL16R4-10		
	TIBPAL16R4-12		
	TIBPAL16R4-15		
	TIBPAL16R4-25		
	TIBPAL16R4-7		
	TIBPAL16R4-5		
	TIBPAL16R6H-15		
	TIBPAL16R6-10		
	TIBPAL16R6-12		
	TIBPAL16R6-15		
	TIBPAL16R6-25		
	TIBPAL16R6-7		
	TIBPAL16R6-5		
	TIBPAL16R8H-15		
	TIBPAL16R8-10		
	TIBPAL16R8-12		
	TIBPAL16R8-15		
	TIBPAL16R8-25		
	TIBPAL16R8-7		
	TIBPAL16R8-5		
	TIBPAL20L10		
	TIBPAL20L8-5		
	TIBPAL20L8-15		
	TIBPAL20L8-25		
	TIBPAL20L8-7		
	TIBPAL20L8-10		
	TIBPAL20R4-15		
	TIBPAL20R4-25		
	TIBPAL20R4-7		
	TIBPAL20R4-5		
	TIBPAL20R4-10		
	TIBPAL20R6-5		
	TIBPAL20R6-15		
	TIBPAL20R6-25		
	TIBPAL20R6-7		
	TIBPAL20R6-10		
	TIBPAL20R8-15		
	TIBPAL20R8-25		
	TIBPAL20R8-7		

	TIBPAL20R8-5		
	TIBPAL20R8-10		
	TIBPAL20X10		
	TIBPAL20X4		
	TIBPAL20X8		
	TIBPAL22V10		
	TIBPAL22V10A		
	TIBPAL22V10-15		
	TIBPAL22VP10-20		
	TIBPAL22VP10-25		
	TICPAL22V10Z		(ZP)
	TICPAL22V10Z		(TB)
	TMS7742		
	TMS77C82		
<b>Toshiba</b>	TC541000J		
	TC541000P		
	TC541001J		
	TC541001P		
	TC54256AF		
	TC54256AP		
	TC544000P		
	TC54512AP		
	TC54H1024P		
	TC571000AD		
	TC571000D		
	TC571001AD		
	TC571001D		
	TC57256		
	TC57256AD		
	TC57256ADI		
	TC57256D		
	TC574000D		
	TC574000DI		
	TC574200D		
	TC578200D		
	TC57512AD		
	TC57H1000AD		
	TC57H1001AD		
	TC57H256D		
	TC58VFB160FT		
	TMM24128A		
	TMM24256A		

	TMM24256B		
	TMM24512		
	TMM24512A		
	TMM2464A		
	TMM27128		
	TMM27128A		
	TMM27128AD		
	TMM27128ADI		
	TMM27128D		
	TMM27128DI		
	TMM27256		
	TMM27256A		
	TMM27256AD		
	TMM27256ADI		
	TMM27256BD		
	TMM27256BDI		
	TMM27256D		
	TMM27256DI		
	TMM2732		
	TMM27512		
	TMM27512AD		
	TMM27512ADI		
	TMM27512D		
	TMM27512DI		
	TMM2764		
	TMM2764A		
	TMM2764AD		
	TMM2764ADI		
	TMM2764D		
	TMM2764DI		
	TC571024D		
	TC574096D		
	TC57H1024AD		
	TC57H1024D		
	TC57H1025AD		
	TMP87P241VN		
	TMP88PS49F		
<b><u>VANTIS</u></b>	M4-128N/64		
<b><u>VLSI</u></b>	VT27C256		
	VT27C512		
	VT27C64		
<b><u>White Micro</u></b>	WE128K8		

	WE256K8		
	WE512K8		
<b><u>Winbond</u></b>	W27C512		
	W27CE010		
	W27E256		
	W27E257		
	W27E512		
	W27F256		
	W27F512		
	W27F010		
	W27E020		
	W27F040		
	W27F256		
	W27E4096		
	W27E4096	(P44)	
	W29EE010		
	W29EE011		
	W29EE021		
	W29EE512		
	W29C101		
	W29C101	-44	
	W29C020		
	W29C040		
	W29F102		
	W77E58		
	W78E62		
	W78E516		
	W78E516B		
	W78LE51		
	W78LE52		
	W78LE54		
	W78LE812		
<b><u>W.S.I</u></b>	PSD301	(P44)	
	PSD302	(P44)	
	PSD311	(P44)	
	PSD312	(P44)	
	WS27C010L		
	WS27C040L		
	WS27C128F		
	WS27C256F		
	WS27C256L		
	WS57C51C		

	WS27C512F		
	WS27C512L		
	WS27C64F		
	WS27C64L		
	WS57C128F		
	WS57C256F		
	WS57C512F		
	WS57C64F		
	WS27C210L		
	57C49B		
	57C49C		
<b><u>Xicor</u></b>	X20C04		
	X20C16		
	X24001		
	X2402		
	X2404		
	X24C00		
	X24C01		
	X24C01A		
	X24C02		
	X24C04		
	X24C08		
	X24C16		
	X2416		
	X24128		
	X24164		
	X24320		
	X24645		
	X25043		
	X25057		
	X25097		
	X25138		
	X25163		
	X25165		
	X25170		
	X25323		
	X25325		
	X25330		
	X25643		
	X25644		
	X24645		
	X25648		

	X25650		
	X25F047		
	X25F087		
	X2804A		
	X2816A		
	X2816B		
	X2816C		
	X28256		
	X28C256		
	X2864A		
	X2864B		
	X2864H		
	X28C010		
	X28C256		
	X28HC256		
	X28C512		
	X28C513		
	X28LC512		
	X28LC513		
	X28C64		
	XM28C010		
	X5163		
	X5165		
	X5163AG		
	X5163AG		
	X5165AH		
	X5165AH		
	X68C64		
	X68257		
	X76F640		
	X76F641		
	X76F100		
	X84041		
	X84129		
	X84161		
	X84641		
	X88257		
	X88064		
	X88C64		
	X9315		
<b>Xilinx</b>	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	<b>P16</b>
	XC73108		P16
	XC9536		
	XC9536XL		
	XC9572		
	XC9572XL		
	XC95108		
<b>Zilog</b>	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		
<b>RAM(TEST)</b>	DRAM41416		
	DRAM4164		
	DRAM41464		
	DRAM41256		
	DRAM414256		
	DRAM41000		
	SRAM6116		
	SRAM6164		
	SRAM61256		
	SRAM610000		
<b>Logic IC(TEST)</b>	7400		
	7401		
	7402		

	7403		
	7404		
	7405		
	7406		
	7407		
	7408		
	7410		
	7411		
	7412		
	7413		
	7414		
	7415		
	7418		
	7420		
	7422		
	7425		
	7427		
	7430		
	7432		
	7437		
	7438		
	7440		
	7442		
	7447		
	7451		
	7455		
	7474		
	7475		
	7476		
	7485		
	7486		
	7492		
	7493		
	74107		
	74109		
	74112		
	74113		
	74123		
	74125		
	74126		
	74132		
	74133		

74136		
74137		
74138		
74139		
74140		
74148		
74151		
74153		
74158		
74160		
74161		
74162		
74163		
74164		
74165		
74166		
74173		
74174		
74175		
74190		
74191		
74192		
74194		
74195		
74240		
74241		
74243		
74244		
74245		
74253		
74257		
74258		
74259		
74260		
74266		
74273		
74280		
74283		
74293		
74299		
74365		
74366		

74367		
74368		
74373		
74374		
74375		
74377		
74386		
74640		
4002		
4011		
4013		
4015		
4016		
4023		
4025		
4027		
4028		
4043		
4049		
4050		
4051		
4066		
4068		
4070		
4071		
4072		
4073		
4075		
4077		
4078		
4081		
4082		
4501		
4503		
4506		
4512		
4518		
4519		
4532		
4572		
-3152		