

## PROGRAMER TOP 2008



TOP2008 is a multi-functional universal USB programmer designed for developing MCU/MPU EPROM EEPROM, FLASH and writing all kinds of memories with the characteristics of small size, low power consumption and high reliability.

### Features:

Support 2.5~6.5V device and over 1500 devices supported  
Program a wide range of chip type: EPROM, EEPROM, MPU/MCU, SRAM test, Serial memory, TTL/CMOS, PLD, Microchip PIC and etc.  
Use USB as power source, no AC adaptor is needed.  
USB communication with PC on data transfer rate 12 MHz/s.  
Build-in surge protection circuit to protect programmer and device.  
Full pin connectivity verification.  
Signature ID recognition.  
Removable & changeable 40pin narrow rib ZIF  
A build-in internal timer is used for programming device.  
10 Levels USB current load test.

### Specifications:

- 1 Software: TopWin (for windows98se/2000/ME/XP)
- 2 Size: 142 x 103 x 23mm
- 3 Weight: 250g
- 4 Power: < 2.5w (5v/500mA)
- 5 Locking bed: 40-pin imported socket with high quality (replaceable).

### Support list:

2716-12.7V, 2716-21V, 2716-25V, 2732-12.7V, 2732-21V, 2732-25V, 2764-12.7V, 27C64-12.7V,P27,  
2764-21V, 2764-25V, 27128-12.7V,P27, 27C128-12.7V,P27, 27128-21V, 27256-12.7V,P27,  
27C256-12.7V,P27, 27512-12.7V,P27, 27C512-12.7V,P27, 27513-12.7V,P27, 27C513-12.7V,P27,  
27C010-12.7V,P27, 27C020-12.7V,P27, 27C040-12.7V,P27, 27C080-12.7V,P27, 27C801-12.7V,

### EPROM-AMD

Am2716-12.7V,P27, Am2716-21V, Am2716-25V, Am2732-12.7V,P27, Am2732-21V,

Am2732-25V,  
Am2764-21V, Am2764A-12.5V,P27, Am27C64-12.5V,P27, Am2128-21V, Am27128A-12.5V,  
Am27C128-12.7V,P27,  
Am27256HV-21V, Am27C256-12.75V, Am27C256P-12.75V, Am27H256-12.75V, Am27512-  
12.75V,  
Am27512/L-12.75V, Am27C010-12.75V, Am27H010-12.75V, Am27HB010-12.75V,  
Am27C020-12.75V,  
Am27C040-12.75V, Am27C080-12.7V,

#### **EPROM-ATMEL**

AT2716-12.7V,P27, AT2716-21V, AT2716-25V, AT2732-12.7V,P27, AT2732-21V, AT2732-  
25V,  
AT27HC64-12.7V, AT27HC64L-12.7V, AT27C128-12.7V, AT27C256-12.7V, AT27HC256-  
12.7V,  
AT27HC256-12.7V, AT27C512-12.7V, AT27C512R-12.7V, AT27C513-12.7V, AT27C513R-  
12.7V,  
AT27C010/L-12.7V, AT27C011-12.7V, AT27C040-12.7V, AT27C080-12.7V,

#### **EPROM-CATALYST**

CAT2764A-12.7V, CAT27128A-12.7V, CAT27C128-12.7V,P27, CAT27C256-12.7V,  
CAT27512-12.7V,  
CAT27C010-12.7V,

#### **EPROM-FUJITSU**

MBM2716-12.7V,P27, MBM2716-21V, MBM2716-25V, MBM2732-12.7V,P27, MBM2732-  
21V, MBM2732-25V,  
MBM2764-21V, MBM27C64-21V, MBM27128-21V, MBM27C128-21V, MBM27256-12.7V,  
MBM27C256A-12.7V,  
MBM27C512-12.7V, MBM27C1000-12.7V, MBM27C1001-12.7V, MBM27C4001-12.7V,  
MBM27C080-12.7V,

#### **EPROM-GENERAL**

2716-12.7V,P27, 2716-21V, 2716-25V, 2732-12.7V,P27, 2732-21V, 2732-25V, 2764-21V,  
27C64-21V, 2764A-12.7V, 27C64-12.7V, 27128-21V, 27128A-12.7V, 27C128-12.7V,P27,  
27256,  
27C256, 27256HV-21V, 27512, 27C512, 27512HV-21V, 27513,P27, 27C513,P27, 27010,  
27C010,P27,  
27011, 27C011,P27, 27101,P27, 27C101,P27, 27C020,P27, 27C040,P27, 27C080,P27,

#### **EPROM-HITACHI**

HN27C64-21V, HN27128AG-12.7V, HN27128P-21V, HN27C256,P27, HN27C512,P27,  
HN27C101,P27,  
HN27C301,P27,

#### **EPROM-ST**

27128, 27C128, 27256, 27C256, 27512, 27C512, 27C1000, 27C1001, 27C405, 27C4001,  
27C801,

#### **EPROM-HYUNDAI**

27C64-12.7V, 27C128-12.7V, 27C256-12.7V, 27C512,P27, 27C010,P27, 27C020,P27,

#### **EPROM-ICT**

27CX256,P27, 27CX128,P27, 27CX256,P27, 27CX512,P27, 27CX010,P27, 27CX020,P27,

#### **EPROM-INTEL**

i2716-12.7V,P27, i2716-21V, i2716-25V, i2732-12.7V,P27, i2732-21V, i2732-25V, i2764-21V,  
i27C64-12.7V, i2764A-12.7V, i87C64-12.7V, i27128-21V, i27A128-12.7V, i27C128-12.7V,  
i27C256-12.7V, i87C256-12.7V, i27C512,P27, i27C010,P27, i27010,P27, i27010A,P27,  
i27020,P27, i27C040,P27, i27C080,P27,

#### **EPROM-MATSUSHITA**

27C256,P27, 27C128,P27, 27C256,P27, 27C512,P27, 27C010,P27, 27C020,P27,

#### **EPROM-MICROCHIP**

27C64-12.7V, 27C128-12.7V, 27HC256,P27, 27C512,P27, 27513,P27, 27C513,P27,  
27C010,P27,  
27C020,P27,

#### **EPROM-MITSUBISHI**

M5L2764-21V,P27, M5L27C128-12.7V, M5M27128/K-21V, M5M27K-12.7V, M5MC256-  
12.7V, M5M27C512,P27,  
M5M27K512,P27, M5M27C100,P27, M5M27C101,P27, M5M27C102,P27, M5M27C201,P27,

M5M27C401,P27,

EPROM-MXIC

MX2716-12.7V,P27, MX2716-21V, MX2716-25V, MX2732-12.7V,P27, MX2732-21V,  
MX2732-25V,  
MX27C256-12.7V, MX27C512-12.7V, MX27C1000-12.7V,

EPROM-NEC

D2716-12.7V,P27, D2716-21V, D2716-25V, D2732-12.7V,P27, D2732-21V, D2732-25V,  
D2764-21V,  
D27C64-12.7V, D27128-21V, D27C256-21V, D27C256A-12.7V, D27C512,P27,  
D27C1000,P27,  
D27C1000A,P27, D27C1001,P27, D27C1001A,P27, D27C2001,P27, D27C4001,P27,

EPROM-NS

NM2716-12.7V,P27, NM2716-21V,P27, NM2716-25V, NM2732-12.7V,P27, NM2732-21V,  
NM2732-25V,  
NM27LC64-12.7V, NM27C256-12.7V, NM27LC256-12.7V, NMC87C257-12.7V,  
NM27LC512,P27,  
NM27LV512,P27, NM27P512,P27, NMC27C64,P27, NM27C128/B-12.7V, NMC27C128/B-  
12.7V, NMC27CP128-12.7V,  
NMC27C256-12.7V, NMC27C256B-12.7V, NM27C512,P27, NMC27C512,P27,  
NMC27C512A,P27, NMC27C010,P27,  
NMC27C020,P27,

EPROM-OKI

MSM2716-12.7V,P27, MSM2716-21V, MSM2716-25V, MSM2732-12.7V,P27, MSM2732-  
21V, MSM2732-25V,  
MSM2764A-12.7V, MSM2764AS-21V, MSM27128A-12.7V, MSM27128AS-21V,  
MSM27256AS-12.7V,  
MSM27512AS,P27, MSM271000,P27,

EPROM-RICOH

27C64-21V, 27C256-12.7V,

EPROM-SAMSUNG

KM23C4100,P27,

EPROM-SEEQ

DQ2764-21V,P27, DQ27128-21V, DQ27C256-12.7V,

EPROM-SGS\_THOMSON

M27128A-12.7V, M27256,P27, M27CC512,P27, M27C1000,P27, M27C1001,P27,  
M27C2001,P27,  
M27C4001,P27,

EPROM-SIGNETICS

27C64A,P27, 27C128,P27, 27C512,P27,

EPROM-SMOS

27C64H,P27, 27128H,P27, 27C256H,P27,

EPROM-SONY

CXK27C256,P27, CXK27C512,P27,

EPROM-TI

TMS2564-25V,P27, TMS2764-21V,P27, TMS27C64-12.7V, TMS27PC64-12.7V, TMS27128-  
21V,  
TMS27C128-12.7V, TMS27CP128-12.7V, TMS27C256,P27, TMS27PC256,P27,  
TMS87257,P27, TMS27C512,P27,  
TMS27CP512,P27, TMS27C010,P27, TMS27PC010,P27, TMS27C020,P27,  
TMS27PC020,P27, TMS27C040,P27,  
TMS27PC040,P27,

EPROM-TOSHIBA

TMM2716-25V, TMM2732-21V, TMM2764-21V, TMM2764A-12.7V, TMM27128-21V,  
TMM27128A,P27,  
TMM27256A,P27, TMM27256AD,P27, TMM27512,P27, TC541000,P27, TC541001,P27,  
TC571000,P27,  
TC571001,P27, TC532000,P27, TC572000,P27, TC534000,P27, TC574000,P27,

EPROM-VLSI

VT2716-25V,P27, VT2732-21V,P27, VT27C64,P27, VT27C128,P27, VT27C256,P27,  
VT27C512,P27,

#### EPROM-WSI

WS2716-25V, WS2732-21V, WS27C512F,P27, WS27C64F,P27, WS57C64F,P27,  
WS27C128F,P27,  
WS57C128F,P27, WS57C128FB,P27, WS27C256F,P27, WS27C256L,P27,  
WS57C256F,P27, WS57C256FB,P27,  
WS27C512L,P27, WS27C010F,P27, WS27C010L,P27, WS57C65,P27, WS57C257,P27,

#### EEPROM-AMD

AM29C257, AM28F256, AM28F512, AM28F010/A, AM28F020/A, AM29F256, AM29F512,  
AM29F010,  
AM29F010B, AM29F020, AM29F020B, AM29F040, AM29F040B, AM29LV010B,  
AM29LV020B, AM29LV040B,  
AM29F001B, AM29F001BB, AM29F001T, AM29F001BT, AM29F002B, AM29F002BB,  
AM29F002T, AM29F002BT,  
AM29F002NB, AM29F002NT, AM29LV001B, AM29LV001T, AM29LV001BB, AM29LV001BT,  
AM29LV002B,  
AM29LV002BB, AM29LV002T, AM29LV002BT,

#### EEPROM-AMIC

A29512, A29010, A29020, A29040, A29001, A290011, A29002, A290021,

#### EEPROM-ASD

AE29F1008, AE29F2008, AE29F4008, AE49F1008, AE49F2008,

#### EEPROM-MACRONIX

MX28F1000, MX28F2000, MX29F010, MX29F020, MX29F040, MX29F001T/B,  
MX29F002T/B, MX29F004T/B,

#### EEPROM-ATMEL

AT2816, AT2816A, AT28C16, AT2817A, AT28C17, AT2864A, AT28C64, AT28HC64,  
AT28C64X,  
AT28C64L, AT28PC64, AT28C64B, AT28HC64B, AT28LV64B, AT28C256, AT28C257,  
AT28C64,  
AT28HC64, AT28C64X, AT28C64L, AT28PC64, AT28C512, AT28C010, AT28C020,  
AT28C040, AT28C040A,  
AT28F256, AT28F257, AT28F512, AT28F010, AT28F020, AT29C256, AT29C257,  
AT29C512, AT29C010,  
AT29C010A, AT29C020, AT29C040, AT29C040A, AT29LV512, AT29LV010, AT29LV010A,  
AT29LV020,  
AT29LV020A, AT29LV040, AT29LV040A, AT49F010, AT49F020, AT49F040, AT49BV020,  
AT49BV040,  
AT49F001,P29F640, AT49F002,P29F640, AT49F004, AT49LW040\*32PLCC,  
AT49LW080\*32PLCC,  
AT49LL020\*32PLCC, AT49LL040\*32PLCC, AT49LL080\*32PLCC,

#### EEPROM-ACTRANS

AC39LV512, AC39LV010, AC39LV020, AC39LV040,

#### EEPROM-WINBOND

W27E257, W27E512, W27E010, W27E020, W27E040, W27C257, W27C512, W27C010,  
W27C020,  
W27C040, W27F257, W27F512, W27F010, W27F020, W27F040, W28F256, W28F257,  
W28F512,  
W28F010, W28F020, W29EE010, W29EE011, W29EE012, W29C010, W29C020, W29C040,  
W49F010,  
W49F020, W49F040, W49L010, W49L020, W49L040, W49F001, W49F001N, W49F001T,  
W49F001NT,  
W49F002, W49F002N, W49F002T, W49F002NT, W49F002U, W49L001, W49L002,  
W49V002, W49V004,  
W39V040A, W39V040FA, W39V080F, W39V080FA,

#### EEPROM-CATALYST

CAT2816, CAT2816A, CAT28C16, CAT2817A, CAT28C17, CAT2864A, CAT28C64,  
CAT28HC64, CAT28C256,  
CAT28F512/I, CAT28F512V5/I, CAT28F010/I, CAT28F010V5/I, CAT28F020/I,

#### EEPROM-DALLAS

DS1220Y, DS1220AB, DS1220AD, DS1225AB, DS1225AD, DS1225D, DS1225DE,  
DS1225Y, DS1230Y,

DS1230AB, DS1245Y, DS12449, DS1250Y,

EEPROM-EON

EN29F040, EN29F040A, EN29F004B, EN29F004T, EN29F001B, EN29F001T, EN29F002B,  
EN29F002NB,  
EN29F002T, EN29F002NT,

EEPROM-EXEL

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, 28C256,

EEPROM-EMTC

EM29SF002,

EEPROM-FUJITSU

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, 28F256, 28F512, 28F010/A,  
28F020/A, 29F010, 29F010A, 29F010B, 29F020, 29F020A, 29F020B, 29F040, 29F040A,  
29F040B,

MBM29DL800TA\*34DIP, MBM29F001B, MBM29F001T, MBM29F002B, MBM29F002T,

EEPROM-HYNIX

HY29F010, HY29F010B, HY29F020, HY29F020B, HY29F040, HY29F040B, HY29LV010B,  
HY29LV020B,

HY29LV040B, HY29F001B, HY29F001BB, HY29F001T, HY29F001BT, HY29F002B,  
HY29F002BB,

HY29F002T, HY29F002BT, HY29F002NB, HY29F002NT, HY29LV001B, HY29LV001T,  
HY29LV001BB,

HY29LV001BT, HY29LV002B, HY29LV002BB, HY29LV002T, HY29LV002BT,

EEPROM-HITACHI

HN58C65, HN58C66, HN58C256, HN58C256A, HN58C1001,

EEPROM-INTEL

i2816, i2816A, i28C16, i2817A, i28C17, i2864A, i28C64, i28HC64, i28F256A, i28F256,  
i28F512, i28F010, i28F020, i28F040, i28F001BX-T, i28F001BX-B, N82802AA\*32PLCC,  
N82802AB\*32PLCC,  
N82802AC\*32PLCC,

EEPROM-ISSI

IS28F010, IS28F020,

EEPROM-MICROCHIP

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64,

EEPROM-MITSUBISHI

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, M5M28F101P, M5M28F102P,  
M5M28C64A,

EEPROM-NEC

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, 28C256,

EEPROM-OKI

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64,

EEPROM-SAMSUNG

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64,

EEPROM-SEEQ

2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, 28C256/A, 28C010,

EEPROM-SGS-THOMSON

GS28F256, M28F256A, M28F512, M28F101, M28F102, M28F1001, M28F201,

EEPROM-ST

M50FW002\*32PLCC, M50FW040\*32PLCC, M50FW080\*32PLCC,

EEPROM-SST

SST27SF256, SST27SF512, SST27SF010, SST27SF020, SST27VF010, SST27VF020,  
SST37VF512,

SST37VF010, SST37VF020, SST37VF040, SST2816, SST2816A, SST28C16, SST2817A,  
SST28C17,

SST2864A, SST28C64, SST28HC64, SST28C256/A, SST28SF040A, SST28VF040A,  
SST29EE512,

SST29EE010, SST29EE020, SST29EE040, SST29LE512, SST29LE010, SST29LE020,  
SST29LE040,

SST29VE512, SST29VE010, SST29VE020, SST29VE040, SST29SF512, SST29SF010,  
SST29SF020,

SST29SF040, SST29VF512, SST29VF010, SST29VF020, SST29VF040, M29F001B,

M29F001T, M29F002B,  
M29F002T, M29W001B, M29W001T, M29W002B, M29W002T, SST39SF512, SST39SF010,  
SST39SF020,  
SST39SF040, SST39LF512, SST39LF010, SST39LF020, SST39LF040, SST39VF512,  
SST39VF010,  
SST39VF020, SST39VF040, SST49LF002, SST49LF002A, SST49LF003, SST49LF003A,  
SST49LF004,  
SST49LF004A, SST49LF008, SST49LF008A, SST49LF002B, SST49LF003B,  
SST49LF004B, SST49LF020,  
SST49LF020A, SST49LF030A, SST49LF040, SST49LF040b, SST49LF080A,  
\_\_\_\_EEPROM-SYNCMOS  
F29C51000T, F29C51001T, F29C51002T, F29C51004T, F29V51000T, F29V51001T,  
F29V51002T,  
F29V51004T, F29LC51000T, F29LC51001T, F29LC51002T, F29LC51004T,  
\_\_\_\_EEPROM-TI  
TMS29F256, TMS29F258, TMS29F259, TMS29F010, TMS29F020, TMS29F040,  
\_\_\_\_EEPROM-TOSHIBA  
TC58257AP, TC58257AP-LV, TC58F1001P,  
\_\_\_\_EEPROM-VLSI  
2816, 2816A, 28C16, 2817A, 28C17, 2864A, 28C64, 28HC64, 28C256/A, 29C010,  
\_\_\_\_EEPROM-MOSEL  
V29C51000T, V29C51001T, V29C51002T, V29C51004T, F29C51000T, F29C51001T,  
F29C51002T,  
F29C51004T,  
\_\_\_\_EEPROM-XICOR  
X2816, X2816A, X2816B, X28C16, X28C16A, X28C16B, X2817A, X28C17, X2864A,  
X28C64,  
X28HC64, X28C256/A, X28C256, X28C256I, X28HC256, X28TC256, X28VC256, X28C010,  
\_\_\_\_EEPROM-LINKSMART  
LST28001, LST28002, LST28004,  
\_\_\_\_EEPROM-PMC  
PM37VF512, PM37VF010, PM37VF020, PM29F002, PM29F004, PM29LV002, PM29LV004,  
PM39LV512,  
PM39LV010, PM39LV020, PM39LV040, PM49FL002, PM49FL004,  
\_\_\_\_MPU-AMD  
87C51, 87C521, 87C541,  
\_\_\_\_MPU-ATMEL  
AT80F51, AT80F52, AT87F51, AT87F52, AT87F55WD, AT87F51RC, AT89C51, AT89LV51,  
AT89C52,  
AT89LV52, AT89C55, AT89LV55, AT89C55WD, AT89C51RC, AT89S51, AT89LS51,  
AT89S52, AT89LS52,  
AT89C1051, AT89LV1051, AT89C2051, AT89LV2051, AT89C4051, AT89LV4051,  
AT89S8252, AT89LS8252,  
AT89S8252, AT89LS8252, AT89S8253, AT89LS8253, AT89S53, AT89LS53, T89C51RB2,  
T89C51RC2,  
T89C51RD2, AT89C51RB2, AT89C51EB2, AT89C51IB2, AT89C51RC2, AT89C51EC2,  
AT89C51IC2,  
AT89C51RD2, AT89C51ED2, AT89C51ID2, AT89S54, AT89S58, AT89S64, AT90S1200,  
AT90S2313,  
AT90S4414, AT90LS4414, AT90S8515, AT90LS8515, AT90S4434, AT90S8535,  
AT90LS8535, AT90S4434,  
AT90LS4434, AT90S2333, AT90S4433, ATTINY11, ATTINY12, ATTINY15L, ATTINY26,  
ATTINY26L,  
ATTINY28L, ATTINY28V, ATTINY2313, ATTINY2313V, ATMEGA8, ATMEGA8L,  
ATMEGA16, ATMEGA16L,  
ATMEGA32, ATMEGA32L, ATMEGA8515, ATMEGA8515L, ATMEGA8535, ATMEGA8535L,  
ATMEGA48\*PDIP28,  
ATMEGA88\*PDIP28, ATMEGA168\*PDIP28, ATMEGA161, ATMEGA161L, ATMEGA162,  
ATMEGA162L,  
ATMEGA162V, ATMEGA162U, ATMEGA163, ATMEGA163L, AT90S2323, AT90LS2323,

AT90S2343,  
AT90LS2343,

\_\_\_\_MPU-DALLAS

DS87C520, DS89C420, DS89C430, DS89C440, DS89C450,

\_\_\_\_MPU-SST

SST89C54, SST89C58, SST89F54, SST89F58, SST89E554RC, SST89E564RD,  
SST89V554RC, SST89V564RD,  
SST89E52RD, SST89E54RD, SST89E58RD, SST89E516RD, SST89E52RD2,  
SST89E54RD2, SST89E58RD2,  
SST89E516RD2, SST89V52RD, SST89V54RD, SST89V58RD, SST89V516RD,  
SST89V52RD2, SST89V54RD2,  
SST89V58RD2, SST89V516RD2,

\_\_\_\_MPU-STC

STC89C58RD, STC89LV58RD, STC89C516RD, STC89LV516RD,

\_\_\_\_MPU-SYNCMOS

SM2952, SM2958, SM2964, SM2965, SM8951A, SM8952A, SM8951B, SM8952B, SM8954,  
SM8958,  
SM89516, SM89516C, SM89516L, SM8954A, SM8958A, SM89516A, SSU7301, SM7908,  
SM79108,  
SM89S16R1, SM7964, SM79164, SM5964C, SM5964AL, SM59264, SM894051,

\_\_\_\_MPU-MOSELVITELIC

MSU2954, MSU2958, MSU2964, MSU2964as32K, MSU2964as16K, MSU2964as8K,  
MSU2964as4K,

\_\_\_\_MPU-LG

GMS97C51, GMS97C52, GMS97C54, GMS97C58, GMS97C1051, GMS97C2051,

\_\_\_\_MPU-INTEL

i87C51, i87C52, i87C54, i87C58, i87C51FA, i87C51FB, i87C51FC, i87LC51FA, i87LC51FB,  
i87LC51FC, i87C51RA+, i87C51RB+, i87C51RC+, i87C51RD+, i87LC51RA+, i87LC51RB+,  
i87LC51RC+,  
i87LC51RD+,

\_\_\_\_MPU-PHILIPS

P87C51, P87C52, P87C54, P87C58, P87C51X2, P87C52X2, P87C54X2, P87C58X2,  
P87C51FA,  
P87C51FB, P87C51FC, P87LC51FA, P87LC51FB, P87LC51FC, P87C51RA+, P87C51RB+,  
P87C51RC+,  
P87C51RD+, P87LC51RA+, P87LC51RB+, P87LC51RC+, P87LC51RD+, P87C591,  
P89C51Uxxx, P89C52Uxxx,  
P89C54Uxxx, P89C58Uxxx, P89C51Bx, P89C52Bx, P89C54Bx, P89C58Bx, P89C51X2,  
P89C52X2,  
P89C54X2, P89C58X2, P89C51RA+, P89C51RB+, P89C51RC+, P89C51RD+,  
P89C51RA2Hxx, P89C51RB2Hxx,  
P89C51RC2Hxx, P89C51RD2Hxx, P89C51RA2B, P89C51RB2B, P89C51RC2B,  
P89C51RD2B, P89C51RA2F,  
P89C51RB2F, P89C51RC2F, P89C51RD2F, P89C60X2, P89C61X2, P89C660, P89C662,  
P89C664,  
P89C668, P87LPC759, P87LPC760, P87LPC761, P87LPC762, P87LPC764, P87LPC767,  
P87LPC768,  
P87LPC769, P89LPC920, P89LPC921, P89LPC922, P89LPC9221, P89LPC924,  
P89LPC925, P89LPC930,  
P89LPC931, P89LPC932, P89LPC932A1, P89LPC933, P89LPC934, P89LPC935,  
P89LPC936, P89LPC938,  
V51RA2B, C922SPI,

\_\_\_\_MPU-WINBOND

W78E51, W78E51B, W78LE51, W78E51C, W78LE51C, W78L051C, W78E52, W78E52B,  
W78LE52,  
W78E52C, W78LE52C, W78L052C, W78E54, W78E54B, W78LE54, W78E54C, W78L054C,  
W78E58,  
W78E58B, W78LE58, W78E516B, W78LE516, W78ERD2, W78IRD2, W78E62, W78E65,  
W78L065,  
W78E365, W78LE365, W78E858, W77E54, W77E58, W77LE58, W77E516, W77LE516,

W77E532,  
W79E532, W79E632, W79E201, W79E821A, W79E822A, W79E823A, W79E824A,  
W79E825A,

MPU-MICROCHIP

PIC12C508, PIC12C508A, PIC12C508B, PIC12C509, PIC12C509A, PIC12C509B,  
PIC12CE518,  
PIC12CE519, PIC12F508, PIC12F509, PIC12F510, PIC12C671, PIC12C672, PIC12CE673,  
PIC12CE674,  
PIC12F629, PIC12F675, PIC12F635-8PIN, PIC12F683-8PIN, PIC16F636-8PIN, PIC16F639-  
8PIN,  
PIC16F684-8PIN, PIC16F685-8PIN, PIC16F687-8PIN, PIC16F688-8PIN, PIC16F689-8PIN,  
PIC16F690-8PIN,  
PIC16F636-14PIN, PIC16F684-14PIN, PIC16F688-14PIN, PIC16F639-20PIN, PIC16F685-  
20PIN,  
PIC16F687-20PIN, PIC16F689-20PIN, PIC16F690-20PIN, PIC16F913, PIC16F916,  
PIC16F914,  
PIC16F917, PIC16F505, PIC16F506, PIC12F508-new, PIC12F509-new, PIC12F510-new,  
PIC16F54,  
PIC16F57, PIC16F630, PIC16F676, PIC16C505, PIC16C54, PIC16HV540, PIC16C54-LP,  
PIC16C54-XT,  
PIC16C54-RC, PIC16C54-HS, PIC16C54A, PIC16C54B, PIC16C54C, CF745, PIC16C55,  
PIC16C55-LP,  
PIC16C55-XT, PIC16C55-RC, PIC16C55-HS, PIC16C55A, PIC16C55B, PIC16C55C,  
PIC16C56,  
PIC16C56-LP, PIC16C56-XT, PIC16C56-RC, PIC16C56-HS, PIC16C56A, PIC16C56B,  
PIC16C56C,  
PIC16C57, PIC16C57-LP, PIC16C57-XT, PIC16C57-RC, PIC16C57-HS, PIC16C57A,  
PIC16C57B,  
PIC16C57C, CF775, PIC16C58, PIC16C58-LP, PIC16C58-XT, PIC16C58-RC, PIC16C58-  
HS, PIC16C58A,  
PIC16C58B, PIC16C58C, PIC16C64, PIC16C64A, PIC16C64B, PIC16C65, PIC16C774,  
PIC16C65A,  
PIC16C65B, PIC16C74, PIC16C74A, PIC16C74B, PIC16C71, PIC16C71A, PIC16C71B,  
PIC16C711,  
PIC16C712, PIC16C61, PIC16C710, PIC16C620, PIC16C621, PIC16C622, PIC16C715,  
PIC16C716,  
PIC16C62, PIC16C62A, PIC16C62B, PIC16C63, PIC16C63A, PIC16C63B, PIC16C73,  
PIC16C73A,  
PIC16C73B, PIC16C773, PIC16C66, PIC16C67, PIC16C72, PIC16C72A, PIC16C72B,  
PIC16C76,  
PIC16C76A, PIC16C76B, PIC16C77, PIC16C77A, PIC16C77B, PIC16C641, PIC16C642,  
PIC16C661,  
PIC16C662, PIC16C554, PIC16C556, PIC16C558, PIC16C717, PIC16F627, PIC16F628,  
PIC16LF627,  
PIC16LF628, PIC16F627A, PIC16F628A, PIC16F648A, PIC16LF627A, PIC16LF628A,  
PIC16LF648A,  
PIC16F716, PIC16F72, PIC16F73, PIC16F74, PIC16F76, PIC16F77, PIC16F737,  
PIC16F747,  
PIC16F767, PIC16F777, PIC16F83, PIC16CR83, PIC16C84, PIC16CR84, PIC16F84,  
PIC16F84A,  
PIC16F870, PIC16F871, PIC16F872, PIC16F873, PIC16F874, PIC16F876, PIC16F877,  
PIC16F873A,  
PIC16F874A, PIC16F876A, PIC16F877A, PIC16F818, PIC16F819,

MPU-MICON

MDT2005, MDT2005E, MDT2010, MDT2010E, MDT2015, MDT2020, MDT2020B,  
MDT10P21A1P, MDT10P21A1S,  
MDT10P21A2K, MDT10P21A3S, MDT10P22A1P, MDT10P22A1S, MDT10P22A2K,  
MDT10P22A3S, MDT2051,

MPU-ELAN

EM78P156E, EM78P256E, EM78P456E, EM78P247SA, EM78P247SB, EM78P447SA,

EM78P447SB,  
\_\_\_\_MPU-VERSACHIP  
V87C54, V87C58,  
\_\_\_\_MPU-CRESCENTEC  
CR80P100, CR80P200,  
\_\_\_\_MPU-TOPTEK  
T81P54, T80P54, T80P57, T80P65, T52,  
\_\_\_\_MPU-ISSI  
IS89C51A, IS89C52A, IS89LV51A, IS89LV52A,  
\_\_\_\_Serial-???  
93C46, 93C56, 93C66, 93C57, 93C86, 93C76, 93C46, 93C56, 93C66, 93C76, 93C86,  
24C01A,  
24C02, 24C04, 24C08, 24C16, 24C32, 24C64, 24C128, 24C256, 24C512,  
\_\_\_\_Serial-AKM  
93C46, 93C56, 93C66, 93C46, 93C56, 93C66, AK6420AF, AK6440AF, AK6480AF,  
AK6480CF,  
AK6420B, AK6440B, AK6480B, AK6420AM, AK6440AM, AK6480AM, AK6480CL,  
AK6481CH, AK6481CM,  
AK6416A, AK6416AM, AK6416CM, AK6416CH,  
\_\_\_\_Serial-ATMEL  
AT24C01, AT24C02, AT24C04, AT24C08, AT24C16, AT24C32, AT24C64, AT24C128,  
AT24C256,  
AT24C512, AT25010, AT25020, AT25040, AT25080, AT25160, AT25320, AT25640,  
AT25010A,  
AT25020A, AT25040A, AT25080A, AT25160A, AT25320A, AT25640A, AT25F512,  
AT25F1024,  
AT25F1024A, ACTRANS25, AT25F2048, AT93C46, AT93C56, AT93C66, AT93C86,  
AT93C46, AT93C56,  
AT93C66, AT93C86,  
\_\_\_\_Serial-ACTRANS  
AC25512, AC25LC512, AC25LV512, AC25010, AC25LC010, AC25LV010,  
\_\_\_\_Serial-CATALYST  
93C46, 93C46A, 93C46H, 93C46I, 93C46, 93C56, 93C66,  
\_\_\_\_Serial-EXEL  
XL93C46, XL93C56, XL93C66, XL93CS46, X93C86, X93C46, X93C56, X93C66, X93C86,  
\_\_\_\_Serial-HYUNDAI  
HY93C46, HY93C46, HY93C46, HY93C56, HY93C66,  
\_\_\_\_Serial-ICT  
93C46, 93C46A, 93CX46, 93C56, 93CX56, 93C66, 93CX66, 93C46, 93C56, 93C66,  
\_\_\_\_Serial-ISSI  
93C46/-3, 93C56/-3, 93C66, 93C46, 93C56, 93C66,  
\_\_\_\_Serial-MICROCHIP  
24C01A, 24C02A, 24C04A, 24C04, 24C08, 24C16, 24C32, 24C64, 24C65, 24C128, 24C256,  
24C512, 24LC01, 24LC02, 24LC04, 24LC04, 24LC08, 24LC16, 24LC32, 24LC64, 24LC65,  
24LC128,  
24LC256, 24LC512, 25C040, 25C080, 25C160, 25C320, 25LC040, 25LC080, 25LC160,  
25LC320,  
25LC640, 25AA040, 25AA080, 25AA160, 25AA320, 25AA640, 93C46, 93C56, 93LC56,  
93C66,  
93LC66, 93C86, 93C46, 93C46, 93C56, 93C66, 93C86, 93C46A, 93C46B, 93C46C,  
93C46C,  
93C56A, 93C56B, 93C56C, 93C56C, 93C66A, 93C66B, 93C66C, 93C66C, 93C86A,  
93C86B, 93C86C,  
93C86C, 93LC46A, 93LC46B, 93LC46C, 93LC46C, 93LC56A, 93LC56B, 93LC56C,  
93LC56C, 93LC66A,  
93LC66B, 93LC66C, 93LC66C, 93LC86A, 93LC86B, 93LC86C, 93LC86C, 93AA46A,  
93AA46B,  
93AA46C, 93AA46C, 93AA56A, 93AA56B, 93AA56C, 93AA56C, 93AA66A, 93AA66B,  
93AA66C,  
93AA66C, 93AA86A, 93AA86B, 93AA86C, 93AA86C,

\_\_\_\_Serial-NS

NMC9346, NMC93C46, NMC93CS46, NMC93C56, NMC93CS56, NMC93C66, NMC93CS66, NM93C46, NM93C56, NM93C66, NM59C11, NM24C02/L, NM24C04/L, NM24C08, NM24C16,

\_\_\_\_Serial-ROHM

BR24C01A, BR24C02, BR24C04, BR24C08, BR24C16, BR24C32, BR24C64, BR93C46, BR93C56, BR93C66, BR93C46, BR93C56, BR93C66, BR93LC46, BR93LC56, BR93LC66, BR93LC46, BR93LC56, BR93LC66, BR9010AF, BR9020AF, BR9040AF, BR9080AF, BR9080CF, BR9010B, BR9020B, BR9040B, BR9080B, BR9020AM, BR9040AM, BR9080AM, BR9080CL, BR9016A, BR9016AM, BR9016CM, BR9016CH,

\_\_\_\_Serial-SAMSUNG

KM93C46, KM93C46V, KM93C56, KM93CS56, KM93C57, KM93C66, KM93CS66, KM93C67,

\_\_\_\_Serial-ST

24C01, 24C02A, ST24C04, ST24C08, ST24C16, M93C46A, M93C56, M93C66, M93C57, M93C76, M93C86, MST93C46, M93C56, M93C66, M93C76, M93C86, M93S46, M93S46-W, M93S46-R, M93S56, M93S56-W, M93S56-R, M93S66, M93S66-W, M93S66-R, M95160, M95320, M95640,

\_\_\_\_Serial-SGS-THOMSON

ST24C01, ST24C02A, ST24C04, ST24C08, ST24C16, ST93C46A, ST93C56, ST93C66, ST93C46, ST93C56, ST93C66, ST93C57, ST93C86, ST93C86,

\_\_\_\_Serial-SST

SST25LF512, SST25LF010, SST25LF020, SST25LF040, SST25VF512, SST25VF010, SST25VF020, SST25VF040,

\_\_\_\_Serial-XICOR

X24C01, X24C01I, X24C01A, X2402, X2402I, X24C02, X24C02I, X2404, X2404I, X24C04, X24C04I, X24C16, X24C16I, X25043(8pin), X25045(8pin), X5043(8pin), X5045(8pin), X5043(14pin), X5045(14pin), X93C46, X93C56, X93C66, X93C86, X93C86, X25043(8pin), X25045(8pin), X5043(8pin), X5045(8pin), X5043(14pin), X5045(14pin), X25010, X25020, X25040, X25080, X25160, X25320, X25640, X25650,

\_\_\_\_Serial-PMC

PM25010, PM25020, PM25040, PM25080,

\_\_\_\_PLD-???

16V8, 16V8A, 16V8B, 20V8, 20V8A, 20V8B, 22V10, 22V10A,

\_\_\_\_PLD-ATMEL

ATF16V8, ATF16V8B, ATF16V8BL, ATF16V8BQ, ATF16V8BQL, ATF16V8C, ATF16V8CEXT, ATF16V8CZ, ATF20V8, ATF20V8B, ATF20V8BL, ATF20V8BQL, ATF22V10, ATF22V10L, ATF22V10B/L,

\_\_\_\_PLD-LATTICE

GAL16V8, GAL16V8A, GAL16V8B, GAL16V8C, GAL16V8D, GAL20V8, GAL20V8A, GAL20V8B, GAL22V10, GAL22V10A,

\_\_\_\_PLD-NS

GAL16V8, GAL16V8A, GAL20V8, GAL20V8A, GAL20V8, GAL22V10,,

\_\_\_\_PLD-SGS/THOMSON

GAL16V8, GAL16V8A, GAL16V8AS, GAL16V8S, GAL20V8, GAL20V8A, GAL20V8AS, GAL20V8S, GAL22V10,

\_\_\_\_PLD-VLSI

VP16V8, VP20V8,

\_\_\_\_RAM-STAND

6116, 6264, 62256, 62512, 628128, 628256, 628512, 2464, 24256, 24512, 24010, 24020, 24040,

\_\_\_\_RAM-WINBOND

W2465, W24128, W24257A, W24257AC, W24M257, W24512A, W24M512, W24M512A,  
W24M1024,  
W24010, W24020, W24040,  
\_\_\_\_RAM-INTEL  
6116, 6264, 62256, 62512, 628128, 628256, 628512,  
\_\_\_\_RAM-DALLAS  
DS1220Y, DS1220AB, DS1220AD, DS1225AB, DS1225AD, DS1225D, DS1225DE,  
DS1225Y, DS1230Y,  
DS1230AB, DS1245Y, DS12449, DS1250Y,  
\_\_\_\_TEST-Standard  
74xxx, 40xxx, 45xxx,  
\_\_\_\_end 1850,

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