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ROM/RAM EMULATOR

EML-ROM512

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EML-ROM512 FOR

INTRODUCTION:

EML-ROM512 is a simple, easy and affordable developing tool. It meets design engineers' requirements in general firmware houses, saves EPROM material consumption and reduces repeated time in erasing the EPROMs.

Our software enables you to load the file directly from disk to emulator and to use the full screen editor to efficiently modify the file either in HEX format or ASCII format.

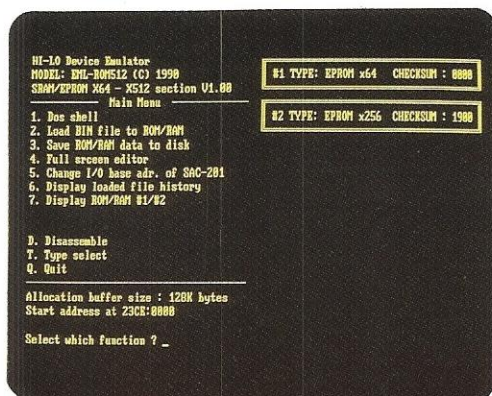
The hardware circuit includes 2 independent emulators controlled by software. This flexibility allows 2 different ROMs or RAMs, which acts as two 8-bit emulators with 64 K Byte capacity as well as one 16-Bit (Even/Odd) emulator with 64 K word capacity.

Automatically saving the emulated file for your next emulation reference is a superior function not found in other emulators.

A disassemble environment is provided to allow other relevant software to disassemble the machine code. This enhances the readability of machine code.

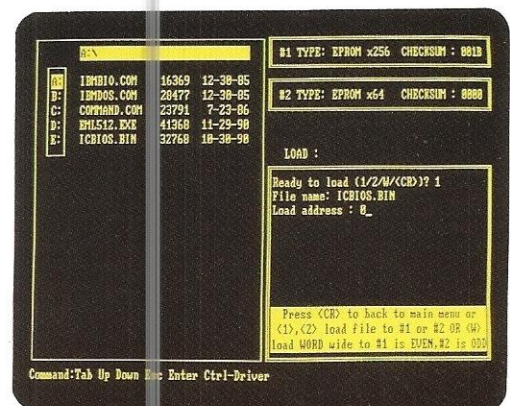
FUNCTION SELECTION MAIN MENU

All the functions are displayed on screen for your selection. Select the first letter of each function to enter the submenu in clear sequence.

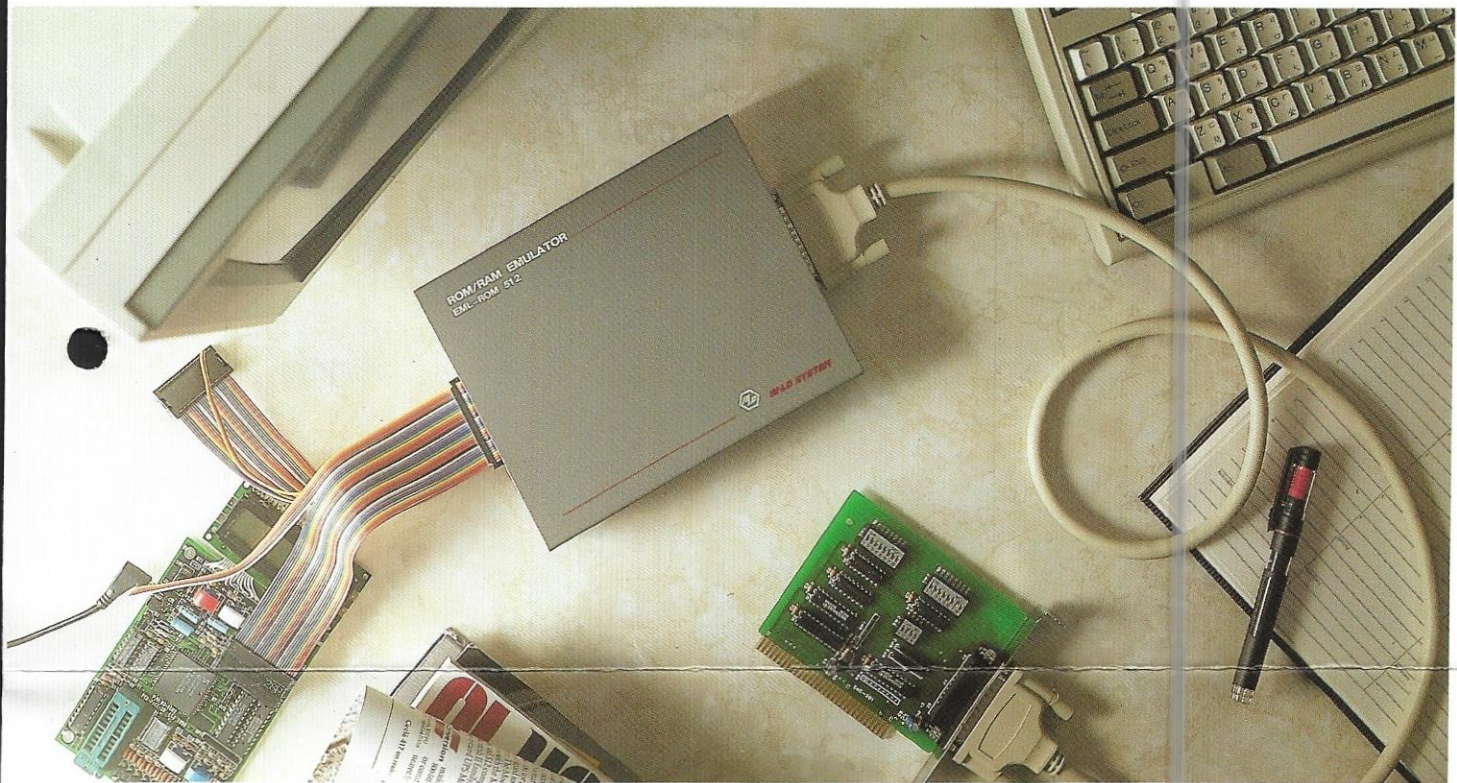


BINARY FILE LOADING AND SAVING

Use the loading and saving function to access files in any directory. Set the position and range and allocate the ROM/RAM number (#1, #2 or in word form)



PC XT/AT/386



FULL SCREEN EDITOR

This editor enables you to edit HEX and ASCII with page jump, forward, backward, count check sum, word string search and print functions. It is fast and simple.

EDITING COMMAND SUMMARY

```
D [start], [end]  <RETURN> : DUMP
E start          <RETURN> : EDIT
M start, end, destination <RETURN> : MOVE BLOCK
F start, end, data  <RETURN> : FILL BLOCK
P start, end       <RETURN> : PRINT BLOCK
C start, end       <RETURN> : CHECK SUM
S start, end, ASCII data <RETURN> : ASCII SEARCH MAX. 15 characters
B start, end, BINARY data <RETURN> : BINARY SEARCH MAX. 7 BYTES
. filename [argu1] [argu2]... <RETURN> : SHELL
?                <RETURN> : HELP
Q                <RETURN> : QUIT
```

* The information listed below is for reference only :
The absolute start address of BUFFER : 23CE:0000
The Buffer size : 128K BYTES

```
0000 02 01 00 75 41 FF 75 40 -01 53 07 70 32 00 00 00 ...uh.u0.S..2...
0010 00 00 00 00 00 00 00 -00 00 00 75 41 24 35 40 .....40.0
0020 50 07 15 40 75 41 FF 00 -19 90 00 99 74 00 7A 00 ...Aha.....t..
0030 71 70 00 99 74 00 7A 00 -00 71 70 71 50 D2 B3 75 qf...t.x.sigP..u
0040 07 02 32 53 45 4C 46 5F -54 45 53 54 49 42 47 2E ...2SELF TESTING.
0050 2E 2E 2E 54 57 45 52 52 -47 52 2E 37 34 3A 2A 2A ...T ERROR.74:==
0060 45 4E 44 2E 2A 2A 2A 2A -42 41 44 21 2A 2A 2A 2A END.===BAD:===
0070 46 49 4E 44 2A 2A 46 49 -4E 44 2A 45 4E 44 54 45 FIND==FIND=ENDITS
0080 53 54 20 4F 40 2A 3A 30 -3A 34 35 3A 34 31 3A 34 ST-0F=4E:45:41:4
0090 34 3A 20 20 20 20 20 20 -20 20 20 20 20 20 20 4: 0
00A0 20 57 41 45 54 49 4E 47 -20 2A 2A 20 50 4F 57 45 WAITING == FOME
00B0 52 20 44 4F 57 4E 20 2A -2A 40 56 45 52 20 31 2E R DOWN == UER 1.
00C0 30 30 20 31 30 27 31 35 -27 27 39 30 00 00 00 00 10/15/90...
00D0 00 00 00 00 00 00 00 00 -00 00 00 00 00 00 00 .....
00E0 00 00 00 00 00 00 00 00 -00 00 00 00 00 00 00 .....
00F0 00 00 00 00 00 00 00 00 -00 00 00 00 00 00 00 .....
0100 71 50 75 0C 00 75 0A 00 -75 09 12 D2 0C 7D 06 30 qPa..u..u...).0
0110 05 F0 20 05 F0 C2 B1 20 -04 F0 30 04 F0 D0 F0 71 .....0....q
0120 09 90 00 99 71 73 71 77 -90 00 43 71 73 90 00 40 ...gpa..Cgs..I
0130 71 77 71 00 71 50 51 90 -70 01 76 55 06 55 11 00 qaq.gP4.x.vd.U..
0140 00 00 F7 70 01 76 0A 05 -0A 06 00 00 00 F7 00 00 ...x.v.....
0150 90 00 53 71 77 71 04 71 -50 00 70 00 00 99 71 73 ...P...P....g
0160 71 77 71 00 71 0C 75 4C -01 90 00 50 74 00 7A 03 qaq.q.u...t..x
0170 71 70 75 40 10 75 4E 00 -75 4F 4C 75 50 39 75 55 q(uM.uM.u0LnP9uU
[ESC]: back to command prompt, [Ctrl X]: Toggle between BINARY and ASCII
```

EML-ROM512 FOR PC XT/AT/386

*Partially in base system
Vocating? 5V, accumulating?
Have hex file now emulator.
Command line copy of programme not menu*

ROM/RAM EMULATOR

HARDWARE FEATURES:

- Two independent 8-Bit emulators can be combined by software control as one 16-Bit (Even/Odd) emulator.
- Direct down-load or up-Load filing to PC can be done through PC bus for immediate operation.
- The emulators can be assigned to ROM or RAM separately by software control. The ROM/RAM access time is 120 ns.
ROM: 2764/C64, 27128/C128, 27256/C256, 27512/C512, 27C010, 27C1024
RAM: 6264, 62256
- 2 signal outputs for Reset and Halt control. *→ manner active?*

SOFTWARE FEATURES:

- DOS shell function: shares the DOS resources and keeps the control software in PC memory.
- Load and Save function: performs 8-Bit file or 16-Bit file down-load or up-Load.
- Full screen editor: modifies HEX or ASCII area by moving cursor up, down, left, right and paging.
- Display function: touch a single key to display ROM/RAM contents under main menu.
- Binary Code Disassemble: relevant options are available to disassemble Binary code.

Attached Utility Program:

1. HEXBIN, HEXBIN2: HEX to BINARY file converter *←*
HEX formats include: Intel HEX,
Motorola S HEX,
Tektronix HEX,
TI HEX
Digital Research HEX
2. SPLIT2, SPLIT4
SHUFF2, SHUFF4: Binary file 2 ways or 4 ways splitter or shuffler.
3. DUMP: Displays file content to console in Binary format.

SPECIFICATIONS:

- Power Consumption : 5V 0.8A max.
- Emulator module : 175 mm × 142 mm × 40 mm
- System Adaptor (SAC-201) : 110 mm × 95 mm

ORDERING INFORMATION:

- EML-ROM512 includes: Emulator module, system adaptor (SAC-201), 25 D-type cable, 2 PODS for 1M-BIT EPROM, 2 flat cables with 28 pin DIP connectors, user manual and control software. Relevant software sold separately:

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- DASMZ80.EXE : Z80 disassembler
- DASM51.EXE : 8051 disassembler
- DASM48.EXE : 8048 disassembler
- DASM85.EXE : 8085 disassembler
- DASM09.EXE : 6809 disassembler
- DASM11.EXE : 68HC11 disassembler

Is working transparent (geen aanpassing source nodig)



HILL SYSTEMS