

WICE-4/8MA

USER'S MANUAL



LEAP ELECTRONIC

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I. Introduction

WICE-4/8MA is a high performance in-circuit emulator for developing and debugging ROM/SRAM applications. It offers real-time emulation up to 8M bit.

WICE-4/8MA interface to an IBM PC or clone via the printer port. It is able to be driven under DOS or Windows 3.1/95.

It is mainly a manual for WICE-8MA, if you buy a WICE-4MA, the operation is the same as WICE-8MA.

II. Supported Devices

WICE-4MA

Capacity	Quantity	Device	Low voltage Device
2K iN 8	2	2716	-
4K iN 8	2	2732	-
8K iN 8	2	2764	-
16K iN 8	2	27128	-
32K iN 8	2	27256	-
64K iN 8	2	27512	-
128K iN 8	2	27010	27LV010
256K iN 8	2	27020	27LV020
512K iN 8	1	27040	27LV040
64K iN 16	1	271024	27LV1024
128K iN 16	1	272048	27LV2048
256K iN 16	1	274096	27LV4096
2K iN 8	2	6116	-
8K iN 8	2	6264	-
32K iN 8	2	62256	-
128K iN 8	2	628128	-

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WICE-8MA

Capacity	Quantity	Device	Low voltage Device
2K iN 8	2	2716	-
4K iN 8	2	2732	-
8K iN 8	2	2764	-
16K iN 8	2	27128	-
32K iN 8	2	27256	-
64K iN 8	2	27512	-
128K iN 8	2	27010	27LV010
256K iN 8	2	27020	27LV020
512K iN 8	2	27040	27LV040
1024KiN 8	1	27080	27LV080
64K iN 16	1	271024	27LV1024
128K iN 16	1	272048	27LV2048
256K iN 16	1	274096	27LV4096
2K iN 8	2	6116	-
8K iN 8	2	6264	-
32K iN 8	2	62256	-
128K iN 8	2	628128	-
512K iN 8	2	628512	-

P.S.Low voltage type must have 3.3V adaptor and switch to 3.3 voltage selection.

III. Accessories

1. Standard Accessories:

- * WICE-4/8MA mainframe x 1
- * 26-pin cable x 1
- * 32-pin single connector flat cable x 1
- * 32-pin double connector flat cable x 1
- * 16 bit 40-pin module + flat cable x 1
- * 4 signal line hook x 1
- * 28-pin IC socket x 2
- * System software disk x 1
- * User manual x 1

- * DC power adaptor x 1

- * 3.3V adaptor x 2

2. Option

- * 28F002 module driver

- * PLCC adaptor

IV. Host Computer Requirements

- *IBM PC or compatible computer (above 386)

- *MS-DOS VER 3.0(or above); Windows 3.1/95

V. Installation

1. Plug one head of 26-pin cable in WICE-4/8MA, and another head in printer port.
2. Switch the selector to choose which voltage device you want to emulate. For example, you want to emulate 5V device then switch the selector to 5V.
3. Plug adaptor in 110V power socket and the other head in WICE-4/8MA DC IN.
4. If you want to emulate 3.3V device, add 3.3V adaptor is needed. Then plug 32-pin cable in WICE-4/8MA.
5. Install the system software. (key in INST8MD.EXE under DOS)
6. Run the software.

VI. Hardware Specification

1. Transmit by printer port.
2. One printer port can control 2 units of WICE-4/8MA.

3. The switch is able to be adjusted to 3.3V or 5V.

(Note: There is no reverse protection when the switch is at 3.3V if without 3.3V adaptor.)

4. Signal line is able to control RESET or HOLD on target board.

VII. DOS Operation Introduction

Note: Change W8 into W4 if you operate WICE-4MA.

1. Path File Operation under DOS

w8 [d:][path] file name [/type] [/#ID] [/EVEN] [/ODD] [/RESET]
[/LPTn] [/Nn] [/Snnnnnn] [/V]

(1) [d:] [path] file name: the files which users need to be simulated, include set the disk number/path/file name/accessory file name.

(2) [/type]: assign the name of device

[/16] or [/2716]	= 2K	iÑ 8bits
[/32] or [/2732]	= 4K	iÑ 8bits
[/64] or [/2764]	= 8K	iÑ 8bits
[/128] or [/27128]	= 16K	iÑ 8bits
[/256] or [/27256]	= 32K	iÑ 8bits
[/512] or [/27512]	= 64K	iÑ 8bits
[/010] or [/27010]	= 128K	iÑ 8bits
[/020] or [/27020]	= 256K	iÑ 8bits
[/040] or [/27040]	= 512K	iÑ 8bits
[/080] or [/27080]	= 1024K	iÑ 8bits

(3) [/#ID]: assign the emulator. One printer port is able to control two units of WICE-4/8M and each WICE-4/8M has two port.

[/#1A]=WICE-#1A

[/#1B]=WICE-#1B

$$[/\#2A]=WICE-\#2A$$
$$[/\#2B]=WICE-\#1B$$

- (4) [/EVEN]: set the data of even position loaded
- (5) [/ODD]: set the data of odd position loaded
- (6) [/RESET]: set the reset signal after transmission, reset the circuit.
- (7) [/LPTn]: select the number of Printer Port, n might be 1-4. If you do not want to set this parameter, it will automatically set to "LTP1".
- (8) [/Snnnnnnn]: select the beginning position of loaded files.
- (9) [/V]: verify the data which is from PC to WICE-4/8MA to make sure the correction of the data.
- (10) [W8/?]: mention that the way to set parameter. It will show you like following.

```

MS-DOS Batch
[File] [Edit] [Format] [Tools] [Window] [Help]
[Source] [Destination] [Type] [Size] [Date] [Time] [Attributes] [Status] [Progress]
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300] [301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400] [401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500] [501] [502] [503] [504] [505] [506] [507] [508] [509] [510] [511] [512] [513] [514] [515] [516] [517] [518] [519] [520] [521] [522] [523] [524] [525] [526] [527] [528] [529] [530] [531] [532] [533] [534] [535] [536] [537] [538] [539] [540] [541] [542] [543] [544] [545] [546] [547] [548] [549] [550] [551] [552] [553] [554] [555] [556] [557] [558] [559] [560] [561] [562] [563] [564] [565] [566] [567] [568] [569] [570] [571] [572] [573] [574] [575] [576] [577] [578] [579] [580] [581] [582] [583] [584] [585] [586] [587] [588] [589] [590] [591] [592] [593] [594] [595] [596] [597] [598] [599] [600] [601] [602] [603] [604] [605] [606] [607] [608] [609] [610] [611] [612] [613] [614] [615] [616] [617] [618] [619] [620] [621] [622] [623] [624] [625] [626] [627] [628] [629] [630] [631] [632] [633] [634] [635] [636] [637] [638] [639] [640] [641] [642] [643] [644] [645] [646] [647] [648] [649] [650] [651] [652] [653] [654] [655] [656] [657] [658] [659] [660] [661] [662] [663] [664] [665] [666] [667] [668] [669] [670] [671] [672] [673] [674] [675] [676] [677] [678] [679] [680] [681] [682] [683] [684] [685] [686] [687] [688] [689] [690] [691] [692] [693] [694] [695] [696] [697] [698] [699] [700] [701] [702] [703] [704] [705] [706] [707] [708] [709] [710] [711] [712] [713] [714] [715] [716] [717] [718] [719] [720] [721] [722] [723] [724] [725] [726] [727] [728] [729] [730] [731] [732] [733] [734] [735] [736] [737] [738] [739] [740] [741] [742] [743] [744] [745] [746] [747] [748] [749] [750] [751] [752] [753] [754] [755] [756] [757] [758] [759] [760] [761] [762] [763] [764] [765] [766] [767] [768] [769] [770] [771] [772] [773] [774] [775] [776] [777] [778] [779] [780] [781] [782] [783] [784] [785] [786] [787] [788] [789] [790] [791] [792] [793] [794] [795] [796] [797] [798] [799] [800] [801] [802] [803] [804] [805] [806] [807] [808] [809] [810] [811] [812] [813] [814] [815] [816] [817] [818] [819] [820] [821] [822] [823] [824] [825] [826] [827] [828] [829] [830
```

Example:

W8 TEST.BIN /010 /N

Emulate 27010 from file TEST.BIN to port A

The error message

1. Have not source file name enter!
without assigning the source of the file name
2. Source file not found!
could not find the source file
3. Source file read error!
the error made from reading source file
4. Source file not *.EXE file or bad!
the source file is not *.EXE or the file length is not enough
5. Illegal start offset address!
the start address is wrong
6. Start offset > file length!
the start address is longer than the file length
7. Illegal download source file allocate to device number
Error in downloading source file allocate to device number
8. Download data to WICE-8MA error!
the error from transmitted verification
9. Check the power and the cable of WICE!
make sure the connction of power and the cable of WICE
10. Port B not ready check Port B please!
please check Port B if it is ready
11. WICE hardware do not define parallel port (LPTn)!
WICE hardware do not define parallel port address

2. Window Operation under DOS

Key in WICE-4/8MA under this path and get into main chart.



TYPE : set the type of output
 WICE : the function of output/input
 DISK : disk loading operating system
 HELP : operating introduction and EPROM pinout introduction
 PROCESS : process the data in buffer
 PARAMETER : set the parameter

A. TYPE:

Set the IC type and output position

[T] Set emulator type

According to IC position for choosing the type of IC

B. WICE:

Transmit the data from buffer to WICE.

1. [M] Move data block to WICE

Move buffer data from 0000 position to WICE

2. [Shift] [M] Move any block to WICE User can transmit any block data to WICE

3. [R] Read WICE data into buffer
Read the data from WICE into buffer
4. [N] Read WICE data check sum
Calculate and show the data check sum
5. [V] Verify WICE/Buffer data
Verify the difference between WICE and buffer, if there are differences it will show you the address and the data.
6. [Ctrl] [C] Clear WICE data to "FF"hex
Clear WICE data to "FF"hex
7. [E] Move data with error check
Examine error while transmitting datahex
8. [1] Reset target board (Pluse)
Send the pluse signal to target board, it is a signal which is from high to low and then back to high.
9. [Shift] [1] Change RESET Output state
Change RESET output state from high to low or from low to high.
10. [2] Change "HOLD" output state
Change HOLD output state from high to low or from low to high.
11. [3] Change "USER" output state
Change USER output state from high to low or from low to high.
12. [Z] Change memory (cache) segment
Change memory cache segment

C. DISK

Disk loading operating system.

1. [Ctrl] [D] List disk directory
List the file name/length/date in the disk

2. [L] Load disk data file to buffer

Download disk files to PC buffer, it will list 26 types of transmission format. Normally, it is [2] Binary/Machine Code or [3] Intel HEX format. You do not have to key in the file name, simply use A:*. * to list the data in the file and download it by using the cursor.



Start address [00000]: indicate the start address of buffer,
Fill 0/FF/NO: fill in [].

[0]: clear the buffer data to 00h before loading

[F]: clear the buffer data to FFh before loading

[N]: do nothing to buffer before loading

3. [S] Save buffer data to disk

Save buffer data to floppy or hard disk

4. [Shift] [L] Load encryption data to buffer

load encryption data to buffer

5. [Shift] [S] Save encryption data to disk

Save encryption data to disk

6. [Ctrl] [M] Define macro key

User define macro key to buffer

Macro key capture:[] you can set from F1 to F10

Macro key remark: [] key in the note of file name

Example:

Set the procedure in ROM.BIN into macro key.

(1) Press [Ctrl] [M] and do the set-up like following:

Macro key capture: [F2]

Macro key remark: [ROM.BIN]

(2) Press [Enter]

(3) Press [L] to load 26 types and click [2] Binary/ Machine Code

(4) Press [Enter] to load A: *.* then [Enter], after listing file name move the cursor to ROM.BIN

(5) Press [Enter], choose the start address 0000. Press [F] to select blank and fill the data. Then press [Enter] to start loading.

(6) Press [Ctrl] [M] to end the set-up procedres

Note: You can press [F2] to repeat above procedures.

7. [Ctrl] [E] Erase macro key

Erase the set-up macro key

8. [Ctrl] [T] List macro key

List macro key and its explanatory notes

9. [Ctrl] [L] Load macro key file

Load macro key file to buffer, it will automatically load UNIV.KEY when you get into the system.

10. [Ctrl] [S] Save macro key file to disk

Save macro key file to disk

11. [Shift] [T] View text file

View text file on screen, the function is the same as "type" in DOS.

- ### D. HELP

1. [H] HELP

2. [1] Device information



MS-DOS 6.22

IO PIN CONFIGURATION

Address	Configuration
0x0000	2K x 16bit
0x0001	4K x 16bit
0x0002	8K x 16bit
0x0003	16K x 16bit
0x0004	32K x 16bit
0x0005	64K x 16bit
0x0006	128K x 16bit
0x0007	256K x 16bit
0x0008	512K x 16bit
0x0009	1024K x 16bit
0x000A	2048K x 16bit
0x000B	4096K x 16bit
0x000C	8192K x 16bit
0x000D	16384K x 16bit
0x000E	32768K x 16bit
0x000F	65536K x 16bit
0x0010	131072K x 16bit
0x0011	262144K x 16bit
0x0012	524288K x 16bit
0x0013	1048576K x 16bit
0x0014	2097152K x 16bit
0x0015	4194304K x 16bit
0x0016	8388608K x 16bit
0x0017	16777216K x 16bit
0x0018	33554432K x 16bit
0x0019	67108864K x 16bit
0x001A	134217728K x 16bit
0x001B	268435456K x 16bit
0x001C	536870912K x 16bit
0x001D	1073741824K x 16bit
0x001E	2147483648K x 16bit
0x001F	4294967296K x 16bit
0x0020	8589934592K x 16bit
0x0021	17179869184K x 16bit
0x0022	34359738368K x 16bit
0x0023	68719476736K x 16bit
0x0024	137438953472K x 16bit
0x0025	274877906944K x 16bit
0x0026	549755813888K x 16bit
0x0027	1099511627776K x 16bit
0x0028	2199023255552K x 16bit
0x0029	4398046511104K x 16bit
0x002A	8796093022208K x 16bit
0x002B	17592186044416K x 16bit
0x002C	35184372088832K x 16bit
0x002D	70368744177664K x 16bit
0x002E	140737488355328K x 16bit
0x002F	281474976710656K x 16bit
0x0030	562949953421312K x 16bit
0x0031	1125899906842624K x 16bit
0x0032	2251799813685248K x 16bit
0x0033	4503599627370496K x 16bit
0x0034	9007199254740992K x 16bit
0x0035	18014398509481984K x 16bit
0x0036	36028797018963968K x 16bit
0x0037	72057594037927936K x 16bit
0x0038	144115188075855872K x 16bit
0x0039	288230376151711744K x 16bit
0x003A	576460752303423488K x 16bit
0x003B	1152921504606846976K x 16bit
0x003C	23058430092136939536K x 16bit
0x003D	46116860184273879072K x 16bit
0x003E	92233720368547758144K x 16bit
0x003F	184467440737095516288K x 16bit

Bus: 0x0000-0x000F
Disk: 0x0010-0x001F
Floppy: 0x0020-0x002F
Mouse: 0x0030-0x003F
Printer: 0x0040-0x004F
Sound: 0x0050-0x005F
Terminal: 0x0060-0x006F
Video: 0x0070-0x007F
Voice: 0x0080-0x008F

0x0000-0x000F: 2K x 16bit
0x0010-0x001F: 4K x 16bit
0x0020-0x002F: 8K x 16bit
0x0030-0x003F: 16K x 16bit
0x0040-0x004F: 32K x 16bit
0x0050-0x005F: 64K x 16bit
0x0060-0x006F: 128K x 16bit
0x0070-0x007F: 256K x 16bit
0x0080-0x008F: 512K x 16bit
0x0090-0x009F: 1024K x 16bit
0x00A0-0x00AF: 2048K x 16bit
0x00B0-0x00BF: 4096K x 16bit
0x00C0-0x00CF: 8192K x 16bit
0x00D0-0x00DF: 16384K x 16bit
0x00E0-0x00EF: 32768K x 16bit
0x00F0-0x00FF: 65536K x 16bit
0x0100-0x010F: 131072K x 16bit
0x0110-0x011F: 262144K x 16bit
0x0120-0x012F: 524288K x 16bit
0x0130-0x013F: 1048576K x 16bit
0x0140-0x014F: 2097152K x 16bit
0x0150-0x015F: 4194304K x 16bit
0x0160-0x016F: 8388608K x 16bit
0x0170-0x017F: 16777216K x 16bit
0x0180-0x018F: 33554432K x 16bit
0x0190-0x019F: 67108864K x 16bit
0x01A0-0x01AF: 134217728K x 16bit
0x01B0-0x01BF: 268435456K x 16bit
0x01C0-0x01CF: 536870912K x 16bit
0x01D0-0x01DF: 1073741824K x 16bit
0x01E0-0x01EF: 2147483648K x 16bit
0x01F0-0x01FF: 4294967296K x 16bit
0x0200-0x020F: 8589934592K x 16bit
0x0210-0x021F: 17179869184K x 16bit
0x0220-0x022F: 34359738368K x 16bit
0x0230-0x023F: 68719476736K x 16bit
0x0240-0x024F: 137438953

E. PROCESS

Process the data in buffer.

1. [D] Dump/Edit buffer data

Showing the whole buffer data which contain HEX/ASCII to edit. It will show you the binary, hexadecimal and ASCII CODE of code format.

Key in [Ctrl] [E] to edit HEX

[Ctrl] [A] to edit ASCII

[Ctrl] [D] to go the data you want to examine

[ESC] back to main screen

This function will provide you a easy way to DUMP and EDIT. You can press [Ctrl] [F2] into a special process buffer

2. [U] Display buffer used map

Show the current buffer condition to provide users analyzing

3. [Shift] [D] Edit encryption table

Provide a spare buffer (256K byte) to process input password, like encryption code

4. [Shift] [C] Buffer data lock/unlock

Protect the data in main buffer. You may retrieve the data by processing the same password.

5. [Ctrl] [N] Read memory check sum

Read memory check sum from buffer

6. [Ctrl] [F] Buffer fill (FFh) data

Fill buffer with FFh data

7. Buffer fill (00h) data

Fill buffer with 00h data

8. Fill sequential word into all

Fill buffer with sequential word

9. Fill sequential byte into all

0. [Ctrl] [X] Divide 16/32/64 to 8 bit

[Shift] [X] Combine 8 to 16/32 bit

Combine 8 bit into 16/32 bit

Set the parameter.

Set the parameter.

Transmit 8 bit data from buffer to WICE-4/8MA

Transmit 16 bit ,Even data from buffer to WICE-4/8MA

Transmit 16 bit ,Odd data from buffer to WICE-4/8MA

Select printer port

Transmit BIN of 27010 to drive# on WICE-4/8MA.

1. Press [TYPE] and select [0] WICE#A (27010) to set the size of WICE#A



2. Select [L] Load disk data file to buffer in DISK, it will show you 26 transmission types . Choose Binary/Machine code, then [Enter], the start address is (00000), [Enter], Fill 0/FF/No: [N], then the data is loading in buffer.
3. Select WICE key in [E], it will show you [WICE-1#A (27010)-378 address is A], then press[Enter] for transmitting the data to drive#A.
4. Turn on target board

VIII. Set Up Windows Software

1. Standard Requirements

- *IBM PC or compatible computer (above 386)
- *10M harddisk space
- *WINDOWS 3.1/95
- *8M RAM

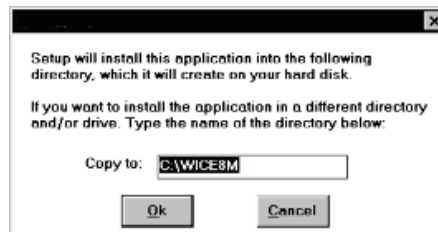
2. Installation Procedures

- [A] Please back up your software disk.
- [B] Turn on your computer and set the Windows in, please in the

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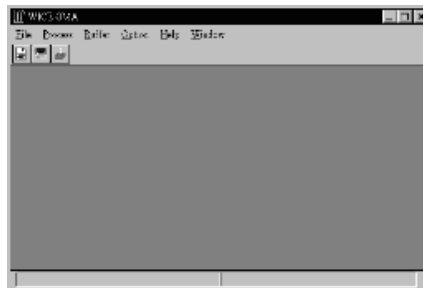
"SETUP DISK" and execute the "SETUP.EXE" in order to set the WICE-4/8MA main program into computer.

[C] Your screen will show the dialogue to choose the set-up path, please key in the path of the file that you want to install.



[D] When you finish the set-up, it appears a new program in your Windows explorer.

[E] You can check WICE-4/8MA chart twice to execute the main program.



3.Connect WICE-4/8MA

Introduction:

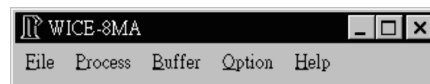
Please follow the procedures to connect the WICE-4/8MA with PC.

Connection Procedure:

- [A] Plug one head of cable in WICE-4/8MA and the other head in printer port.
- [B] Turn it on and execute the WICE-4/8MA main program.
- [C] Select Process-WICE control box on the MENU and turn into WICE Control Box.(Or click the third button on Tool bar).
- [D] Take a look at WICE DRIVE SELECT, if it is dissolved then it doesn't connected. You can click Auto Detect WICE in WICE Control Box, do the detection again.
- [E] Click Auto Detect WICE, if it is still dissolved then check [A] [B] and repeat [C] [D] [E].

IX. Windows Operation

WICE-4/8MA MENU



Menu Introduction

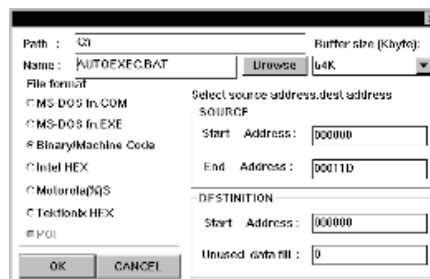
- File : functions of file process
- Buffer : function of file editing
- Process: hardware process
- Option : working environment option
- Help : on line help
- Window: re-arrange windows

1. Introduce File



Load: load in a old file

It will show you a Dialog box like following



Path : to select load path

Name : to select load name

File format : to select file format

size : to select buffer range (max 16Mbyte)

Source : to select the start file address and end address
(Program will self-judge if the input correct or not)

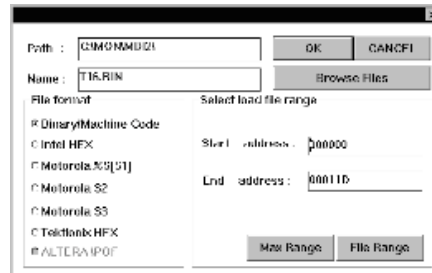
Destination : to select the buffer destination start address for
disk and input unused block.

unused fill : unused data fill.

Browse : to select file by browse

Save: save files

It will show you a Dialogue box like following.



Path : to select save path

Name : to select save name

File format : to select file format

Select buffer range : to select buffer range (Program will self-judge if the input correct or not)

Destination : to select the buffer destination start address for disk and input unused block.

unused fill : unused data fill.

Browse : to select file by browse

Buffer range : to fill the buffer range in the destination

File range : to use file range to fill select buffer range

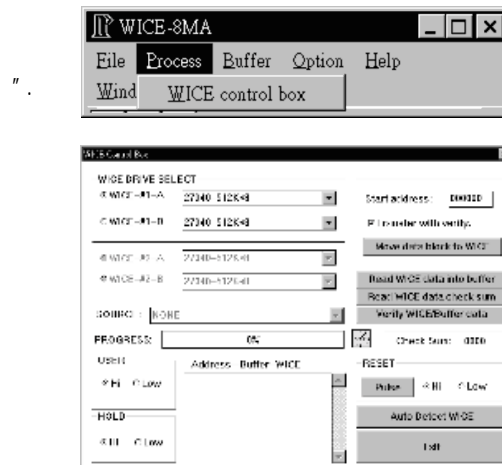
Close: close the current window (current window is focus window)

Exit: exit current program

2. Process-WICE control box

Introduction

Mainly to open the "WICE control box" dialog and control the hardware of WICE-4/8MA. Explain the approach like following about "WICE control box"



[WICE control box]

WICE DRIVE SELECT

To select the device number of emulation device.

SOURCE

Select the data which will transmit to WICE-4/8MA

PROGRESS

Show the progress at the present

Start address

Select the start address of transmission

Transfer with verify

Verify data while transmitting, but it delay the transmitting time

Move data block to WICE

Transmit data to WICE-4/8MA

Read WICE data into buffer

Read data from WICE-4/8MA

Read WICE data check sum

Read data check sum from WICE-4/8MA

Verify WICE/Buffer data

Verify the data in buffer and WICE-4/8MA

Check sum

Show the check sum of data

USER

Hi: turn the USER test hook to high level voltage

Low: turn the USER test hook to low level voltage

HOLD

Hi: turn the HOLD test hook to high level voltage

Low: turn the HOLD test hook to low level voltage

RESET

Pluse: In RESET test hook, it will output pluse from Low to High

Hi: turn the RESET test hook to high level voltage

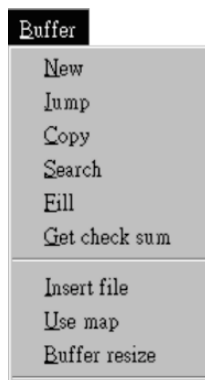
Low: turn the RESET test hook to low level voltage

Auto Detect WICE

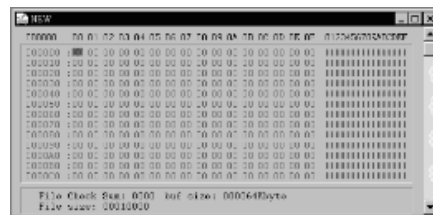
Detect the connection of WICE-4/8MA

Note:It will delay transmitting time while you choose "Transfer with verify".

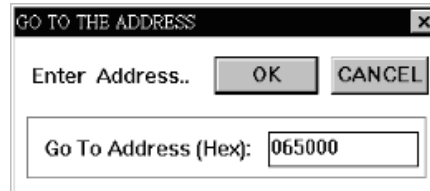
3. Buffer



New: open a new edit window to use a blank buffer



Jump: move the cursor to an address where you would like to go.



Just fill the address and press OK, then you can go there quickly.

Block: for copy, or move, or exchange the block content.



Action: to select to block

1. copy : to copy block
2. move: to move block
3. swap: to swap two blocks

Source: to select source block.

DESTINATION: to select the destination address.

Buffer range: to fill the buffer range in the destination

File range: to fill the file range in the destination

Note: If input wrong to the above selection, the program will send message to remind you.

Search: search for the goal data

The 'Search Data' dialog box is titled 'Search Data'. It has a 'Style' section with radio buttons for 'Binary' and 'ASCII'. An 'Action' section has radio buttons for 'Search next' and 'First'. A 'Target' section has a text field labeled 'Data:' containing '0000'. A 'Range' section has 'Start Address:' and 'End Address:' fields, both containing '000000' and '00FFFF' respectively. Below these are 'Max range' and 'File range' buttons. At the bottom are 'OK' and 'CANCEL' buttons.

Style: select the search style(use Binary or ASCII to search)

Action : to select the search start

Search next : to search the next one

First : the first search data

Target : the target data (ASCII or Binary)

Range:

Start Address:search start address

End Address :search end address

Max range :the maximum buffer address

File range :the maximum range of file address that you have already load.

Fill: fill in data

The 'Fill data' dialog box is titled 'Fill data'. It has three radio buttons: 'All fill bit 1', 'All fill bit 0', and 'User define(byte):'. The 'User define(byte):' field contains '00'. A 'Range' section has 'Start Address:' and 'End Address:' fields, both containing '000000' and '00FFFF' respectively. Below these are 'Max range' and 'File range' buttons. At the bottom are 'OK' and 'CANCEL' buttons.

Fill data : select fill data:

All fill bit 1 :All bit fill "1"

All fill bit 0 :All bit fill "0"

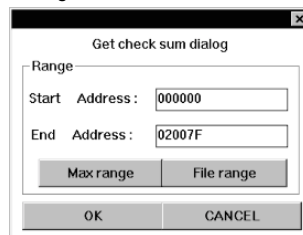
User define : to fill the user define byte.

Range : to select and fill the range

Max range : to fill the range with maximum buffer range

File range : to fill the range with the maximum file range

Get Check Sum: get the check sum from the Edit.



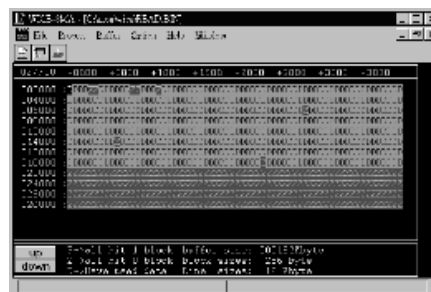
Range: to select the range of calculation

Max range: the maximum buffer range

File range: the maximum file range

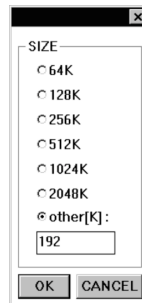
Insert File: Insert the file to the edit file. (only accept Binary type)

Use Map: use map to reflect the data of the edit file.



The window of use map

Buffer resize: resize the buffer



Size: select the length of buffer

4. Option



Introduction

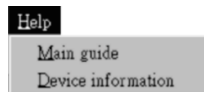
These selections are for you to set the working environment.

Hide status bar: you can hide status bar by choosing this

Text color: you have 15 colors option to choose

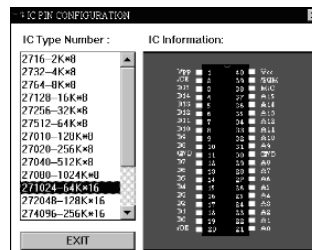
Big tools bar & Small tools bar: you can shift big tools bar or small tools bar

5. Help

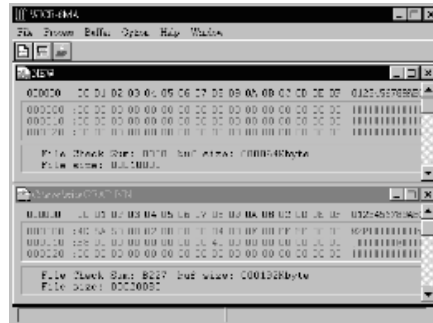


Main guide: You can choose this function if you have any question about WICE-4/8MA.

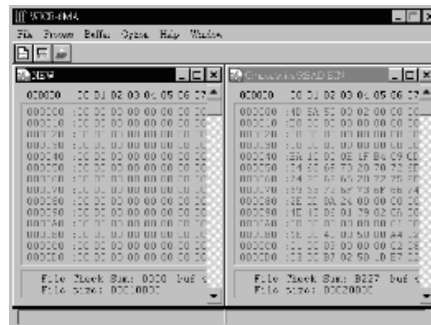
Device information: Show the information of emulated devices pinout like following.



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Tile [vertical]: to use horizontal way for arranging windows



[arrange windows by horizontal way]

Arrange Icons: to use arrange icons for arranging windows



[icons arrangement]

Close All: to close all of windows

7. Tools Bar



File---Load function



File---Save function



WICE Control box