Power Supply

Sockets

Parameters Saved

Function Keys

Editing function

Eproms Selection Guide

Display Examples

Memory type selection and access time

Copy of a master eprom

Number of Sockets Selection

2 copies of a Master Eprom

Access time Automatic Verify

Load and Program of 2 2764 eproms with 2 different contents

Empty Verify

RAM transfer from a memory

RAM Editing

Block Change

Bloc transfer

Automatic Search of 4 successive addresses

Search and automatic modify of 4 successive addresses Contents

Split Function

Ckecksum of full or partial RAM Memory

Parallel or Serial Interface

Input- Output

Formats

Power Supply

The programmer has a built-in Voltage Selector 240V/220V/120V/110V (to Select Voltage See Picture I and II)

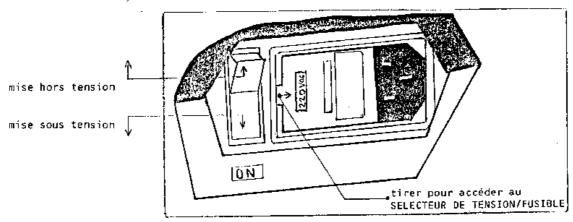


FIGURE I

The Power ratings are around 20 Watts

Main Line frequency: 50/60Hz

Fuse T 500mA (5x20) if 240/220V use

Fuse T 1A (5x20) if 110/120V use

To power the programmer press the switch to the bottom (ON). Then an automatic test will begin and display the Memory Type.

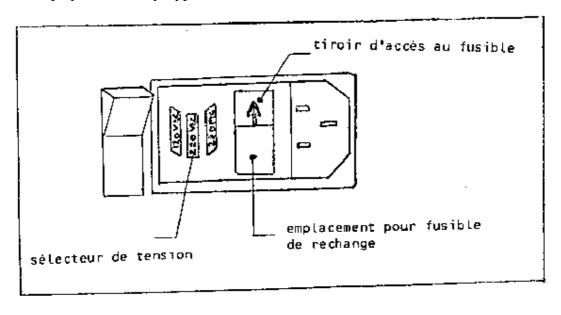


FIGURE II

Sockets

The sockets are ZIF.

No voltage until Empty, Verify and other functions Selected

28-pins Memories : Pin N°1 is bottom left

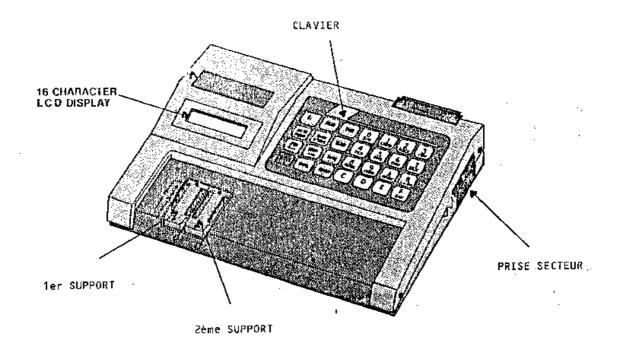
24-pins Memories: Pin N°1 is in the third pin from top left

Handing Cares

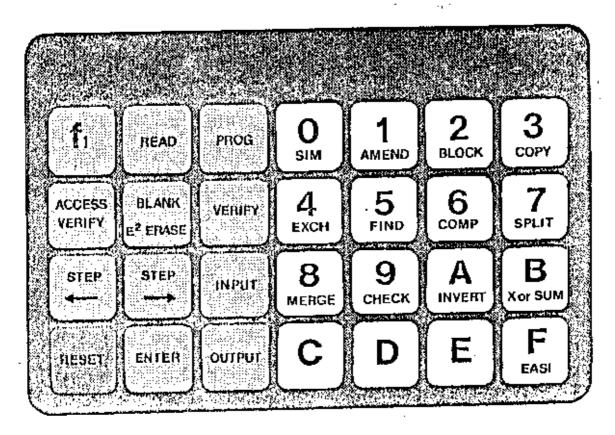
- Do not operate in non –ESD environment
- Do not power the programmer with Eprom inserted.
- Do not insert or remove memories when system is working progress
- fix the Memory in the right position; inverting is detected in most cases.

Backuped parameters

A battery included save the parameters of a 2Kx8 Ram saved in the previous Operation. Parameters as memory types, Access time, Mode, Number of Sockets, Serial Line or Parallel connection parameters.



C 41 COMPACT PROGRAMMER



MEMBRANE KEYPAD

Function Keys

F1 unused – reserved for future use

READ: Eprom Memory content sent to programmer's RAM from a selected Address.

PROG: Allow programming of the memories inserted in sockets 1 and 2 from a particular

address of the RAM.

ACCESS VERIFY: automatic Access Time Verify

BLANK: Empty-Verify

VERIFY: Compare the content of an Eprom in Socket 1 or 2 to the RAM content from a

defined Address

STEP: decrement or increment of the memories type, access times, number of memories to

copy, addresses when editing memory content when RAM against Copy compare.

INPUT: input: RS-232 transfer to RAM

RESET: Access to different steps of the selection

ENTER: Confirm current operation

OUTPUT: transfer RAM content to the serial or parallel line

Editing mode functions:

0-F: hexadecimal keyboard

0: simulating

1: addresses Selection

2: a value in RAM area

3: block transfer

4: Automatic change of the content of 4 successive addresses max.

5: Search of characters

6: Compare parity addresses

7: separate parity addresses

8: compare even or odd addresses

9: checksum

A: Complement RAM data

Guide of EPROMs selection

Tp: programming Access time Vpp programming Voltage

2508

2516/2716/27C16

2532

2732/27C32 Vpp: 25V 2732A Vpp: 21V

2564

2764 normal Mode Tp 6mn

2764 INT fast INTEL Mode: Tp 50 seconds approx. Vpp: 21V

2764 INT ID fast INTEL Mode + manufacturer identification Vpp: 21V

2764 FUJ Mode quick FUJI: Tp 25 seconds approx. Vpp: 21V

2764A Fast INTEL Mode: Vpp: 12.5V

QP2764A INT Quick pulse INTEL Mode: Tp: 4 seconds Approx. Vpp: 12.75V

QP 2764A INT Quick pulse INTEL Mode + manufacturer ID

27C64 INT

27C64 INT ID

87C64 Vpp: 12.5V

87C64 INT ID

QP87C64 Vpp: 12.75V QP87C64 INT ID

68764

27128 normal Mode: Tp:13 mn Approx.

27128 INT Fast INTEL mode: Tp: 1.40 mn Approx. Vpp: 21V

27128 INT ID Fast INTEL mode + Manufacturer Id

27128 FUJ Quick FUJI Mode: Tp 50 seconds Vpp: 21V

27128A Fast INTEL mode Vpp:12.5V

QP27128A Quick Pulse INTEL Mode: Tp: 10 seconds, Vpp:12.75V

QP27128A INT ID Quick Pulse INTEL Mode + Manufacturer Identification

27256 INT fast INTEL mode: Tp:3.3mn Vpp:12.5V

27256 INT ID fast INTEL mode + Manuf. Id Vpp: 12.5V

QP27256 Quick pulse INTEL mode: Tp: 20 seconds Vpp:12.75V

QP27256 ID Quick pulse INTEL mode + Manufacturer Id.

Important:

27C256 FUJ 21V only quick mode FUJI Tp:2mn Approx. Vpp:21V

27256 FUJ NMOS Use INTEL Fast mode Vpp:12.5V

27512 INT Fast INTEL Mode Vpp:12.5V

27512 INT ID Fast INTEL mode + Id. Vpp:12.5V

27512 AMD ID Fast AMD mode + Id.

27512 INT

27513 INT ID

48016

E4 Adapter required:

8741 E4

8742 E4

8748 E4

8748 H E4

8749 H E4

8755 A E4

E7 Adapter required:

8751 E7

8752 E7

E5 Adapter required:

68701 E5

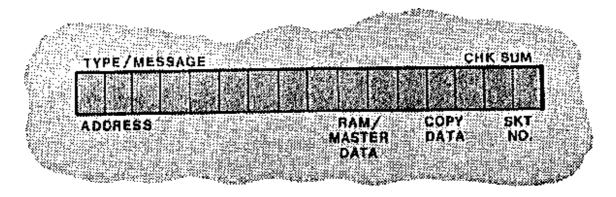
68701U4 E5

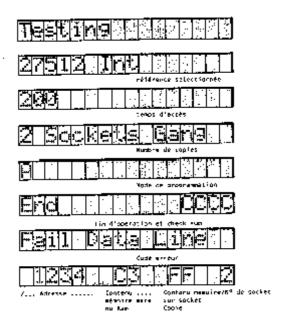
3-Voltages memories E13 Adapter required:

2704 E13

2708 E13

2716 E13





Memory type Selection and Access-time

- 1- Display indicates: example
- 2- Press "RESET": display blinks
- 3- Keep key "STEP ←- or →" pressed until type you want to select 2732
- 4- Press "RESET again : system beeps and indicates access time that can be changed with "STEP ← or →"keys between 100 to 450 ns
- 5- Press "RESET" for the 3rd time: display indicates number of sockets to will be used en modes used 1 SOCKET
- 6- Press "RESET" and select with "STEP" key mode B only for 2764 Texas; mode A for all other types: A

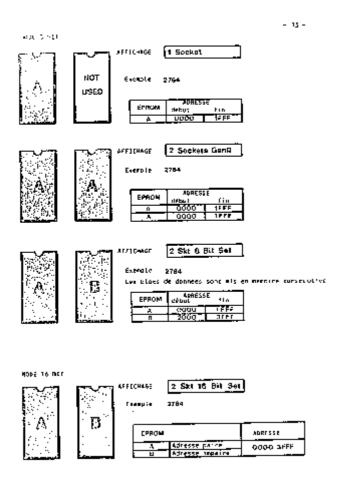
COPY of an EPROM from a master

Example: 2732

1- After selecting with above procedure the parameters 2732/350 select master memory on the left socket

- 2- To transfer the master content into RAM press "READ": display indicates start address of RAM loading; Press ENTER to confirm display indicates the Checksum.
- 3- Replace master memory with empty EPROM
- 4- Press "PROG": displays indicates Validate by "ENTER": Programming is done from Start Address 0000 (RAM) to the copy

The end of operation is confirmed by 8 beeps and display indicates END XXYY, XXYY is the Checksum.



2 IDENTICAL COPIES FROM A MASTER

Example 2 x 2732

Follow the steps part1 and 2 of the above last example.

- 3- Place 2 empty memories on the sockets
- 4- Modify the selection of the number of sockets by pressing 3 times the "RESET" key and increment by the "STEP" key until display indicates 2 SOCKETS GANG
- 5- Press "PROG" displays indicates 0000

The end of operation is signalled by 8 beeps end display indicates END XXYY

Automatic Access time Verify

Place the memory and transfer its contents into RAM

Press "RESET"

Press "ACCES VERIFY"

Validate with "ENTER"

Display indicates for example: ACC.TIME 250-1

RAM transfer Content into Memory

- 1- Select the type and place the EPROM in socket
- 2- Press "READ": Display indicates start address for loading into RAM that can be modified with the keypad.
- 3- Validate by pressing "ENTER": Ram transfer is executed and display indicates the checksum

RAM Editing

- 1- AMEND: to see the content of an address and eventually modify this content
- 2- BLOCK AMEND Place the same content between a start address and the end address to be defined
- 3- COPY BLOCK: Copy a block of data in a different zone of the RAM
- 4- EXCHANGE STRING: Search and modify 4 successive addresses Contents
- 5- FIND STRING Search 4 successive addresses contents
- 6- COMPARE RAM: Compare Ram to memory Master
- 7- SPLIT: place the content of odd addresses in start of RAM and even addresses in end of RAM
- 8- MERGE Opposite SPLIT Operation
- 9- CHECK SUM Calculate the checksum in a RAM area.

EXAMPLE:

AMEND

Replace the content of address

123 from 45 to 67

124 from A1 to A2

126 from C2 to 11

1- Select 1 on the keypad 000 2- Enter 123: Press "ENTER" to confirm 123

3- Enter 67: Press "STEP →"

4- Enter A2: Press "STEP →"

5- Enter 11:

123 45 67

124 A1 A2

124 C2 11

- 6- Press "STEP \rightarrow " or press "STEP ←" to verify.
- 7- Press "ENTER"
- 8- Press "RESET"

BLOCK CHANGE

Example: put the same data in RAM zone 5 5 from 150 to 175

- 1- Press 2: display indicates 0000
- 2- Enter 150
- 3- Validate with "ENTER"
- 4- Enter 0175
- 5- Validate with "ENTER" display indicates FF
- 6- Enter 55
- 7- Validate with "ENTER"
- 8- Finished

BLOCK Transfer

Example transfer the content of the previous example 55 from 150 to 175

1- Press 3 : display indicates : 0000

2- Enter start address 150 3- Enter end address 175 4- Enter target address 200

5- Confirm with "ENTER"

That's finished.

Automatic Search of content of 4 successive addresses

Example: enter 41, then 42, then 43, then 44 from address 100

1- Select 5: display indicates2- Set start address of the search zone0000

Validate with "ENTER"

3- Define end address of the search zone

Display blinks and indicates: 1FFF

4- Enter successively 41,42,43,44

If it exists in RAM the same content, the system will indicate the first address of it. To know if it exists other similar content press "ENTER".

On the other hand it is not necessary to enter the full data of the 4 addresses: you can enter 42, 43, 44 ENTER – ENTER.

Search and automatic change of the content of 4 successive addresses

Example: Replace all contents 41,42,43,44 by 41,42,44,45

- 1- Press 4 Validate start address of the search
- 2- Validate the end address 13FFF
- 3- Enter 41, 42, 43, 44: display blinks
- 4- Enter 41, 42, 44, 45: change is done everywhere the content is found.

"Split" Function

Press 7: display appear and disappear when operation is finished: This function set the data of odd—addresses in start of ram from address 0 and the content of even addresses in middle of the RAM area which is 8000 depending of the base—model capacity. It is better to realize this function during programming to take advance 2 SKT 18 BIT SET

Checksum Calculation of all or part of the RAM

- 1- Press 9
- 2- Enter start address of the RAM zone by pressing "ENTER"
- 3- Enter end address by pressing "ENTER"

Serial and Parallel Interfaces

Important: Before selecting input or output of the RAM content by the serial and parallel interfaces, proceed as follow:

- A- For RS232, Select:
- 1- Format
- 2- Speed
- 3- Parity, number of bits, number of stop bits

Note the corresponding references and requested values on the hereafter table:

| FORMAT | VITESSE | PARITE * | AFFICHAGE |
|--------------------|---------|--------------|------------------------|
| | | | |
| LABEL Printing | 50 | | |
| ASCII Hex Space | 75 | PAIRE | EV/PAR |
| INTEL std 8086 | 110 | IMPAIRE | OD/PAR |
| BINARY - no header | 135 | МО | NO/PAR |
| Tek Hex | 150 | Data Bits | |
| Mos Tech | 200 | 7 | 7 Db |
| Motorola S Rec | 300 | 8 | 8 Db |
| Dec Binary | 600 | Stop Bits | |
| Binary - header | 1200 | 1 | 1 St |
| Block Dump | 1800 | 2 | 2 St |
| RCA Cosmac | 2400 | Exemple : | |
| PPX | 4800 | 8 Db 2 St no | /par = |
| Texas Tags | 9600 | 8 Data bits, | 2 stop bits, No parity |
| ASCII BNPF | 19200 | · | |

Press "RESET" key until hearing 2 beeps.

Display is blinking and indicates for example INTEL STD X 8086

- a) increment or decrement by "STEP \leftarrow or \rightarrow " to select the format. When required format is ok , press "RESET"
- b) Display blinks and indicates, for example BAUD RATE 9600 Press "STEP ← or →" When requested Speed is selected press "RESET"

Display indicates for example 8 DB 2 ST NO PARITY

Press "STEP \leftarrow or \rightarrow " until getting the right information; Confirm with "ENTER"

B- For the parallel interface:

- Press "RESET to get 2 beeps
- Display indicates the format
- Press twice "RESET" display indicates speed, parity
- Increment by "STEP →" or decrement by "STEP ←" to get on the display : "PARALLEL"
- Confirm by pressing "ENTER"

INPUT: Allow RAMD loading through the serial RS232 line

- 1- Select the type of communication
- 2- Press "INPUT"
- a) With the formats INTEL/ MOTOROLA/ TEK HEX, display indicates: 0

It may be necessary to introduce an OFFSET

The RAM of the programmer is in the limit from 0000 to FFFF (or 1FFF with the 128 Kbytes Option) if start address is at C5000 (ex. With INTEL format) after input select C The loading will done from address 5000

b) With formats ASCII/BINARY/ DEC BINARY/ BINARY HEADER/ BLOCK DUMP/ ASCII BNPF, displays indicates: 0000

And can be modified in the limits of the RAM capacity from 0 to FFFF (1FFFF if 128Kbytes Option)

- c) Press 0 or 1 or 2 or 3 on the keypad to select the address of the EPROM content in your program (0000 to F000 for 8 bits): 0 1000 20
- 3- Confirm with "ENTER"

OUTPUT: After pressing "OUTPUT" display indicates: 0000

If the start address of the RAM is OK then press "ENTER" Display indicates (example) end address of the RAM : 3FFF If it is ok, Press "ENTER"

Otherwise enter the expected address and confirm with "ENTER"

NOTA: For the formats 1,3,7,8 the addresses scroll immediately after "ENTER" For the other formats it is necessary to press 0 for a target address 0000.

| | | | APPENDIX | A (Continued) | 545) | |
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| | | | | | t | (d |
| | | | | | | FAMILY |
| | Material Control of the Control of t | | #15000 White his the | | | PIN OUT |
| DEVICE | SIZE | TECH. | OUT | SELECTION | REMOTE | REMOTE |
| | | | HITACH | | | |
| | | | , all little | | | |
| HN480160 | 2k X 8 | NMOS | 24 | 48016 | 1A | SIMS |
| HN462716 | 2k X 8 | NMOS | 24 | 2716 | | 1923 |
| HN462716G | *** | *** | İT | | | 1923 |
| HN462532 | 4k X 8 | | | 28 28 | | 3125 |
| HN462732 | 11 | 11 | 11 | | | 1924 |
| HN482732A | ** | 91 | tt | 2732A | | 2724 |
| HN482732AG | | 11 | 11 | | 11 | 11 |
| HN482764 | 8k X 8 | HMOS | 28 | 2764 Int | 07 | 7933 |
| HN482764G | *1 | 11 | | | 07 | 7933 |
| Security of the property and property and the security of the | M ROME DE LES CONTRACTOR DE LE | | 77 | ** | | |
| | ** | CMOS | 99 | | 78 | ** |
| 204/002/05/00400000000000000000000000000 | 11 | *** | 11 | | ** | |
| | 16k X 8 | HMOS | | 27128 Int | OE | 7951 |
| DECEMBER 94000000000000000000000000000000000000 | | 11 | | *** | 12 | 71 |
| | | ** | | * ** | | |
| 20200000000 | | *1 | ** | 27256 Int | 12 | 9332 |
| | J _ | *** | ** | 11 | • | 91 |
| | 51 | CMOS | *** | | ** | |
| 1000E1909E B078505 28 1005 10 50 50 50 50 50 50 50 50 50 50 50 50 50 | 11 | " . | | | 11 | 91 |
| MMZ/GZJOG | | 986 | | | | |
| | | | INTEL | | | |
| 2758 | 1 to X 8 | MOS | 24 | 2508 | 00 | 1922 |
| 5000 VT | | | 11 | 2716 | 01 | 1923 |
| | | | | 2815 | 18 | 8523 |
| MANY PARTY MATER TRANSPORT | 11 | : 11 | ir | 2816 | 19 | 3723 |
| 9809090 90909 30099 100091 | Ale V R | NMOS | | 2732 | 03 | 1924 |
| | 11 | 11 | 71* | 2732A | 04 | |
| | Q1. V Q | ** | 28 | | 07 | 7933 |
| | | 11 | 11 | \$465796596000 31558965 FM2 (B13961211245969) WHING | OA | 9333 |
| | | CMOS | 10 | | 26 | |
| 27664 | | OHOD | | or 2764A | | |
| 97064 | 31 | 00 | 24 | 87C64 Int | 28 | W W - \$19920 |
| | 16k X 8 | NMOS | 11 | 27128 Int | OE | 7951 |
| 25 - 22 - 25 - 25 - 25 - 25 - 25 - 25 - | | 11 | | 27128A | 11 | 9351 |
| Service and Automatic Committee of the C | 321 X A | 19 17 | 11 | 27256 Int Id | 1.3 | |
| | | et | | 27512 Int Id | 16 | |
| 2/512 | 161. V R | 11 | 61 | 27513 Int | 24 | |
| | HN480160 HN462716 HN462716G HN462532 HN462732A HN482732AG HN482732AG HN482764G HN482764G HN27C64G HN27C64G HN4827128G HN4827128G HN4827128G HN27256G HN27256G HN27256G HN27C256G | HIN480160 | HN480160 2k X 8 NMOS NM462716 2k X 8 NMOS NM462716G " " " " " " " " " " " " " " " " " " " | NAME | DEVICE SIZE TECH. OUT SELECTION | DEVICE |

16k X 8

[X4 pages]

27513

27513 Int

| | | <u>V</u> | PPENDIX | A (Continued | t | <u>@</u> | | |
|----------|---------------|----------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|-----|--|
| DEVICE | ARRAY SIZE | TECH. | PIN | PROGRAMMER SELECTION | PRGMR CODE REMOTE | FAMILY PIN OUT REMOTE | | |
| | | | <u>OKI</u> | | | | | |
| | | 89 | | | ΔA | 1922 | | |
| MSM2758 | 1k X 8 | NMOS | 24 | 2508 2716 | 00 01 | 1923 | | |
| MSM2716 | 2k X 8 | P1 | | 2532 | 02 | 3125 | | |
| MSM2532 | 4k X 8 | | •• | 2732 | 03 | 1924 | | |
| MSM2732 | | ** | 9 | 2732A | 04 | 2724 | | |
| MSM2732A | ot v O | *** | 28 | 2764 Int | 07 | 7933 | *** | |
| MSM2764 | 8k X 8 | | | 100 100 100 100 100 100 100 100 100 100 | | | | |
| | | | | | | | | |
| | | | | | ₩ | ¥°? | | |
| | | ROCKWE | LL INTE | RNATIONAL | | | | |
| R87C32 | 4k X 8 | CMOS | 24 | 2732A | | | | |
| | | SE | EQ TECH | NOLOGY | | | | |
| | | 2 | | 2016 | 19 | 3723 | | |
| 5213 *1 | 2k X 8 | NMOS | 24 | 2816 2764 | 07 | 7933 | | |
| 5133 | 8k X 8 | | 28 | 27128 Int | 0E | 7951 | | |
| 5143 | 16k X 8 | M OC | H | 27256 Int | 12 | 9332 | | |
| 27C256 | 32k X 8 | CMOS | | | | | | |
| | SGS- | ATES Sem | iconduc | tor Corporati | <u>on</u> | | | |
| | | MAC | 24 | 2716 | 01 | 1923 | | |
| M2716 | 2k X 8 | NMOS | Z-4 | 2532 | 01 | 3125 | | |
| M2532 | 4K X 8 | | | A CONTRACTOR OF THE CONTRACTOR | | | | |
| | | | SIEM | ENS | | | | |
| SAB2716 | 2k X 8 | NMOS | 24 | 2716 | 01 | 1923 | | |
| | * | | SYNER | <u>rek</u> | *: | | | |
| SY2716 | 2k X 8 | NMOS | 24 | 2716 | Õ1. | 1923 | | |
| | | TE | XAS INS | TRUMENTS | | | | |
| | | 7 7 | | 2716 | 01 | 1923 | | |
| TMS2516 | 2k X 8 | | 24 | 2532 | 02 | 3125 | | |
| TMS2532 | 4k X 8 | | | 2732 | 03 | 1924 | | |
| TMS2732 | | ** | | 2564 | 05 | 3130 | | |
| TMS2564 | 8k X 8 | | | 2764 | 06 | 3533 | | |

TMS2764 *2

APPENDIX A (Continued)

| | | | | | t | @ |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|----------------------------------|----------|
| | | | | c. | PRGMR | FAMILY |
| | ARRAY | | PIN | PROGRAMMER | CODE | PIN OUT |
| DEVICE | SIZE | TECII. | OUT | SELECTION | REMOTE | REMOTE |
| | | Activities in the latest state of the latest states and the latest states are the latest states and the latest states are the latest | | | 550 AV ACADES AV 1020 AV 1020 AV | |

THOMSON (see EUROTECHNIQUE)

TOSHIBA

| | | | | | 39 2001 23 | | 0.1 | 1022 |
|-------------|--------|---|------|----|------------|------------|-----|------|
| TMM323D | 2k X 8 | 3 | NMOS | | 24 | 2716 | 01 | 1923 |
| TMM2732 | 4k X 8 | 3 | 11 | | 20 | 2732 | 03 | 1924 |
| TMM2732D | #1 | | ** | | | 99 | 03 | 1924 |
| TMM2764 *3 | RL X I | 3 | • | | 28 | 2764 Int | 07 | 7951 |
| TMM27128D > | | | 11 | | | 27128 Int. | OE | 7951 |
| TC57256D * | | | | | 11 | 27256 Fuj | 14 | |
| TMM27256 | 32k X | | tt | 11 | 77 | *** | | |

- *1. Can be programmed but cannot be chip-erased in one operation.
- *2. Use suppressed verify during programming for early versions of this device (i.e., mode B).
- *3. These devices may exhibit a noise problem in gang programming which gives mis-read or mis-verify. Select mode B and slow programming (2764 or 27128) and reduce number of devices in gang to three.

1 - ASCII HEX SPACE

- a) Caractère de départ "Control A"
- b) Data space data space etc
- c) Caractère de sin "control C"

2 - INTEL

- 3 FORMAT OPTIONAL Binaire
- 4 FORMAT TECKTRO

6 - FORMAT MOTOROLA

7 - FORMAT DEC BINARY

Binaire avec en-tête FFFF

8 - BINARY - BINAIRE

9 - BLOCK DUMP

| 1040 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
|-------------|------------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|--------------|------------------|
| 1050 | 3A | 23 | 10 | 27 | 31) | 22 | 21) | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | :£ā'="-abcdesghi |
| W2 80 80 80 | 20 | 20 | 71) | 21) | 21) | 21) | 21) | 64 | 6B | 6C | 60 | 6E | 6F | 70 | 71 | 72 | jklmnopqr |
| 1060 | 20 | 20 | 20 | 20 | 21) | 21) | 21) | JF. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 7A | stuvwxyz |
| 1070 | 2 <i>0</i> | 20 | 20 | 01) | 20 | 20 | 21) | 21) | 21) | 20 | 21) | 21) | 20 | 20 | 20 | 20 | |
| 1080 | 20 20 | 20 | 20 | 00 | 01) | 00 | 10 | 11 | 17 | 13 | 11 | 15 | 46 | 47 | 48 | 49 | éABCDEFGHI |
| 1090 | 70 | ZU | ZU | ZU | ZV | LU | TU | 41 | 46 | 47 | 77 | 70 | 7 0 | | | 2022-0-1-0-2 | 92490. 1075-2005 |