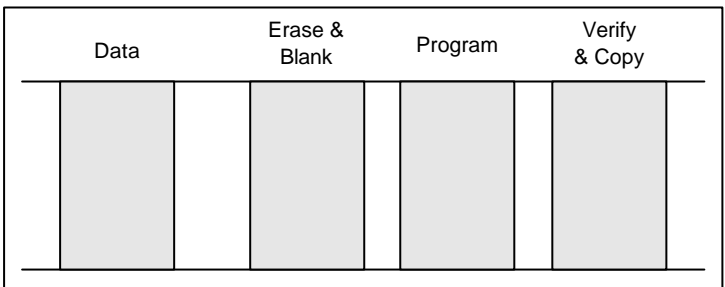


(New feature - Multi PAE)

In order to quicken the programming throughput, new feature that enables to program only on targeted sector is added. PAE enables to program only a single block. On the other hand, new feature detects data by sector blocks and enables to program only blocks where data should be in. (During mode setting, data is automatically scanned. Targeted blocks to be programmed are automatically set after the scanning.) It shortens the programming time by skipping blocks accordingly.

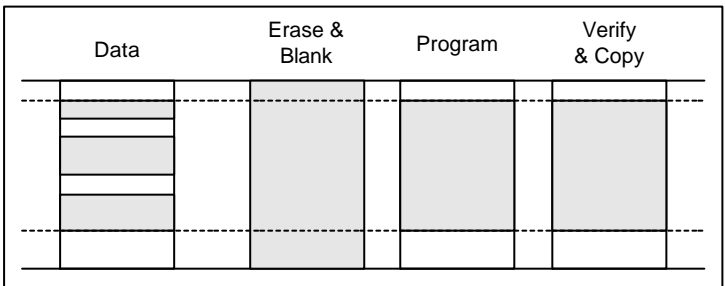
(Explanation of the feature)

Standard programming – All area of a device is targeted.



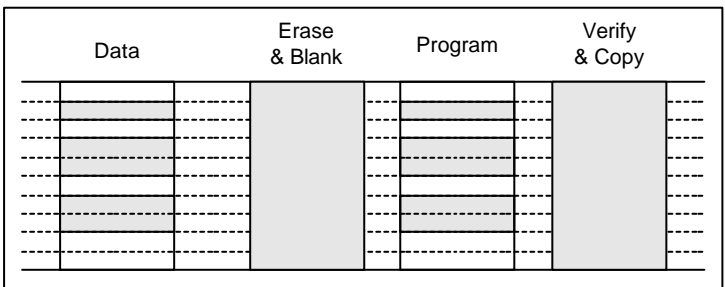
Erase, Blank, Program, Verify, Copy are targeted for all address of the device.

PAE –Only single designated address area is targeted.



Blank, Program, Verify, Copy are targeted to designated PAE area. Erase is targeted to all address area.

Multi PAE – Targeted to the blocks where data should be in.



During mode setting, the device programmer automatically scans and detects sector blocks where data exists to set designated blocks. Then programming is targeted only to the designated blocks. Erase, Blank Verify is targeted to all blocks.

(Remarks)

Set mode is cleared out when new device code is selected.
When data is changed after setting the mode, please set the mode once again.

(Explanation of the operation)

Setting

```

BLANK      N 16bitx 1
intel      cd:0E0875
E28F320S5
SU16-48D

```

Device should be selected and data should be copied in the buffer before selecting the mode.
Menu is displayed.

```

Main menu
[ Device func
  Buffer operation
  I/O Command
]

```

Device function should be selected.

```

Device function
Set Prg mode
[ PAE mode
  Read VCC
]

```

PAE mode should be selected.

```

PAE mode menu
Clear PAE mode
Single PAE mode
[ Multi PAE mode
]

```

Multi PAE mode should be selected.

(Single PAE mode is former PAE mode)

```

Multi PAE mode
Enable = 15/64
        blocks
OK -> START key

```

Data is scanned and the number of designated blocks is displayed.

```

Multi PAE mode
- - Canceled - -
<< no valid data >>
Hit any key!!

```

Mode is cancelled if there is not any valid data (other than \$FF)

```

BLANK      M  N 16bitx 1
intel      cd:0E0875
E28F320S5
SU16-48D

```

When the mode is successfully completed, M is indicated on the upper middle of the display.

Clear

```

PAE mode menu
[ Clear PAE mode
  Single PAE mode
  Multi PAE mode
]

```

Select Clear PAE mode at Clear PAE mode menu.

```

PAE mode Cleared
PAE data Clear ?(Y)
Select & ENTER Key

```

PAE mode is cleared. Then it asks if you wish to clear multi PAE block.

Press Yes to clear the information of the designated blocks.

```

BLANK      N 16bitx 1
intel      cd:0E0875
E28F320S5
SU16-48D

```

MA is disappeared from the display to confirm the mode is cancelled.

(Information of the block)

```

Multi PAE mode
Enable = 15 / 64
        blocks
OK -> START key
    
```

At Multi PAE setting as above

Pressing **COM** enables to display designated blocks

```





ADRS : 0078000 - 007FFFF
B : 15 000 : * * . . . . .
* : 6 010 : . . . . * * * * . .
0 - 063 020 : . . . . .
    
```

It displays the designated blocks that are currently set.

Pressing **COM** once again returns to the original display.

At the display of the block indicator,
 block address area can be displayed by moving underlined cursor
 The following is the detail of each.

Contents of the display	
ADRS : 0078000 - 007FFFF	displays the address where the cursor is located
BLOCK : 15	displays the number of blocks with cursor
MARK : 6	displays the number of blocks being set
EREA 0 - 0063	displays the total number of blocks can be targeted
0000 : * * * * * * . .	Asterisk indicates designated blocks to be programmed. Period indicates blocks without a designation to be skipped during programming
0020 :	
0040 :	

Key operation	
COM	display change between mode setting and block inf.
DEV	to cancel the mode setting
   	to move cursor
START	to set a mode

(Remote command)

Remote command		
P A E E x p a n d	PAE, start, end, offset	Setting single PAE (To sent start & end address and offset) Current setting is applied – using default value
	PAE	Read back of the current setting
	PAE,DIS	Cancel PAE (Return to default value)
	PAE,ENB	Cancel PAE (Return to default value)
	PAE,ENB	Move to single PAE Setting is unchanged. In case of normal to PAE, this is not valid.
	PAE,MLT	Move to multi PAE mode Scanning memory during PAE mode setting to set programming condition. If there is no data, error occurs.
	PAE,MOD	To return current PAE mode setting Example DIS :Standard mode ENB :Single PAE mode MLT 2 :Multi PAE applying block erase (program)
PAW	(Refer to RP command)	Programming block inf. in serial (Same as RP communication) Multi PAE mode is cancelled. bit1: programming inf. Bit 0:Erase inf.
PAR	(Refer to WP command)	Reading block inf. in serial (Same as WP communication) bit1: programming inf. Bit 0:Erase inf.
PAA	(Refer to ARP command)	Reading block address inf. in serial (Same as ARP communication) Returning the top address of each block
PAP	(Refer to RPP command) Remarks :Only for M1940	Reading block address inf. in parallel (Same as RPP communication) Multi PAE mode is cancelled bit1: programming inf. Bit 0:Erase inf.