

■ OUTLINE

The V9978 is a video display processor (VDP) which features as follows. Having a high-speed drawing and animation functions, it provides various screen modes which can be used for games, AV and OA purposes. Also, as a monitor, it supports many types of display units such as home TV sets, CRT for personal computers and LCD panels.

■ FEATURES

Game Specifications:

For this type, there are two pattern display modes as follows.

- P1 (Display resolution 256 × 212 2 screens)
- P2 (Display resolution 512 × 212)

Various highly advanced functions are available such as powerful sprite function and omnidirectional scroll function.

AV Specifications:

For this type, there are four kinds of bit map display modes which can be displayed on the NTSC or PAL frequency monitor as follows.

- B1 (Display resolution 256 × 212)
- B2 (Display resolution 384 × 240)
- B3 (Display resolution 512 × 212)
- B4 (Display resolution 768 × 240)

- Capable of doubling the resolution in the vertical direction by using the interlace.
- Display is possible up to 32,768 colors/dot.
- Built-in color palette (64 colors selected out of 32,768 colors).
- Omnidirectional smooth scrolling is possible.
- Superimposition and digitization are possible.

- Allows use of the monitor screen to the fullest extent in four directions as the display range by using the over-scan mode (B2, B4) in such application as for the telopper.
- Supports the high-speed hardware drawing commands such as the screen transfer, font color development and line.
- The hardware cursor display function is available.

OA Specifications:

For this type, there are two kinds of bit map display modes which can be displayed on the high resolution monitor as follows.

- B5 (Display resolution 640 × 400)
- B6 (Display resolution 640 × 480)

- Capable of displaying up to 16 colors/dot (Selectable out of 32,768 colors depending on the color palette).
- Omnidirectional smooth scrolling is possible.
- Supports the high-speed hardware drawing commands such as the screen transfer, font color development and line.
- The hardware cursor display function is available.

