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DENSAN
VME Solution Provider

VME bus
Board Products

DVE-102A

| Photo & Block diagram |

1. Overview

DVE-102A is a color character and graphic board for displaying characters and graphs on CRT displays in the FA field, and is a complete slave board compatible with the VME bus.

This board has separate circuits for character display and graphic display, improving character display speed and allowing easy operation of display functions such as blink, reverse, and overlay with graphic screens, making it a board that places importance on character display. Therefore, it is

suitable for applications that require high speed character display or mixed display of graphics and characters.

2. Specifications

VME bus	VRAM	Memory Address Area	Standard address area (24 bits)
		Data Width	8/16 bit access possible
		capacity	32K bytes x 4 banks
		Address setting unit	32K byte units
	HD63484 HD6445, Other	Memory Address Area	Short address area (16 bits)
		Data Width	8/16-bit access possible (HD63484 only supports 16-bit access)
		capacity	24 bytes
		Address setting unit	64-byte units
	Interrupt Settings		Can be set to any one of IRQ1 to IRQ7
Character Display	Character Controller		HD6445 (CRTC-II)
	VRAM		32K bytes x 4 banks (static RAM)
	Total number of characters		8192 characters (half-width)
	display	Half-width	80 characters x 30 lines (640 x 480 dot display) 80 characters x 25 lines (640 x 400 dot display)
		Full-width	40 characters x 30 lines (640 x 480 dot display) 40 characters x 25 lines (640 x 400 dot display)
	Character Type	8×12	Large and small ASCII + Katakana
		16 x 16	Kanji (JIS first level)
	Video output and display color	Video Output	Analog RGB (2 channels)
		Display Color	Simultaneous display of any 15 colors out of 16.7 million colors (2 channels)
	attribute		Blink 1: Blink with background color Blink 2: Blink with reverse Reverse 4-split horizontal display possible Smooth vertical scrolling possible for each split screen

	Overlay with graphic screen	0: REP (Replace) 1: OR 2: AND 3: EOR
	cursor	Can generate two character cursors
Graphical display	Graphics Controller	HD63484 (ACRTC)
	Frame Buffer	1MB
	Logical Address (Drawing Area)	1024 x 2048
	Physical Address (Display Area)	640×480 640×400
	Display Color	Any 15 colors out of 16.7 million colors can be displayed simultaneously (shared with the character screen)
Power Consumption	+5V 1.5A (typ)	
Appearance	Double height single slot VME board (6U)	
	height	233.35 mm
	Depth	160mm
	width	20mm
connector	J1 (Analog RGB1)	DSUB15P
	J2 (Analog RGB2)	DSUB15P
Environmental conditions	temperature	0℃ ~ 60℃
	Humidity	5% to 90% (at 25℃) but no condensation.

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