

VGA Module, VGA/LCD Module MSMVGA104, MSMVGA-LCD104

Features

- Mono STN, Color STN, Color TFT, Plasma, EI
- Simultaneous CRT and LCD operation
- Resolution up to 768 x 1024 pixels
- Multi-BIOS for different flat panels
- 0.5MB (optional 1MB) display memory
- 8- or 16-bit PC/104 bus supported
- LCD voltage generation on-board
- Download of Custom LCD-BIOS
- Customized BIOS in Flash available
- Contrast and back light programmable
- Low power consumption
- Power management
- Single 5Volt supply
- PC/104 form factor
- PC/104 BUS



Description

The VGA/LCD interface is 100% compatible to the VGA and SVGA standard and emulates CGA, MDA, EGA, VGA modes. The stand-by power management significantly reduces the power consumption when the system is not active. The controller supports fixed and multi-frequency analog CRT monitors. CRT, LCD modes or both simultaneously can be enabled/disabled by software commands. The onboard display memory allows to display resolutions up to 1024 x 768 pixels with up to 16 colors. The onboard LCD voltage generator produces a wide range of -15V to +30V.

The FLASH BIOS Support Feature from Digital Logic handles most of the flat panels of different technologies and from various suppliers. It consists of an EPROM that holds 4 generic VGA BIOS and a FLASH that can hold up to 4 additional customer programmed LCD BIOS. VGA and LCD BIOS can simultaneously be used.

A LCD programming tool disk is provided with the board.

Ordering Information

Item codes	Part #	Description
MSMVGA104-LCD	801127	PC/104 VGA 65545 CRT/LCD w/VEE
MSMVGA104	801129	PC/104 VGA 65545 CRT, no LCD, no VEE

Technical Specifications

Features	Functions	Remarks
VGA Controller	C&T65545	
VGA Memory	512 kBytes	
Modes	CRT, LCD, simultaneously CRT/LCD	
Interfaces		
Version VGA-LCD	CRT/LCD Mono, TFT, STN Color, Backlight, Contrast, VEE	
Version VGA	CRT only	
CRT	Analog Monitor	10pins
Flat Panel	STN Mono; STN Color 640 x 480; TFT Mono; TFT Color 9-18 bit; Plasma / EL - Displays	34pins
Contrast	Software programmable	
Backlight	Software programmable	
Resolutions	640 x 480 - 256 colors 800 x 600 - 256 colors 1024x768 - 16 colors	
Drivers	WIN3.1/95/98, ACAD, NT3.5/4	
BIOS Setup		
Standard BIOS	Multi-BIOS for CRT, TFT STN	
Custom BIOS	Downloadable into Flash BIOS	
Electrical		
Power Supply	+5VDC, 250mA	
Powersupply LCD	+/- 15 to 30V, 50mA, generated on-board	
Environment		
Dimensions	3.8" x 3.6" x 0.8" (96x90x20mm)	
Bus	PC/104	104 stack through pins
Operating Temp	-13°F to +185°F (-25°C to +85°C)	
Storage Temp	-85°F to +257°F (-65°C to +125°C)	

Manufacturer	USA Distributor & Support Center	Representative
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