



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

## Feature

- Mono STN, Color STN, Color TFT, Plasma, EI
- Simultaneous CRT and LCD operation
- Resolution up to 768x1024 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



## Technical Specifications

FEATURES	FUNCTIONS
Function	VIDEO/LCD
Controller	C&T 65545
Connector	CRT, LCD
Bus	ISA
Onboard Flash	32kB BIOS
Remarks	-
Power Normal	5V/260mA (typ.)
Power Suspended	5V/200mA (typ.)
Operating Temperature	-25°C to +70°C
Extended Temperature	-40°C to +85°C
Weight (gr)	80
MTBF	>100'000h

## 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 modules or both simultaneously can be enabled/disabled by software commands. The onboard display memory allows to display resolutions up to 1024x768 pixels with up to 16 colours. The onboard LCD voltage generator produces a wide range of -15V to +30V. The FLASH BIOS Support Feature from Digital Logic handles more 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 toll disk is provided with the board.

## Ordering Information

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

Data is subject to change without notice