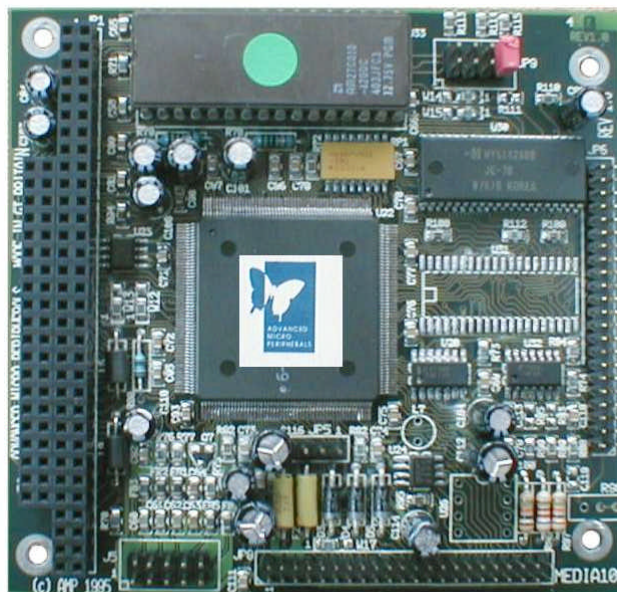


Media104

CRT and Flat Panel Display Controller



General Description

The **Media104** provides a compact and cost-effective display interface controller suitable for driving a wide range of digital **Flat Panels** from all the major manufacturers.

With display memory capacity of up to 1 MBytes DRAM, the Media104 is able to directly drive most models of digital Flat Panels (operating with +5V logic interface) at resolutions of up to 1024 x 768.

An optional video overlay feature allows the Media104 to be combined with the MTV104 Video Frame Grabber and Overlay Controller for **Video Overlay and Annotation** applications.

This combination allows live video to be captured, re-sized, cropped, positioned and mixed with VGA text/graphics and displayed on CRT and TFT Flat Panel displays.

Features

- Direct drive for digital Flat Panels
- Supports STN, TFT, EL, Plasma Flat Panels
- Supports display from 640x480 to 1280x1024
- Optional Live Video Input (with MTV104)
- Optional live video Overlay and Annotation
- Extended drive capability (option)
- Display Drivers for Windows, Linux, etc
- Standard 16-bit PC/104 interface
- Compact 3.6in x 3.8in PC/104 form factor
- Single +5V power supply

Applications

- Low cost and compact Flat Panel Display
- Medical and Industrial displays
- Rugged displays for Avionics
- Robotic systems and OCR
- Video Overlay/Annotation for Avionics
- Remote location of Flat Panel

Media104

CRT and Flat Panel Display Controller

Hardware Acceleration	32-bit Graphics Engine supporting BitBlt operations Hardware line drawing and hardware cursor
Display Resolutions	Flat Panel Resolutions up to 1024 x 768 CRT Resolutions up to 1280 x 1024 640 x 480 at up to 16M colours 800 x 600, 1024 x 768 at up to 256 colours 1280 x 1024 at up to 16 colours
CRT Video Output	Standard analogue RGB and Synchs for driving VGA Monitor
Flat Panel Output	True Colour and High COlour support to Flat Panels 24-bit Digital Output +5V logic drive interface to Flat Panels Support for STN, TFT, EL, Plasma technologies Extended drive capability (option) for up to 6m cable
Display Memory	512KBytes display DRAM (1024KBytes option) Standard Paged (or fast Linear) display memory access
Bias Voltage Generator	Negative and positive Bias Voltage (option) for STN Flat Panels Adjustable form -30V to +30V
Overlay and Annotation	Optional 16-bit live video input port for MTV104 Video Overlay Provides clocks and Synchs to MTV104 Accepts digital live video and Colour Key from MTV104 Mixing of live video with text/graphics on Flat Panel and CRT
PC104 Bus Interface	Standard 16-bit PC/104 Interface
Miscellaneous	Single +5V at less than 500mA Operating Temp of 0 to 60degC (Extended Temp option) Standard 3.6 x 3.8in PC/104 form factor
Software	Drivers software support for MSDOS, Windows3.11, Linux
Related Products	MTV104 Frame Grabber/Overlay Controller Combines with Media104 for live video overlay to CRT and Flat Panel
Ordering Information	Media104-512 Standard MEDIA104 with 512KBytes DRAM Media104-1024 Standard MEDIA104 with 1024KBytes DRAM Media104-512/V MEDIA104 with 512KBytes DRAM, Video Overlay Option Media104-1024/V MEDIA104 with 1024KBytes DRAM, Video Overlay Option Media104-1024/V-B MEDIA104 with 1024KBytes DRAM, Video Overlay Option, Bias Voltage