



Product Brief

Z2EV1 Ultra-Compact Single Board LCD Controller

Features

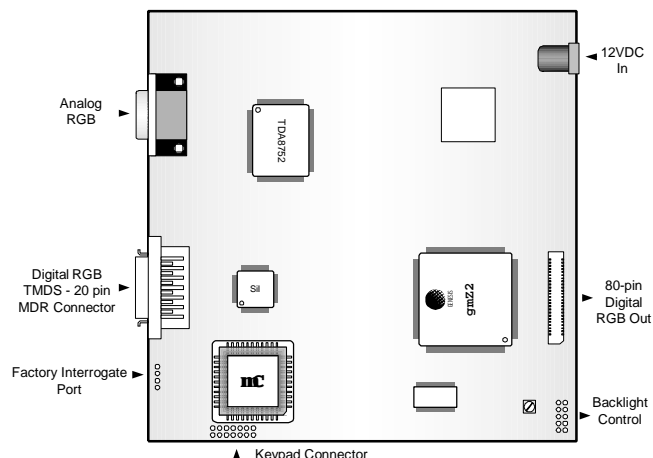
- Accepts and auto-detects analog and digital RGB inputs up to 1024 x 768 at 75Hz
- Supports VESA's DPMS DDC1 and DDC2B standards
- Output frame rate locked to input
- Fast auto image configuration
- Output drives multi-frequency capable 1024x768 LCD panels at up to 85Hz minimum blanking frame rates
- Ultra-compact single board assembly (13 x 13 x 1.5cm plus power supply) is suitable for mounting behind an LCD panel
- Designed with the highest level of integration to offer a low solution cost
- Four-button keypad interface and on-screen menus allow adjustments to the system
- Power save features
- An SCI Factory Interrogate Port is available for system status and override
- A full manufacturing kit, including firmware, schematics, bill of materials and licensing fee is available

Description

The Z2EV1 Reference Design incorporates the components necessary to create a low-cost, standalone LCD-based multiple frequency monitor (CRT replacement system) for desktop PC applications. The Z2EV1 accepts analog and digital RGB VGA, SVGA and XGA formats. The on-board gmZ2 ImEngine™ zoom scaler provides a very high quality digital output suitable for driving 50-85Hz XGA LCD display panels.

The gmZ2 implements logic to allow the monitor to auto-detect and auto-optimize a video source. An on-board 8051-based microcontroller functions as the main system controller responsible for system initialization, the OSD user interface, input mode auto-detection / image auto-optimization algorithms, and other housekeeping functions. Z2EV1 software (included in the evaluation package) allows the designer to control all system registers via a PC Windows interface and RS-232 port.

Z2EV1 Layout



Applications

- Designed for integration with an LCD panel and single 12V DC power supply to create a standalone PC CRT replacement



Genesis Microchip