查询IP00C711供应商

速商 連多邦, 专业PCB打样工厂, 24小时加急出货 「POOC711 (SCREEN3) Image Scaling Device

General Description

The IPOOC711 (SCREEN3) is a highly integrated device for real-time color image scaling and frame rate conversion up to SXGA resolution. The IPOOC711 supports all the critical functions required in any display control logic: image scaling, frame rate conversion and de-interlacing. Ideally suited for driving LCD displays, video walls and projectors, the IPOOC711 uses a proprietary pixel interpolation technique for producing images of the highest quality.

The IPOOC711 can be used in a wide variety of applications, thanks to its very flexible architecture that supports both standard and custom image formats. For processing video signals, the IPOOC711 interfaces directly to any video decoder chip and achieves de-interlacing by line interpolation or field merging. With independent clock and synchronization signals for the input and output ports, the IPOOC711 can perform image scaling even when the input and output images have different frame rates.



- IP00C711 Data Sheet and Application Notes
 - EVB711AD Evaluation Board
 - Example register settings for typical operating modes
 - Technical Support by highly qualified engineers

LCD/TV Monitors Plasma Displays

dzsc.com

Video Walls

Flat-Panel Displays

Projection Systems



IP00C711 Features

Input Image Formats

- RGB 48-bit (2 pixels/clock) at 160 Mpixels/sec.
- RGB 24-bit (1 pixel/clock) at 90 Mpixels/sec.
- YUV4:2:2 (16 bits) at 80MHz
- Image size up to 2400 pixels horizontally with 1920 pixels of active video
- Interlaced or non-interlaced
- External synchronization (HSync, VSync, CLK)

Output Image Formats

- RGB 48-bit (2 pixels/clock) at 108 Mpixels/sec.
- RGB 24-bit or 30-bit (1 pixel/clock) at 70 Mpixels/sec.
- External or internal synchronization modes

Scaling

- · Independent horizontal and vertical scaling ratios
- Programmable interpolation coefficients
- Non-linear scaling
- Keystone correction
- 16:9 to 4:3 conversion

Image Memory

- SDRAM or SGRAM external frame memory
- 48-bit wide memory bus
- 128 Mbytes of addressable image memory
- Direct access to image memory from the CPU

Frame Rate Conversion

- · Asynchronous operation of the input and output ports
- · Frame synchronization function to avoid frame tearing

Other Features

- 16-color OSD support
- · Auto-detection of input image format
- Gamma correction
- Brightness and contrast adjustments
- YUV to RGB color conversion
- 10 to 8-bit conversion
- 8 to 6-bit conversion

CPU Interface

• 4-wire serial bus

Power Supply Voltage

- 3.3V single source
- Package
- PQFP-256 pins (0.4 mm pitch)

i-Chips

For all inquiries, please contact:

JPA Electronics Supply, Inc. • 4800 Great America Pkwy., Suite 205 • Santa Clara, CA 95054 Phone: (408) 844-0530 (U.S.): 1 (800) 392-4447 Fax: (408) 844-0536

www.i-chipstech.com