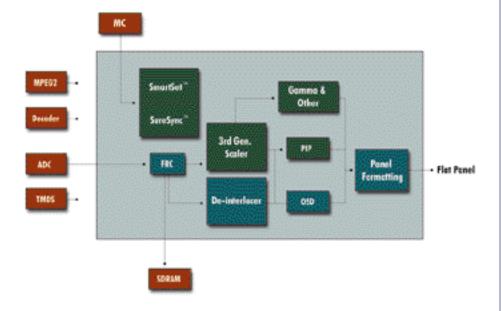


Jag200/Jag200Mx

High Performance, SXGA, UXGA, WUXGA Digital Display Processor

The highly flexible Jag200/Jag200Mx is the first product from the Jaguar family of Digital Display Processors. The Jag200/Jag200Mx, Digital Display Processors accept input from multiple sources and displays on any flat panel display. The Jag200 input port has the bandwidth to accept inputs as high as UXGA@75Hz. The high performance Jag200Mx input port has the bandwidth to accept inputs as high as WUXGA@60Hz. Jag200/Jag200Mx has integrated a high quality 3rd generation scaling engine, a highly flexible OSD, and superior video support including picture in picture.





Features

Supports Multiple inputs simultaneously

Accepts two DVI compliant digital inputs or two analog inputs simultaneously

Glue-less interface to TMDS Receivers or ADCs

Support for 1 or 2 pixel/clock

Accepts PAL/NTSC video input from all major Video Digitizer sources

3rd Generation Scaling Technology

Supports image expansion and reduction

Up scale or down scale from any industry standard input resolutions up to UXGA/WUXGA to any industry standard panel resolutions up to UXGA/WUXGA

Independent interpolated X and Y scaling to any format (incl. non-standard formats)

Conversion between 4:3 and 16:9 aspect ratio

High Performance Architecture

1.2 Gbytes/Sec bandwidth

Input port has bandwidth >200 Mpixels/sec

Output port bandwidth >200 Mpixels/sec



Advanced Video Features

Glue-less interface to widely available Video digitizers

CCIR 601/656 PAL/NTSC Input capability

Integrated YUV to RGB converter

On chip De-interlacing support and Expansion of TV images

Video overlay to the VGA data

Highly flexible On Screen Display (OSD)

Character based OSD with 16 foreground and 8 background colors

Support for up to 16 colors for character/displaying logos and ICONS

Supports transparency and blending

Independent X and Y overlay/menu Zoom by a factor of (1 to 8)

Flexible character generator for variable sizes up to 16x32

Character attributes for 1, 2, 4 bits/pixel

Fully programmable OSD memory of 4k x 16bits

Multiple language support

SureSync[™] and SmartSet[™]

Automatically detects and syncs to changes in incoming resolution and refresh rate

Composite sync input measurement and extraction

Fast, Automatic optimization of Phase, Hsize, Vert & Horz Position

Flexible Panel Display Support

Support for 1 pixel/clock (18 and 24 bit), 2 pixel/clock (36 and 48 bit) TFT panels

Support for 24 bit/pixel RGB CRT output

Flexible TFT/CRT timing controller

Panel Resolutions supported

Input resolutions: 1920x1200 @60Hz, 1600x1200 @75Hz, 1280x1024 @ 85Hz, and 1024x768 85Hz

Output Resolutions up to 1920x1200 and1600x1200

Hi Fidelity Color Mapping

24 bit/pixel (8 bit each for R, G, B)

10-bit Gamma correction for true color display

Optional 24-bit to 18-bit high quality dither support

High fidelity Color Mapping – up to 16M colors

Flexible Memory Interface

Supports a 32, 48 and 64 bit wide SDRAM / SGRAM with 4.6 or 8 MB of memory

Support memory as high as 143/166 MHz

System Interface Support

External 8-bit micro controller host

GPIO pins can be programmed as Interrupt, PWM channels etc.

2 wire serial host interface

3.3V Operation

352-ball BGA Package

Maximum SDRAM Clock 143Mhz/166MHz



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