

Digital Blocks Qualifies the DB9000 TFT LCD Controller IP Core Family for High Resolution Medical, Industrial, Monitor, and Cinema Applications

The single DB9000 TFT LCD Controller IP Core in Verilog supports LCD panel resolutions from 240x240 up to 4096x4096.

GLEN ROCK, New Jersey, Dec 30, 2010 – Digital Blocks, a leading developer of silicon-proven semiconductor Intellectually Property (IP) soft cores for system-on-chip (SoC) ASIC, ASSP, & FPGA developers with embedded processor & peripherals, networking, display controller, 2D graphics, or video processing requirements, announces the qualification of the DB9000 TFT LCD Controller IP Core to support the most demanding high resolution LCD panels.

“While the DB9000 TFT LCD Controller IP Core has supported 4096x4096 LCD panels from its initial market introduction, over the years, with our customer engagements, we have added features to the DB9000 to support mid range and high resolution LCD panels,” said Steven Stein, President of Digital Blocks. “These include 1, 2, & 4 port LVDS interfaces, as well as DVI, HDMI, and DisplayPort interfaces.”

The DB9000 IP Core supports SoC / SLI, ASIC, ASSP, & FPGA fabrics interfacing to SDRAM frame buffer memory with 32-, 64-, 128-, or 256-bit data widths, supporting AXI, AHB, Avalon, PLB, and OCP protocols. With respect to the AXI protocol, the DB9000 supports multiple outstanding memory requests, supporting the most demanding, highest resolutions panels.

Support for high resolution LCD panels includes Cinema Scope HD 2560 x 1080, Digital Cinema Systems (DCI) 2048 x 1080 2K image and 4096 x 2160 4K image resolutions, and 10 M Pixel 4096 x 2560 resolution panels. A complete listing follows:

Format	Resolution
Square	240 x 240
QVGA	240 x 320
	240 x 400
	320 x 240
16:9 Aspect Ratio	480 x 234
	480 x 272
VGA	480 x 640
	640 x 480
WVGA	480 x 800
	800 x 480
SVGA	800 x 600
960x540	960 x 540
WSVGA	1024 x 576
	1024 x 600
XGA	1024 x 768
SXGA	1280 x 1024
HD / WXGA	1366 x 768
WXGA+	1440 x 900

Format	Resolution
HD+	1600 x 900
UXGA	1600 x 1200
WSXGA+	1680 x 1050
Full HD	1920 x 1080
WUXGA	1920 x 1200
DCI 2K	2048 x 1080
3M pixels	2048 x 1536
CSHD	2560 x 1080
5M pixels	2560 x 2048
8M pixels	3840 x 2160
DCI 4K	4096 x 2160
10M pixels	4096 x 2560

Price and Availability

The DB9000 TFT LCD Controller IP Core family is available in synthesizable Verilog / VHDL, along with a simulation test bench with expected results, datasheet, and user manual. For further information, product evaluation, or pricing, please go to Digital Blocks at <http://www.digitalblocks.com>

About Digital Blocks

Digital Blocks designs silicon-proven IP cores for technology systems companies, reducing customer's development costs and significantly improving their time-to-volume goals. Digital Blocks is located at 587 Rock Rd, Glen Rock, NJ 07452 (USA). Phone: +1-201-251-1281; Fax: +1- 702-552-1905; Media Contact: info@digitalblocks.com; Sales Inquiries: info@digitalblock.com; On the Web at www.digitalblocks.com

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