Key Design Features

- Synthesizable, technology independent VHDL IP Core
- Decoding of a bayer-mapped image from an image sensor or Colour Filter Array (CFA)
- Supports all image resolutions from 16 x 16 pixels up to 2^{16} x 2^{16}
- Support for all sensor pixel widths from 2-bits and above
- Support for different CFA sensor alignments
- Fully pipelined architecture with simple flow control
- Input and output ports can interface directly to a FIFO if required
- Features a 5x5 polyphase interpolation filter
- Output 1 x 24-bit pixel per clock
- No frame buffer required
- Small implementation size
- Support for 300 MHz+ operation on basic FPGA devices[1]

Applications

- Bayer-mapped to 24-bit RGB decoding (de-mosaicing)
- Digital camera image processing
- Forms an essential first stage in most digital processing pipelines that contain an image sensor

Generic Parameters

Generic name	Description	Type	Valid range
dw	Sensor width in bits	integer	≥ 2
line_width	Width of linestores in pixels	integer	2^4 < pixels < 2^{16}
log2_line_width	Log2 of linestore width	integer	log2(line_width)
sensor_align	Bayer pattern sensor alignment	integer	0 : BGBG …. GRGR …. 1 : GBGB …. RGRG …. 2 : GRGR …. BGBG …. 3 : RGRG …. GBGB ….

1 Xilinx Virtex6 used as a benchmark

Block Diagram

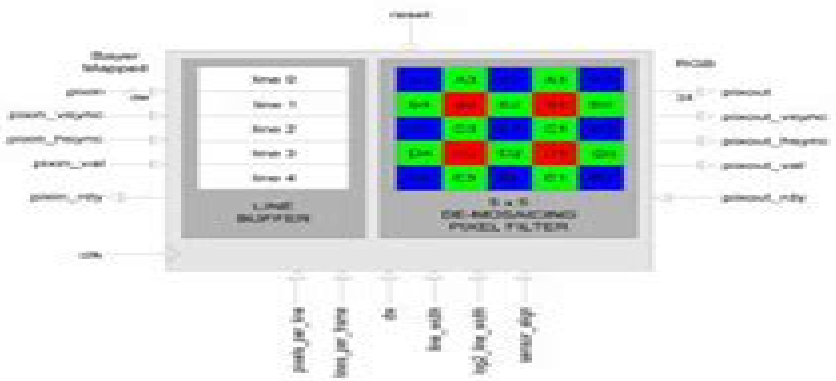

Figure 1: Bayer-to-RGB converter architecture

Pin-out Description

Pin name	I/O	Description	Active state
clk	in	Synchronous clock	rising edge
reset	in	Asynchronous reset	low
pixels_per_line	in	Number of pixels per line Range: 2^4 < lines < 2^{16}	data
lines_per_frame	in	Number of lines per frame Range: 2^4 < lines < 2^{16}	data
pixin [dw - 1:0]	in	n-bit bayer-mapped pixel in	data
pixin_vsync	in	Vertical sync in (Coincident with first pixel of input frame)	high
pixin_hsync	in	Horizontal sync in (Coincident with first pixel of input line)	high
pixin_val	in	Input pixel valid	high
pixin_rdy	out	Ready to accept input pixel (Handshake signal)	high
pixout [23:0]	out	24-bit RGB pixel out	data
pixout_vsync	out	Vertical sync out (Coincident with first pixel of output frame)	high
pixout_hsync	out	Horizontal sync out (Coincident with first pixel of output line)	high
pixout_val	out	Output pixel valid	high
pixout_rdy	in	Ready to accept output pixel (Handshake signal)	high

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