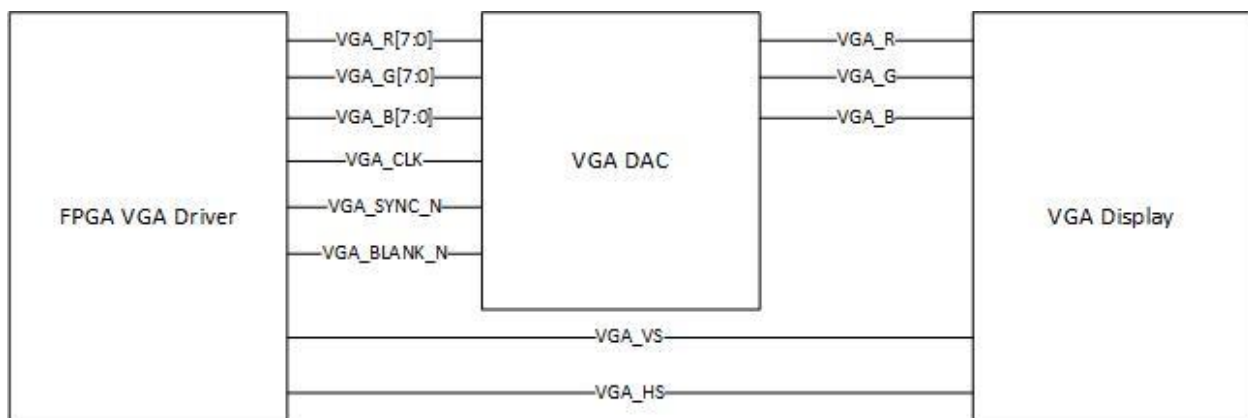


Demonstration video link: <https://youtu.be/v2KG8laFiuo>

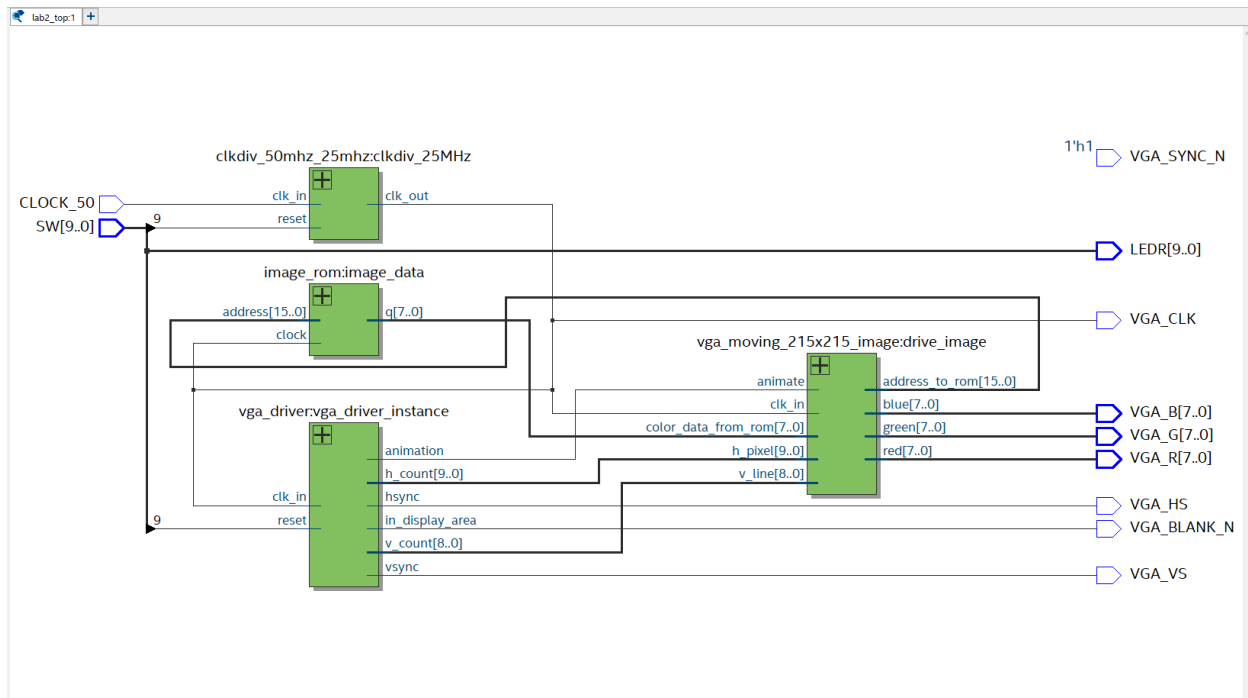
Timing calculations and data:

Resol- ution	Refresh Rate	Pixel Clock	Horizontal				Vertical			
			Display	Front Porch	Sync	Back Porch	Display	Front Porch	Sync	Back Porch
640x480	60Hz	25MHz	640	16	96	48	480	10	2	33

System block diagram:



RTL schematic:



What is the pixel clock required for 640 x 480 resolution at 60Hz?

- 25.175MHz or 25MHz

What is the pixel clock required for 1920 x 1080 at 60Hz?

- 148.5MHz