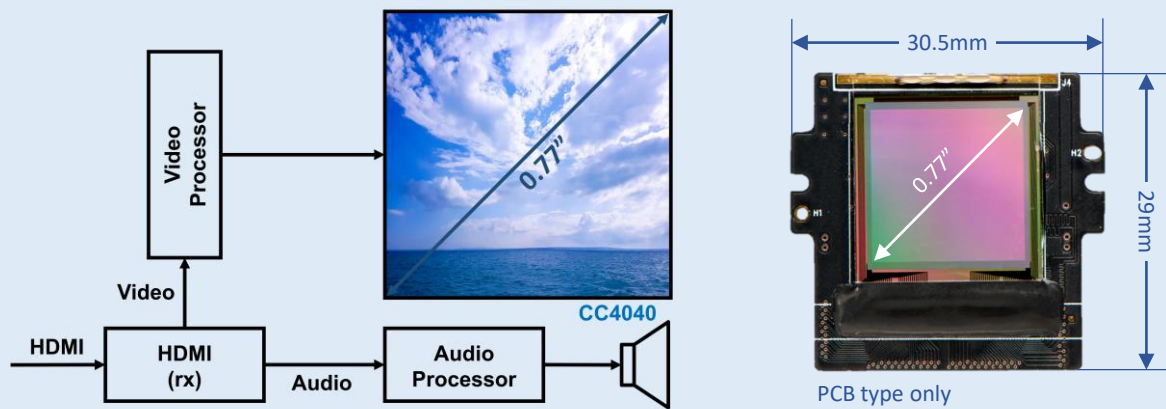


CC4040 is a 4096x4096 pixel array based imager for micro display applications, which consists of Liquid Crystal on Silicon(LCoS) Spatial light modulator(SLM) micro display.

CC4040 is designed to be used in wide range of applications including virtual reality(VR), augmented reality(AR) and other projection displays. Its sharp 4K Ultra High Definition(UHD) resolution allows users to experience media in great details and vibrant colors with 120 frames per second(fps).

Its highly efficient design utilizes loading of 64 pixels simultaneously to minimize power consumption without sacrificing the refresh rate to provide smooth and realistic motion pictures.



Features

- UHD 4096x4096 resolution
- 120 frame per sec refresh rate
- Efficient IO placing for system integration
- Vivid colors with true black
- AR VR applications
- 64 parallel pixels loading
- Compact input data interface
- Horizontal and vertical image flipping
- Cost efficient system design
- Low power consumption

Parameter	Specification	Units
	CC4040	
Pixel Matrix	4096 x 4096	Pixels
Active Matrix	3840 x 3840	Pixels
Active Matrix Area	13.82 x 13.82	mm
Display Size	0.77	in
Pixel Mirror / Pixel Pitch	3.35 / 3.60	um
Aperture Ratio	86.59	%
Dot Clock	125.0	MHz
Video Drive Method	Invert video every frame, 64 pixels per dot clock	