

# CC1080S

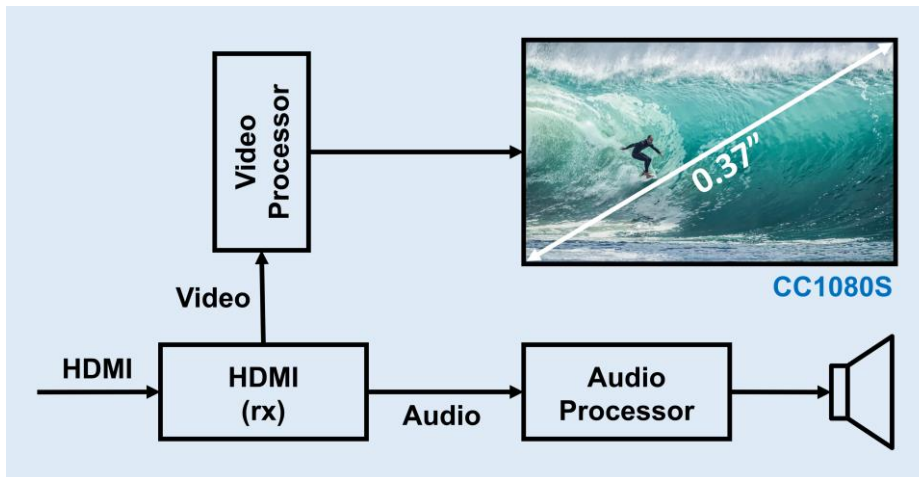
FHD LCoS SoC | 1920x1080 0.37"



CC1080S is a 1936x1096 pixel array based imager for micro display applications, which consists of Liquid Crystal on Silicon(LCoS) Spatial light modulator(SLM) micro display.

CC1080S is designed to be used in wide range of applications including virtual reality(VR), augmented reality(AR) and other projection displays. Its sharp Full High Definition(FHD) 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 8 pixels simultaneously to minimize power consumption without sacrificing the refresh rate to provide smooth and realistic motion pictures.



## Features

- FHD 1920x1080 resolution
- 120 frame per sec refresh rate
- Efficient IO placing for system integration
- Vivid colors with true black
- AR VR applications
- Horizontal and vertical image flipping
- Cost efficient system design
- Low power consumption

Parameter	Specification	Units
	CC1080S	
Pixel Matrix	1936 x 1096	Pixels
Active Matrix	1920 x 1080	Pixels
Active Matrix Area	8.19 x 4.61	mm
Display Size	0.37	in
Pixel Mirror / Pixel Pitch	4.07 / 4.3	um
Aperture Ratio	89.6	%
Dot Clock	125.0	MHz
Video Drive Method	Invert video every frame, 8 pixels per dot clock	