

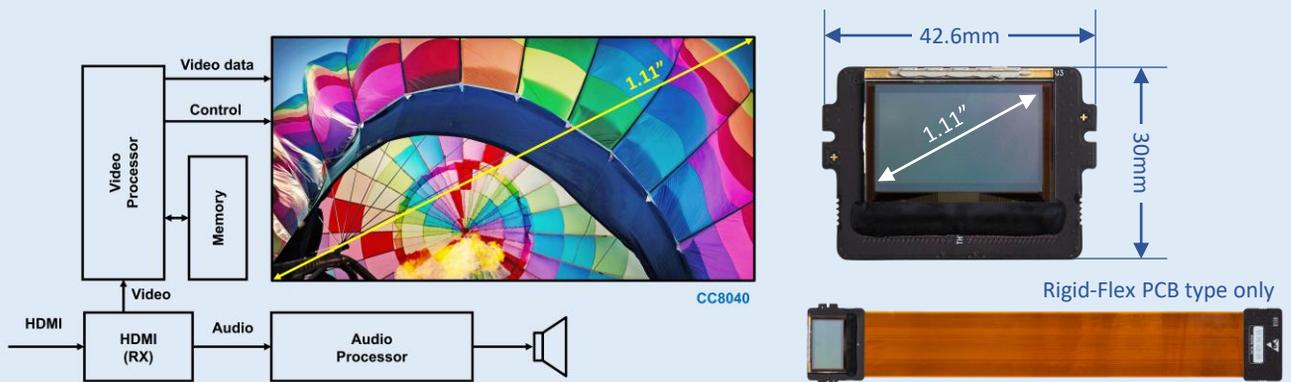
# CC8040 UHD LCoS SoC | 7680x4352 1.11"



CC8040 is a 7680x4352 pixel array based imager with Liquid Crystal on Silicon (LCoS) Spatial light modulator (SLM) micro display.

It is designed to be used in wide range of applications including virtual reality (VR), augmented reality (AR) and other projection displays. Its sharp 8K Ultra High Definition (UHD) resolution allows users to experience media in great details with vibrant colors at 120 frames per second (fps). CC8040 also has unique feature that displays vivid colors with true black for ultimate media experience.

Its highly efficient design utilizes loading of 128 pixels simultaneously to minimize power consumption without sacrificing the refresh rate to provide smooth and realistic motion pictures.



## Features

- UHD 7680x4352 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
	CC4040	
Pixel Matrix	7680 x 4352	Pixels
Active Matrix	7680 x 4320	Pixels
Active Matrix Area	24.58 x 13.82	mm
Display Size	1.11	in
Pixel Mirror / Pixel Pitch	2.97 / 3.20	um
Aperture Ratio	86.14	%
Dot Clock	150.0	MHz
Video Drive Method	Invert video every frame, 128 pixels per dot clock	