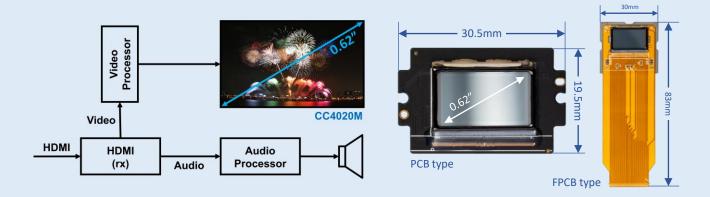
## CC4020M UHD LCoS SoC | 4096x2240 0.62"



CC4020M is a 4096x2240 pixel array based imager for micro display applications, which consists of Liquid Crystal on Silicon(LCoS) Spatial light modulator(SLM) micro display.

CC4020M 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). CC4020M also has unique feature that displays vivid colors with true black for ultimate media experience.

Its highly efficient design utilizes loading of 32 pixels simultaneously to minimize power consumption without sacrificing the refresh rate to provide smooth and realistic motion pictures.



## Features

- UHD 4096x2240 resolution
- 120 frame per sec refresh rate
- Efficient IO placing for system integration
- Vivid colors with true black
- AR VR applications

- 32 parallel pixels loading
- Compact input data interface
- Horizontal and vertical image flipping
- Cost efficient system design
- Low power consumption

| Parameter                  | Specification<br>CC4020M                             | — Units |
|----------------------------|--|---------|
| Pixel Matrix               | 4096 x 2240  | Pixels  |
| Active Matrix              | 3840 x 2160  | Pixels  |
| Active Matrix Area         | 13.82 x 7.78   | mm      |
| Display Size               | 0.62   | in      |
| Pixel Mirror / Pixel Pitch | 3.37 / 3.60  | um      |
| Aperture Ratio             | 87.63  | %       |
| Dot Clock                  | 125.0  | MHz     |
| Video Drive Method         | Invert video every frame,<br>32 pixels per dot clock |         |

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