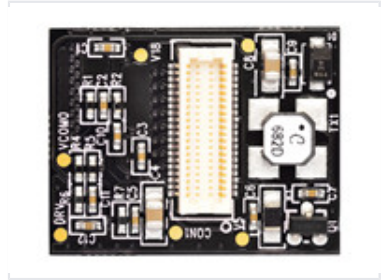


0.5-inch SVGA AMOLED Microdisplay

This 0.5-inch AMOLED microdisplay has a SVGA (800x600) resolution. It integrates full digital video signal processing and driver units on a silicon substrate, compatible with ITU-R BT.601/656 standard video formats.



Overview

High-Performance AMOLED Microdisplay

The SVGA050 is a versatile 0.5-inch AMOLED microdisplay offering a sharp SVGA (800x600) resolution. Built using 0.18µm CMOS technology, it integrates full digital video processing and driver units directly onto the silicon substrate. This compact module is designed for demanding near-to-eye applications, supporting flexible control over display parameters like brightness, contrast, and gamma correction.

Display Specifications

Display Size	0.5 inch
Resolution	800 x 600 (SVGA)
Available Color Modes	Full Color, Mono White, Mono Green, Mono Red

Technical Details

Video Signal Compatibility

- ITU-R BT.601
- ITU-R BT.656
- 8-bit video format
- 16-bit video format
- 24-bit video format

CMOS Technology	0.18µm
I/O Compatibility	1.8V - 3.3V CMOS

Control & Interface

Adjustable Parameters

- Display mode
- Direction
- Position
- Brightness
- Contrast
- R/G/B offset
- Gamma correction

Control Interface	2-wire serial interface
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Applications

Ideal Applications

Near-to-eye systems • Head-mounted displays • Projectors • Optical systems