

Features

- Syndiant architecture for improved power management and optical efficiency
- Single panel field sequential color Liquid Crystal On Silicon (LCOS) with digital drive
- 0.23" active display diagonal
- 720p (1280 x 720) array of mirrors (4.02µm pitch)
- Displays sequential colors up to 6 Color Fields per Frame (CF/F) with user programmable color field duration
- Panel illumination times greater than 95%
- Compatible with LED or Laser light source
- Up to 120 Hz frame rate
- Active alignment: 16 pixels in any direction

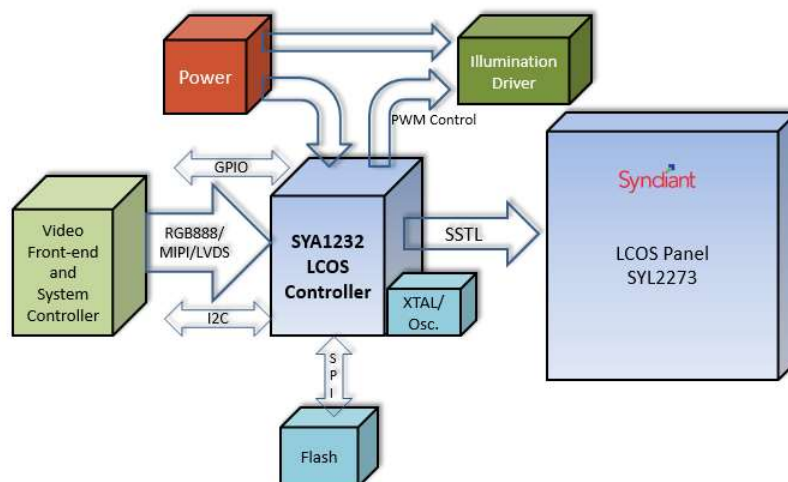
Example Applications

- Portable media players
- Digital cameras & camcorders
- Near-eye displays
- Gaming projectors
- Set-top boxes
- Laptops & Tablets
- Multi-media players
- Head-up displays (HUD)
- Digital signage
- 3-D projectors

Overview

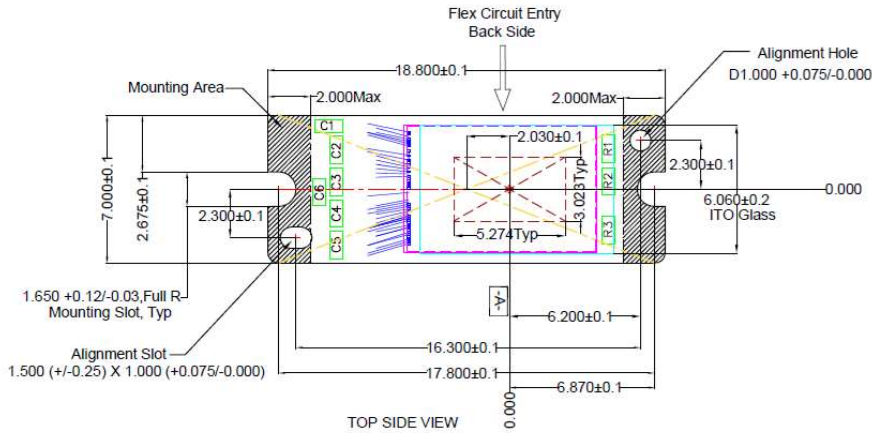
SYL2273 is a 0.23" 720p LCOS micro-display delivering HD resolution to ultra-portable and embedded projection display applications. For HMD the SYL2273 enables a large FOV (field of view) in a small form factor. This micro-display provides excellent image quality with the cost and power efficiency advantages inherent to Syndiant's entire LCOS product family. SYL2273 particularly meets low power requirements for battery operated handheld devices with HD performance differentiation for a diverse market.

System Block Diagram:

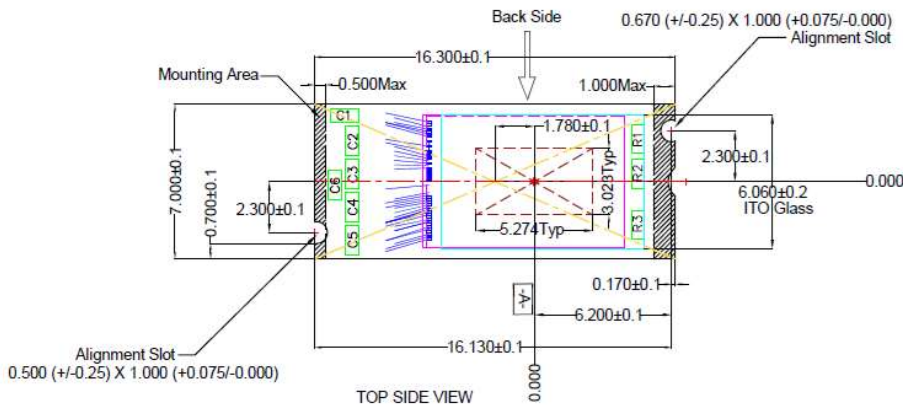


Preliminary Mechanical Specifications:

Chip on PCB package (42-2273-V0)



Chip on PCB package (42-2273-V0-S0)



Part Ordering Information:

The following table describes components that can be ordered from Syndiant related to this product:

| Ordering Part # | Description |
|--------------------------|---|
| Panel: | |
| 42-2273-V0 | SYL2273-V0, 720p, 0.23" display panel chip on PCB (18.8mm x 7mm) without an integrated light mask or compensator. |
| 42-2273-V0-S0 | SYL2273-V0-S0, 720p, 0.23" display panel chip on PCB (16.13mm x 7mm) without an integrated light mask or compensator. |
| ASIC: | |
| 22-1232-00 | SYA1232 LCOS Controller |
| Development Kits: | |
| 71-2216-01 | SYL2273 Basic Development Kit with 2 X 42-2273-V0 panels |
| 71-2216-02 | SYL2273 Development Kit with LED Projector Optical Engine |
| 71-2216-03 | SYL2273 Basic Development Kit with 2 X 42-2273-V0-S0 panels |

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