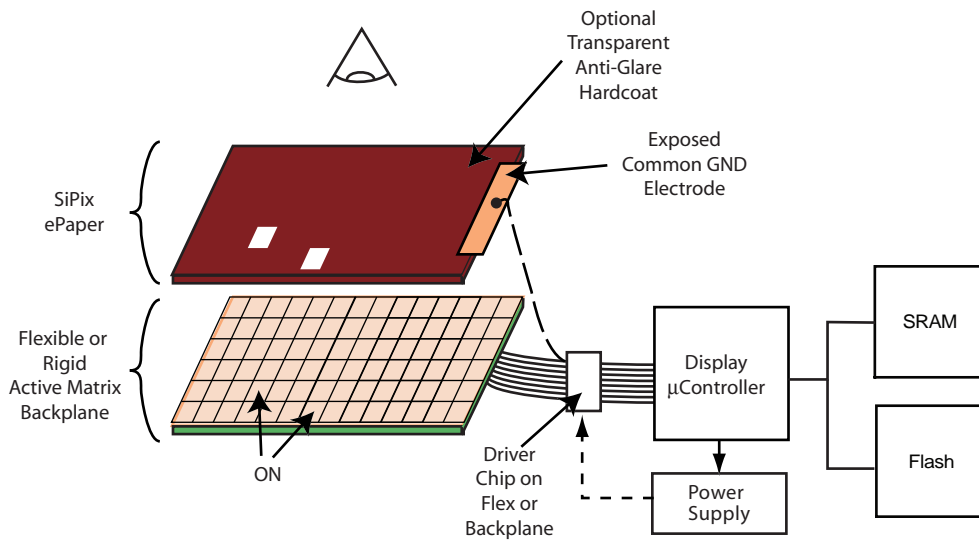


Active Matrix ePaper Displays

SiPix ePaper is used to create innovative active matrix displays for high resolution applications. Readable like paper, our material is visible in sunlight with nearly a 180 degree viewing angle. Ideal for your power budget, SiPix ePaper prolongs battery life, drawing power only when switching due to its bistable image characteristics. Custom shapes enlarge your possibilities. Multiple color sections may be designed on the same display.



Benefits

- Low power
- Resolution >300 dpi
- Thin & lightweight
- Large form factor
- Flexible
- Moisture resistant
- Multiple color options

Color Options

SiPix ePaper displays may be designed with either a solid saturated color or with regions of different color on the same display:

- **Solid Color:**
black, red, green, blue and gold
- **Sectional Color:**
black, red, green, or gold combinations
- **Contrasting Color:** white
- **Grayscale Capabilities:** 16-levels
- **No Color Filters Used**

Key Advantages

Paper-Like Readability

- Sunlight and non-uniform light visibility
- High reflectivity, superb contrast & resolution
- Viewing angle ~ 180°

Ultra-Low Power Consumption

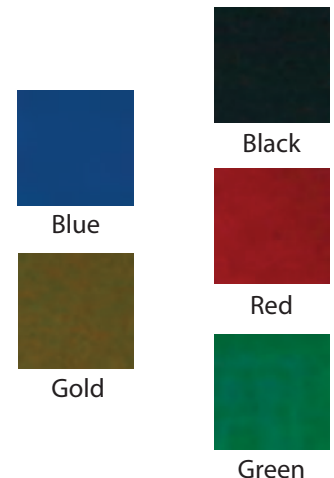
- Long-Term Bistable Image - content preserved without power
- Prolonged battery life

Wide Design Latitude

- Repeatedly flexible, bending radius < 1 cm
- Cuttable to large, unique shapes
- Thinner than 125 μm without backplane

Environmentally Robust

- Moisture and scratch resistant
- Pressure insensitive
- Impact resistant & user tolerant - no glass



SiPix ePaper Applications

Electronic Shelf Labels
Smart Cards
Instrument Displays
Medical Devices

Point of Purchase (POP) Signs
Public Information Signs
e-Books / e-Newspapers
e-Billboards

PDAs
Watches/Clocks
Calculators
Giftware

Board Games
Toys
Handheld Games
Fashion Apparel

Why SiPix?

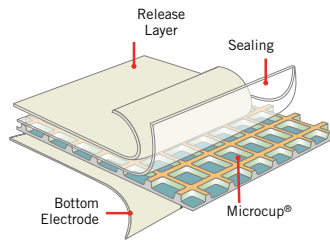
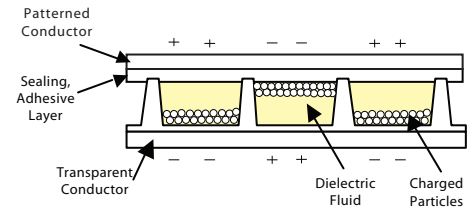
With SiPix ePaper, designers may now choose from multiple saturated color combinations, custom sizes, and material that will not break down with abuse or moisture.

We offer display module services to get you to the market quickly. Our established manufacturing line will give you economy and scale.

Choose SiPix as your ePaper partner and enjoy unrivaled insight into the world of paper-thin, readable displays.

Electrophoretic Displays

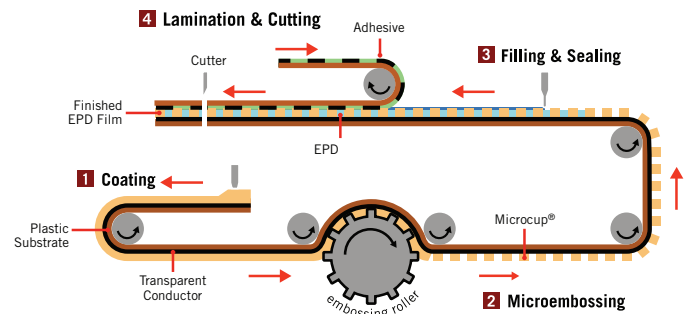
Introduced in 1969, Electrophoretic Displays (EPDs) are highly reflective. Under the influence of an applied electric field, charged white particles migrate through a colored dielectric to produce a display that reflects the color at the surface from either the particles or the dielectric. SiPix EPDs are known for their wide viewing angle, image bistability, and low power consumption.



The SiPix Microcup® structure allows for the thinnest and most flexible electronic display. The partition walls provide not only fine resolution but also excellent mechanical support for impact resistance. Each Microcup® is individually sealed, enabling the EPD film to be custom cut to desired shapes and sizes.

Roll-to-Roll Manufacturing

SiPix produces ePaper using a roll-to-roll process. On a continuous plastic substrate, our EPD material is created with coating, embossing, sealing and lamination processes. With the industry's first roll-to-roll production process for electronic paper films, we have the experience and scale to meet your high volume needs of display material that is reliable, extremely thin, and flexible.



SiPix Corporate Profile

SiPix Imaging, Inc. is a world leader in display innovation. With a roll-to-roll production facility in Fremont, California, the company manufactures flexible Electrophoretic Display material, cuttable to custom size. In Taiwan, a SiPix backend production facility provides multiple-application display modules for rapid system development. Manufacturing technology transfer is also available for increasing efficiencies in existing client production.

For more information, contact SiPix directly or go to the web at www.sipix.com.



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