

HY-LINE Technology Info

e-Paper

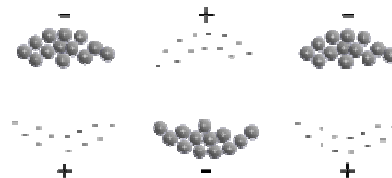


Key Features

- Bi-stable display - power needed for changes only
- High Contrast - similar to paper
- True Sunlight Readability - incoming light is used
- Flexible - manufactured on plastic substrate

Applications

- e-Readers
- Laptop sideviews
- SmartCards
- Specialized industrial design
- e-Signage
- Mobile phones
- Electronic dictionaries
- MP3 players
- PC accessories



Display Specification

Optical

- White State reflectivity: 30%(typ.)
- Contrast Ratio: 8:1 (typical)
- Viewing Angle: >70 degree
- Grayscale Capability: 2 bit
- Switching speed: 500ms
- Colors: Black & White

Mechanical / Dimensional

- Resolution: 800x600(SVGA)
- Pixel Pitch: 0.151(h)x0.153(v)
- Pixel Configuration: Rectangle
- Active Area: 90.6x122.4mm(6")
- Display Thickness: 1.5mm
- Display Weight : 35g
- Backlight :none

Environmental

- Operating Temp. Range: 0~50C
- Storage Temp. Range: -25~70C

Interface

- Supply Voltage: 3.0V

Development Support

- E-Book Reader Device Development Kit (Linux/ARM based)
- „Trinity“ Controller Board
- PVI 6001A Electrophoretic Display Controller LSI
- ED060SC3 6" EPD Module
- ED097OC1 9.7" EPD Module

Technology

Active Matrix [1] Electrophoretic [2] Display

- [1] Each element is controlled individually (like TFT)
- [2] Orientation of bipolar particles by application of an electric field

