

Active matrix monochrome ePaper displays.

Visual Performance

Display Type	Reflective Electrophoretic
Imaging Component	E Ink Pearl ePaper Display Film
Contrast Ratio	10:1 (min)
White State (L*)	70 (min)
Dark State (L*)	24 (max)
Color Resolution (# Bits)	1-Bit (B&W); 4-Bit (16 Gray Levels)
% Reflectance	40.7%
Viewing Angle	Near 180°
Image Update Time	120 msec (1 bit), 450 msec (4 bit)
Update Modes	Full & Partial Page Update, Pipelined

Module Drive Electronics

Switching Voltage	+/- 15 Volts
Drive Method	Active Matrix, TFT
Electronic Partners	Epson
	Texas Instruments
	Marvell
	Maxim Integrated
	Freescale Semiconductor

Module Environmental and Lifetime Characteristics

Operating Temp.	0 to 50°C
Storage Temp.	-25 to 70°C
Service Life	10 million switches or 5 years

Module Display System

Available Display Sizes	1.44 to 13.3 in
Display Modules	E Ink Mobius Flexible Display, as well as Glass TFT
Display Thickness	Approx 1.2mm, Depending on choice of TFT
Display Resolution	Capabilities up to 300 dpi for 4 bit Grayscale (sizes 9.7 in & below)

Benefits

- Superior Readability
- Rapid Page Turns
- Low Power Usage

E Ink Pearl displays are the market-leading ePaper solution for monochrome active matrix applications. E Ink Pearl is the industry choice for eReader devices. E Ink Pearl displays deliver high contrast ratio, paper-like viewing experience even in direct sunlight, with very low power consumption. E Ink Pearl is also an excellent display solution for mobile, healthcare, and large and small area signage products.

Applications

E Ink ePaper displays enable delivery of content to a wide range of surfaces and applications including:

- eReaders
- Mobile Devices (Smart Phones, Mobile Phone Cases)
- Electronic Shelf Labels
- Digital Signage (Large & Small Scale)
- Medical & Fitness Information Devices
- Wearable Electronic Devices

For additional information please contact sales@eink.com