

E INK SURF™
MONOCHROME SEGMENTED
ELECTRONIC PAPER DISPLAYS



SURF Visual Performance

Display Type	Reflective EPD
Imaging Component	E Ink Vizplex Imaging Film
Colors	Black, White
Contrast Ratio	7:1 (average)
Reflective	41% (average)
Image Stability	Bi Stable
Viewing Angle	Near 180 degrees
Image Update Time	240 - 400 milliseconds

Physical Characteristics

Thickness	< 650 um
Border	2.5 mm min. active to outer edge
Durability	Shatterproof

Power Requirements

Drive Voltage	15v typical or 5v optional	
Power Draw	Image Static	Zero
	Image Update	12 microwatts/cm ²

Electronic Control

Drive Method	Direct drive one line/segment
Driver Availability	Dialog Semiconductor
	Solomon Systech

Environmental Characteristics

Operating Temp. Range	-10 to 60 degrees Celsius
Storage Temp. Range	-25 to 70 degrees Celsius
Humidity Tolerance	90% RH @ 40° C for 240 Hrs

SURF BENEFITS:

Segmented
Ultra-Thin
Rugged
Flexible

SURF displays are ultra-low power, thin and rugged. E Ink's unique reflective display technology is sunlight readable and can display an image even with no power connected to it. This enables engineers and designers to add displays to products where power and space limitations have made it impossible to do so before.

Divided into discrete segments, SURF products can be controlled individually to convey information using letters, numbers and icons. Creative layouts enable overlapping images and unique fonts. The result is a black and white display with the readability of paper that is less than 650-microns thick.

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