



# **E-Paper displays**

Maximum performance with  
minimum power consumption





## Discover the impressive advantages of E-Paper technology

E-Paper displays are based on the principle of bistability, which means they only consume power when the image content changes. The technology is ideal for applications where image content remains static over long periods of time and does not need to be updated frequently. E-Paper displays are extremely energy-efficient and ideal for continuous operation.

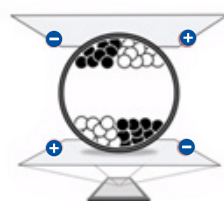
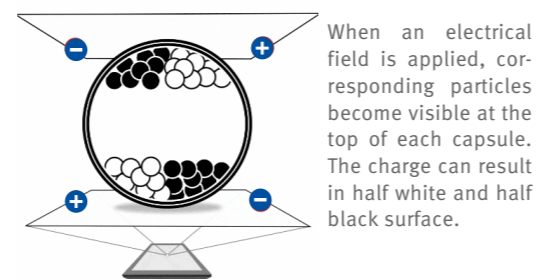
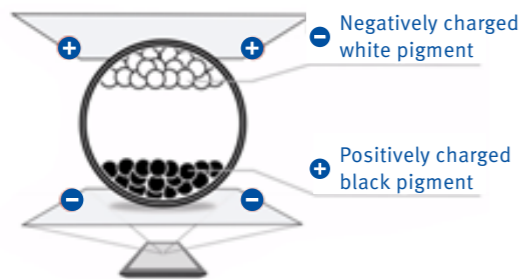
Another major advantage is that they are reflective displays and thus do not require additional lighting as long as ambient light is available. Even in direct sunlight outdoors, E-Paper displays offer impressive readability and an extremely wide viewing angle. These features make them an excellent choice for demanding applications in various fields.

### We offer numerous value-added options:

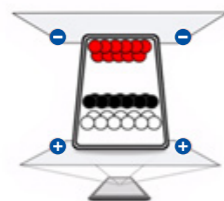
- > Front lighting options for applications that require additional brightness
- > Optical bonding to improve optical performance
- > PCAP solutions for simple and user-friendly operation
- > Customized driving solutions
- > Content management support
- > Individual integration concepts

## E-Paper display technology

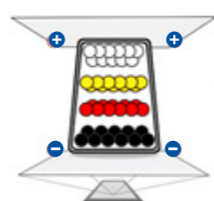
Electronic ink is made of millions of tiny micro-capsules. Each capsule contains charged black and white ink particles suspended in a clear fluid.



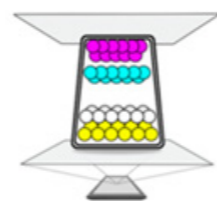
2 particle



3 particle



4 particle









Advanced Colour E-Paper (ACeP™)

## Product overview E-Paper portfolio

Diagonal	< 1" to 42"
Structure	Standard or flexible E-Paper
Colours	Monochrome, 3-, 4-, 7-colours up to full-colour (max. 65,000 colours)
Scope of services	E-Paper displays up to the finished monitor

## Advantages at a glance

 Sunlight readable	 easy on the eyes (compared to TFTs no light emission)	 always on
 Wide viewing angle	 Extremely low power consumption	 crispy images similar to printed paper

## Possible applications for E-Paper displays



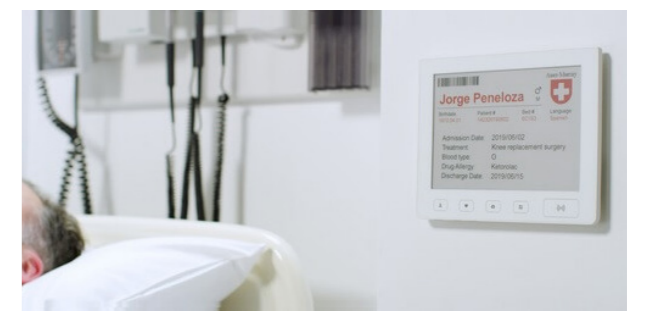
Smart Retail



Smart City & Signage



Smart Logistics, Factory & Office



Smart Hospital & Medical

### Future priorities:

- > Improved colours
- > Extended operating temperature range
- > Faster switching characteristics

DATA MODUL is looking to accompany you on the exciting journey in bringing E-Paper-Displays into many more applications.

For more information, contact your DATA MODUL sales partner or visit our website:  
[www.data-modul.com/en/products/distribution/displays/display-technologies/epaper-technology](http://www.data-modul.com/en/products/distribution/displays/display-technologies/epaper-technology)



# DATA MODUL



DISPLAY



TOUCH



EMBEDDED



SYSTEMS

As a leading expert in the field of industrial display, touch and embedded technologies we design, develop and manufacture tailor-made system solutions at the highest level.

**DATA MODUL AG**

Landsberger Str. 322, DE-80687 Munich, Phone: +49 89 56017 0

[www.data-modul.com](http://www.data-modul.com)