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 tiny micro-capsules. Each capsule contains charged black and white ink particles suspended in a clear fluid.

When an electrical field is applied, corresponding particles become visible at the top of each capsule. The charge can result in half white and half black surface.

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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
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.

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