Alcom electronics

ePaper advanced display products & system solutions

avalue Technology Inc.   yes Optoelectronics   Eink®
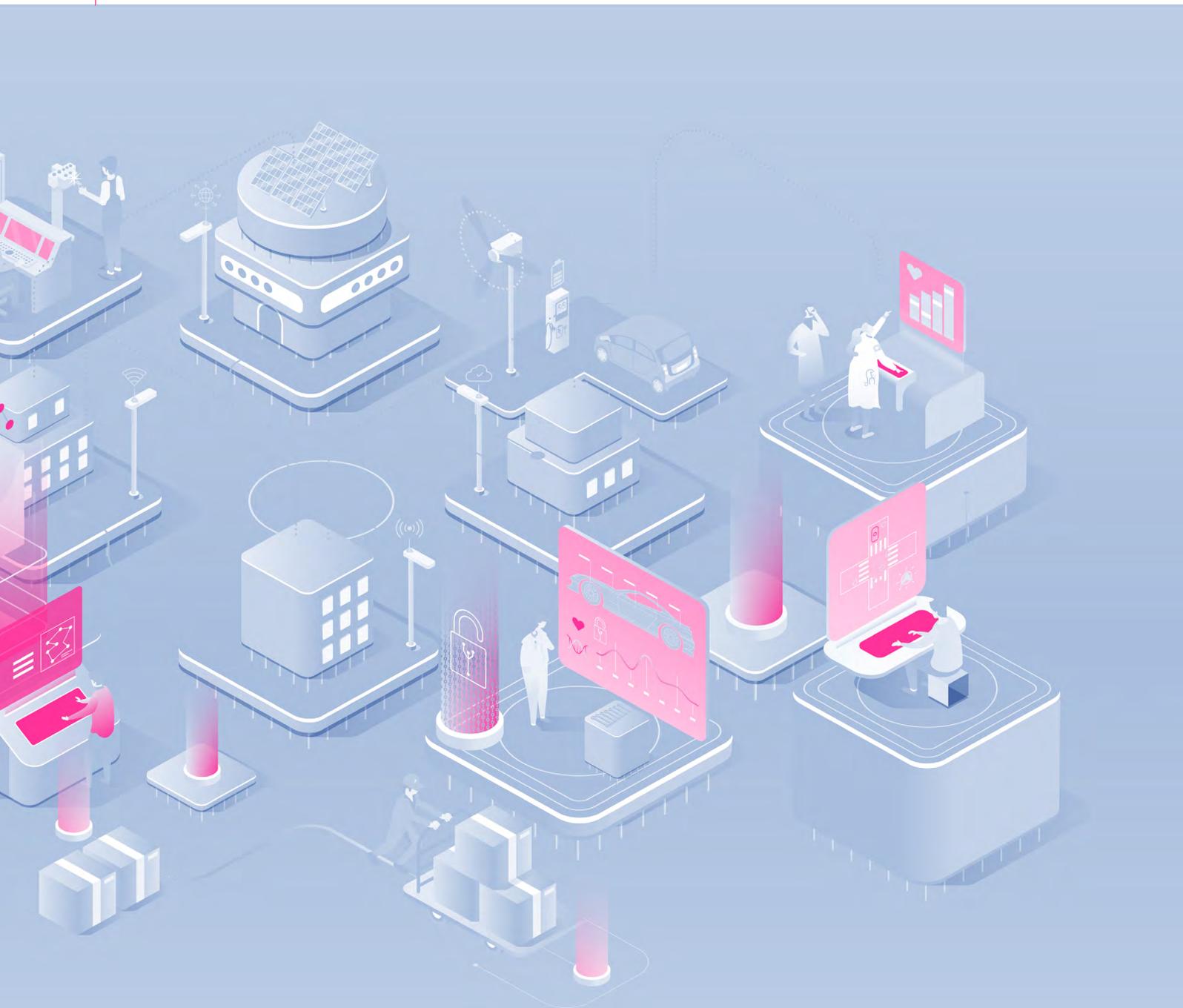
e-Paper Technology & Alcom

e-Paper is equipped with the benefits of Low Power Consumption, Paper-Like, Sunlight Readable, Shatter Proof, Always On, Easy on the Eyes, Wide Viewing Angle, and Light Weight. Alcom showcases standard and customized display products, Panel PC's based around E Ink technology- the pioneer and leader in this field. This includes Advanced Color ePaper, foldable ePaper, and battery-less solution, as well as ePaper and Panel PC applications in smart transportation, smart retail, smart healthcare, smart logistics, smart office and smart life.

Co-creation starts here

IDEA

DESIGN

TEST

DEMAND

PROTOTYPE

EOL

PRODUCTION

LOGISTICS
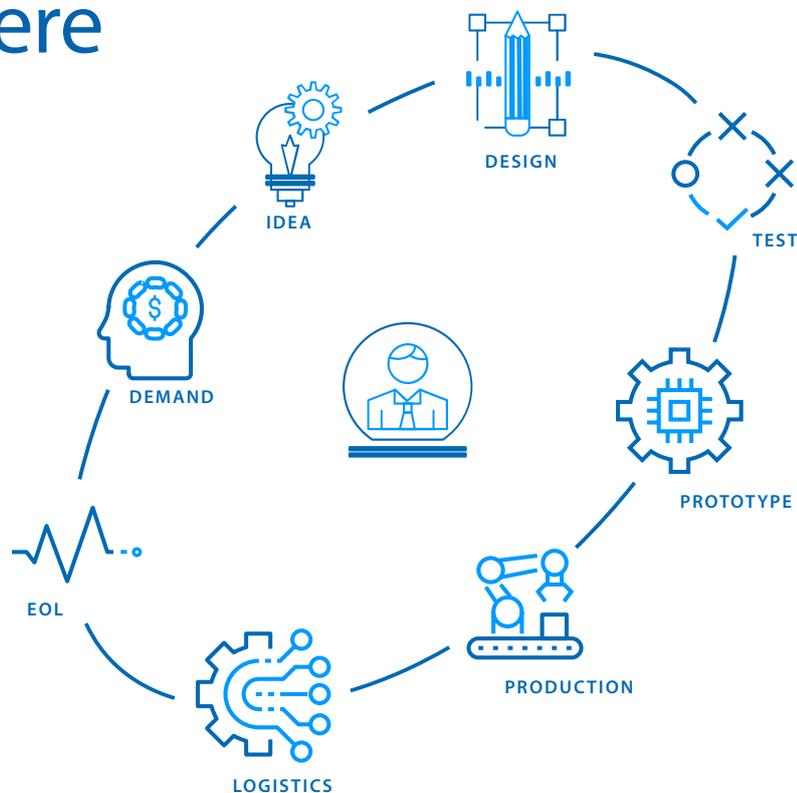
Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Markets

SMART RETAIL

SMART TRANSPORTATION

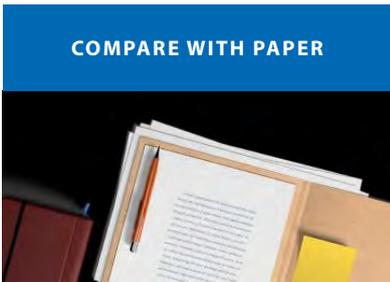

MOBILE/ WEARABLES

FLEXIBLE DISPLAY

SMART HOSPITAL

LICENSE PLATE

Digital Paper Display Solutions

COMPARE WITH PAPER

- Digitize Traditional Content & Auto Update
- Manage & Schedule via Backend Service
- Support Multiple Modes When Refresh The Screen
- Time Efficient & Labor Cost Saving
- Reusable

COMPARE WITH LCD

- Paper-like Reading Experience: No Backlight is needed
- Sunlight Readable
- Ultra-low Power Consumption
- Easy to Install & Implement
- Info Always On Even Removing Power Source

BENEFITS OF DIGITAL PAPER DISPLAY SOLUTIONS

- Eco-friendly
- No light pollution
- Adopt E Ink technology
- Digital workflow with mobility
- Energy saving
- Easy and low-cost installation
- Low Requirement for data bandwidth
- Gateway to communicate with HIS
- Displays inpatients information or status in real-time
- Low power consumption
- Show "always-on" information

Technology features

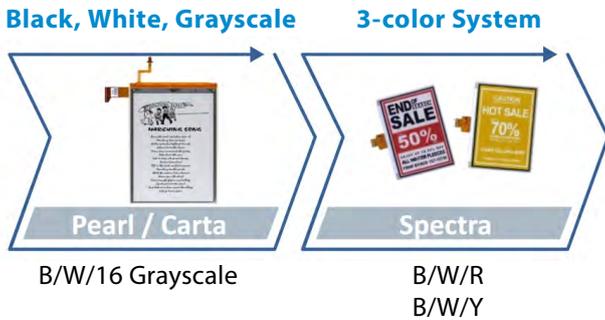Color | Pen writing | Wide view angle | Easy on the eyes | Low power consumption | Always on | Paper-like | Sunlight readable | Light-weight | Flexible | Shatter-proof

Product Overview

The Color Evolution

Black, White, Grayscale

Pearl / Carta

B/W/16 Grayscale

3-color System

Spectra

B/W/R
B/W/Y

E Ink Gallery™ (ACeP)

Vivid

E Ink Spectra™ 3100 (Four Color)

Warm Colors & Highly saturated

Soft & Tender Speed

E Ink Kaleido™ Plus (Print Color)

Born For Sustainability

Replace

Reuse

Reduce Once-off Paper Use

Low Power Consumption

Easy on the Eyes

Sunlight Readable

Low Power Consumption

Always On

7 AFFORDABLE AND CLEAN ENERGY

Born for sustainable development

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

Green manufacturing

Improve electricity efficiency

3 GOOD HEALTH AND WELL-BEING

Smart ealthcare

4 QUALITY EDUCATION

Smart Education

11 SUSTAINABLE CITIES AND COMMUNITIES

Sustainable smart city

13 CLIMATE ACTION

Reduce the impact of climate change

Off-grid emergency indicators

The Trend of E Ink Technology

Flexible Technology
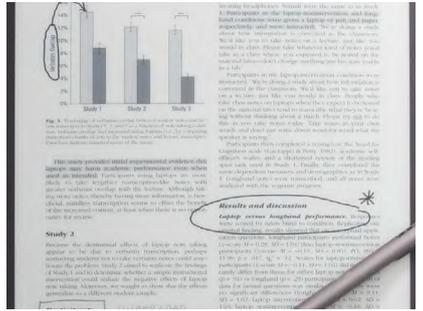
Color Technology

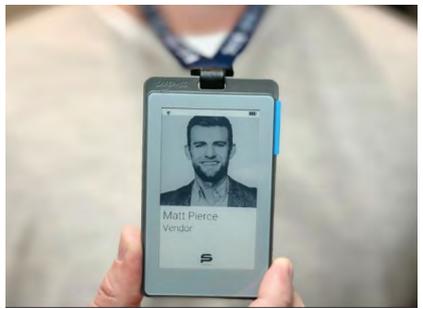**NFC UHF**

Ultra Low Power Battery free

FW T-con & eCo-system

Focused Market Segments
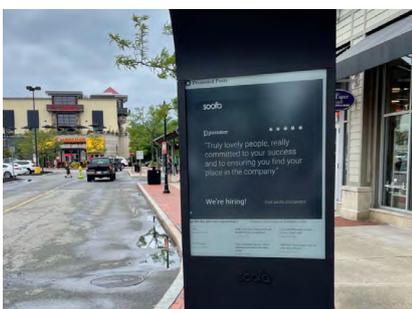
e-Paper in Smart education & Smart Office

e-Paper in Smart Retail & Smart Identification

e-Paper in Smart Hospital and Healthcare

e-Paper in Smart City & transportation

New product releases

WHY AND WHERE TO USE E-PAPER DISPLAYS AND SYSTEMS?

E Ink's product lines includes black and white, tri-color and full-color displays in a large range of sizes, inclusive of 1.1 to 42 inches. Due to E Ink's unique, bi-stable technology, all of the displays are extremely power efficient, enabling applications where power may not be readily available, or where battery sizes must be extremely small.

SEGMENT AND MATRIX E-PAPER

As an E-Ink certified module developer, YES Optoelectronics manufactures custom segment e-papers with glass, flexible or PCB substrate. Two and three color matrix e-paper available as standard or semi-custom version.
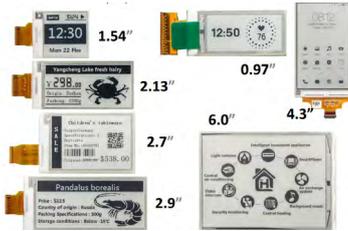
ELECTRONIC PAPER DISPLAY PANEL PC

Avalue's EPD Series Electronic Paper Display panel PCs based on Intel® Celeron® N3350 Processor that is designed for "PUBLIC INFORMATION DISPLAYS" (Digital Signage) in various application and scenario. High performance and extremely low power consumption compared to conventional display technologies and multiple OS support design with Android and Windows EPD Series are ideal solution for informing scenario like Public Transportation, Indoor Large Area Signage.

42" AS IDEAL DISPLAY FOR HOSPITAL, HEALTHCARE AND OUTDOOR APPLICATIONS

The 42" e-Paper from Avalue is the perfect display for all smart devices. For example in an hospital environment, the reflective e-Paper display doesn't emit light to disturb patients. This display is also good for outdoor applications.

MORE COLOR E-PAPER APPLICATIONS IN OUR SMART LIVES

E-Ink offers 3 types of color displays Gallery, kaleido & Spectra 3100. E-Ink Gallery offers color-poster like viewing experience for public mission displays and commercial advertising signage including digital ID cards for visitor management solutions. E-Ink Kaleido offers 3x saturated colours compared to previous generations. E-Ink Spectra 3100 4 color display is another breakthrough now implementing black, white, red and yellow also coming with higher resolution than its predecessor.

BROCHURES DESCRIBING E-PAPER IN SMART TRANSPORTATION, OUTDOOR, VENDOR, SIGNAGE APPLICATIONS

An overview of how E Ink can enable more efficient communication with Digital Paper products in the healthcare and hospital environment, product designers who are looking to incorporate a low power display into their glucose meter device, cities to implement Emergency Signage to communicate with their citizens and Smart signage.

Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	**WIRELESS EMBEDDED CONNECTIVITY & SENSORS**	**WIRELESS & INDUSTRIAL CONTROLS NETWORKING**	**DISPLAY & TOUCH**
LED & SOLID STATE LIGHTING	**POWER & EMC**	**RUGGED MOBILE COMPUTING**	**EMBEDDED SYSTEMS, AI & EDGE COMPUTING**

- Semiconductors
- Frequency & timing
- Power management
- Circuit protection & discretes
- Magnetics
- Passives & electromechanical
- Connectors & cable assemblies
- Photonics

- Wireless modules
- Antenna's
- Sensors

- Routers & gateways
- Wireless embedded computers
- Industrial ethernet and IP variations
- Wired & wireless machine networking
- Antenna's
- Device to cloud solutions
- Connectivity & remote management services
- Networking & connectivity

- Displays
- Touch screens
- Optical bonding
- Total display solutions

- LED light sources
- Optics
- Thermal management
- Power & intelligent controls
- LED modules

- AC/DC power supplies
- DC/DC converters
- Power management modules
- Wireless charging
- E-mobility solutions
- Transformers & power inductors
- UPS
- EMC filters

- Tablets
- PDA's
- Vehicle mount computers
- Accessories

- Computer-on-modules
- Embedded boards
- Industrial PC & automation
- System integration

Bridging the gap between technology, people and business with a human interface.

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Get to
know us

ALCOM PROVIDES THE WORLD'S MOST AD-VANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

SEPTEMBER 2021