



E-Paper Display Solutions

Key Highlight

- Paper-like, glare-free display with excellent sunlight readability
- Ultra-low power operation for long battery life
- Bistable display retains content without power
- Custom design and integration support for diverse applications

Production Information

Keetronics E-Paper Display Solutions are designed to deliver clear, paper-like visibility with extremely low power consumption, making them ideal for products that demand long battery life and reliable outdoor performance.

E-Paper, or Electronic Paper Display technology, reflects ambient light instead of emitting it. This results in exceptional readability even in direct sunlight, high contrast text, and an eye-friendly viewing experience without backlight or blue-light emission. The display remains stable without power until the content changes, significantly reducing energy usage.

Our E-Paper solutions are well suited for applications such as e-readers, electronic shelf labels, wearables, industrial instruments, and IoT devices operating in harsh or outdoor environments. With thin, lightweight, and flexible display options available, E-Paper technology enables compact and durable product designs.

Keetronics offers complete development support, including custom controller card design, driver circuitry, interface software, and seamless hardware-software integration tailored to specific application needs.



Technical Specifications

Type	Electronic Paper Display (E-Paper)
Display Mode	Reflective, bistable (non-volatile)
Power Usage	Ultra-low
Power Required	Only during display refresh
Sunlight Readability	Excellent
Contrast	High contrast with sharp text
Viewing Angle	Wide, near-360° visibility
Backlight	Not required
Full Refresh Time	Approx. 0.5 to 2 seconds
Partial Refresh	Supported (application dependent)
Form Factor	Thin and lightweight
Substrate Options	Rigid and flexible displays available
Development & Integration	Custom controller card development E-Paper driver circuit design Interface software programming End-to-end hardware–software integration