

## Sharp's New 64-color Memory LCD is Perfect for Wearable Product Designs

**VANCOUVER, Wash. – Oct. 11, 2022**—Today, Sharp Electronics Corporation, Device Division (SECD) unveiled its new 2.13-inch Class (diagonal) color Memory in Pixel (MIP) LCD module. The display (LS021B7DD02) delivers static or moving images in QVGA resolution and 64 colors, making it perfect for various wearable and handheld products.

The new display features ultra-low power consumption of 32  $\mu$ W (Typ.) for static images and 45 $\mu$ W (Typ.) during 1Hz updates. This savings of power increases time between recharges for small products with a battery. It also enables designers to meet the demand for always-on devices that show a full array of data at a glance without the need to “fire up” the device.

The 2.13-inch LCD renders color at 18% NTSC and is 9.0% reflective, which makes images pop even in direct sunlight or high ambient lighting scenarios. The QVGA display delivers smooth graphics/animations and is capable of displaying 18FPS content, unlike many cholesteric, electrophoretic, and other bi-stable, “e-ink” type displays.

### Memory LCD Technology

Sharp helped pioneer LCDs for the wearable market, introducing its first Memory LCD monochrome graphic displays in 2009. Memory LCDs feature embedded 1-bit memory in each pixel, which results in minimal power usage from the display's single supply, even while updating images. A lightweight, thin two-glass design, monolithic driver circuitry and 6-bit parallel I/F connectivity, ease the design process.

### Sharp's Memory LCD Suite

In addition to the new 2.13-inch Color Memory LCD, [Sharp's Memory LCD line-up](#) includes the following Class sizes (diagonal): 1.08-inch, 1.19-inch, 1.26-inch, 1.28-inch, 1.39-inch, 1.80-inch, 2.70-inch, 3.16-inch and 4.40-inch. Customers benefit from U.S.-based service and support in every region.

### Availability and Pricing

Reach out to your local Sharp Representative or Distributor for sample parts and pricing.

### About Sharp Electronics Corporation, Device Division

Sharp Electronics Corporation, Device Division (SECD) drives innovative LCD components to market. The world's leading manufacturers of consumer and business technologies look to Sharp for the products, expertise, and worldwide support they need to make their visions a reality. For more information, visit us at [www.SHARPSECD.com](http://www.SHARPSECD.com).

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