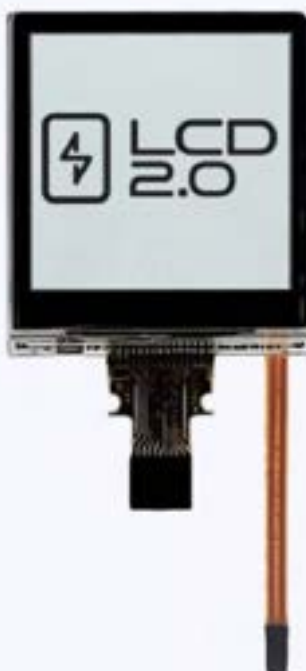


Overview

LCD 2.0 can be used seamlessly in any lighting condition: from dark spaces to bright, direct sunlight. Sharp's reflective, MIP LCD technology enables Azumo's patented lightguide technology to deliver high quality images with ultra-low power consumption, extending the battery life of your device. The active matrix MIP LCD integrated with a highly efficient front light offers a superior user experience for a variety of applications where outdated, static HMI no longer suffices.

- ✓ **Less power** compared to a backlit LCD
- ✓ SPI interface for **simple connectivity**
- ✓ **Sufficient brightness** as low as 6 mW
- ✓ **Intrinsically safe** with wide temperature range
- ✓ 0.05mm thick, Azumo film is over **5x thinner** than alternative light guides
- ✓ Superior **readability** in all lighting conditions
- ✓ Active matrix MIP LCD enables **dynamic menu-driven, multi page HMI**



[View Mechanical Drawing](#)

Sharp Display P/N	LS013B7DH03
Resolution	128 (H) x 128 (V)
Active Area	23.04 mm (H) x 23.04 mm (V)
PPI	141
Display Colors	B&W
Product Outline	27.46 mm (W) x 30.3 mm (H)
Display Thickness	1.16 mm
Display Power Consumption (Static Image)	12 μW
Display Power Consumption (1 Hz Update)	50 μW
Display Power Supply Voltage	3.0V (Analog) & 3.0V (Logic)
Response Time, Rise + Fall	10 + 20 ms
Interface	SPI
Front Light Power Supply Voltage	3.0 V
Front Light Power Consumption	6-75 mW
Front Light Brightness, Typ	51 nits @ 60 mW
Contrast Ratio - Native LCD	18
Viewing Angle - Native LCD	60/60° (H) & 60/60° (V)
Storage temperature (C°)	-30°C ~ 80°C
Operating temperature (C°)	-20°C ~ 70°C