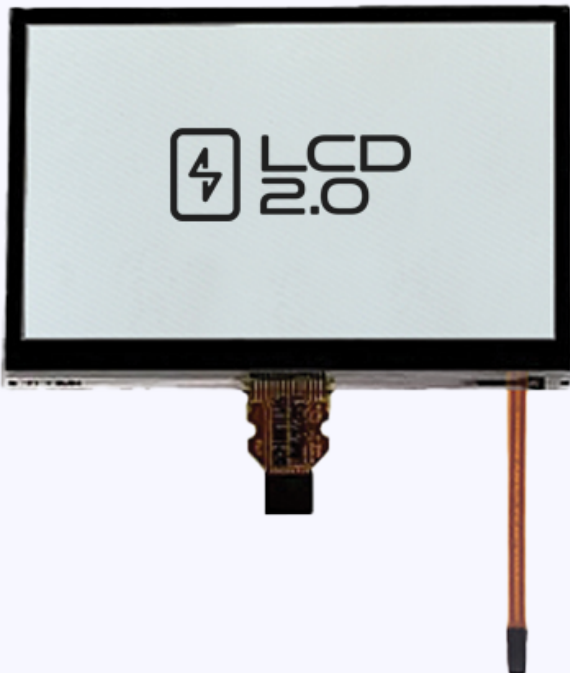


## Overview

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 an RGB front light provides more options for user customization and/or enhanced HMI via multiple colored front light illumination.

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



Sharp Display P/N	LS027B7DH01
Resolution	400 x 240
Active Area	58.8 mm x 35.28 mm
PPI	173
Display Colors	B & W
Outline	62.8 x 42.82 x 1.64
Display Thickness	1.91 mm
Display Power Consumption (Static Image)	50 $\mu$ W
Display Power Supply Voltage	5.0V (Analog) & 5.0V (Digital)
Response Time, Rise + Fall	10 + 20 ms
Interface	SPI
Front Light Power Supply Voltage	3.0V
Front Light Power Consumption	6 - 225 mW
Front Light Brightness, Typ	-
Contrast Ratio - Native LCD	14
Viewing Angle - Native LCD	55/55° (H) & 60/60° (V)
Storage temperature (C°)	-30°C ~ 80°C
Operating temperature (C°)	-20°C ~ 70°C

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**\*Latest update: 12/20/2023**

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